

MINUTES OF

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

05704

JANUARY 27, 1983

I. CALL TO ORDER

The special meeting of the State Board of Technical Registration, held in Room 140 of the Occupational Licensing Building, 1645 W. Jefferson, Phoenix, Arizona was called to order by Chairman Jimmie Nunn at 9:15 a.m.

PRESENT: Jimmie R. Nunn, Chairman
Paul Cella, Member
Hector C. Durand, Member
Charles E. O'Bannon, Member
Robin Morris, Member

ABSENT: John Riggs, Vice-Chairman
Silas C. Brown, Secretary

II. EXECUTIVE SESSION: It was moved by Mr. Durand and seconded by Mr. Cella, that the Board convene in Executive Session. MOTION CARRIED. At the conclusion of the Executive Session, the Board reconvened in Open Session.

III. ENFORCEMENT

- A. C79-86 BTR vs. George Carlson
It was moved by Mr. Durand and seconded by Mr. Cella that a Notice of Violation be sent to the respondent, the case be closed and any future violations be sent to the proper prosecuting authority. MOTION CARRIED
- B. C80-63 BTR vs. David W. Turner
It was moved by Mr. Durand and seconded by Dr. O'Bannon that the case be closed. MOTION CARRIED.
- C. C81-29 BTR vs. Don Dew
It was moved by Mr. Durand and seconded by Mr. Cella that a Notice of Violation be sent to the respondent, the case be closed, and any future violations be sent to the proper prosecuting authority. MOTION CARRIED.

IV. EVALUATION COMMITTEES' REPORTS AND ADOPTION OF REPORTS

A. Tucson Evaluation Committee Report:

It was moved by Mr. Cella and seconded by Dr. O'Bannon that the Architecture applicants Bjorum through Tonkin as shown on page 5707 be recommended for registration. MOTION CARRIED.

It was moved by Mr. Cella and seconded by Dr. O'Bannon that the Electrical Engineers Grachan through Moore as shown on page 5707 be recommended for registration. MOTION CARRIED

It was moved by Mr. Cella and seconded by Dr. O'Bannon that the Mechanical Engineers Canelli through Tuttle be recommended for registration as shown on page 5708. MOTION CARRIED.

It was moved by Mr. Cella and seconded by Dr. O'Bannon that the following applicants Civil Engineers - Despain through Vendevelde; Electrical Engineers through Bailey through Kleyman; Mechanical Engineers - Cook through Trischan be held for examinations as indicated on pages 5708. MOTION CARRIED

It was moved by Mr. Cella and seconded by Dr. O'Bannon that the following applicants need to clarify their experience as shown on page 5709, Davis through Howell. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Durand that the Architecture applicants Altoon through Eyck as shown on page 5710 be recommended for registration. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Durand that the Landscape Architects Barber through Winston as shown on page 5710 be recommended for registration. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Durand that the Civil Engineer applicants Bishop through Southgate as shown on page 5710 be recommended for registration. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Durand that the Electrical Engineer applicants Church through Vadeca as shown on page 5710 be recommended for registration. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Durand that the Mechanical Engineers Fledderjohn through Luff as shown on page 5710 be recommended for registration. MOTION CARRIED.

It was moved that the Sanitary Engineer, Mr. Green as shown on page 5710 be recommended for registration. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Durand that the Structural Engineers Campbell through Williams as shown on page 5711 be recommended for registration. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Durand that the Land Surveyors Butcher through Steck as shown on page 5711 be recommended for registration. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Durand that the Geologists Bemis and Reynolds as shown on page 5711 be recommended for registration. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Cella that the following applicants be held for examination as shown on pages 5711-5713.

Architects - Cooke through Vernosky; Chemical Engineers - Maxwell and Van Soest; Civil Engineers - Alexander through Voigt; Mechanical Engineers Lucken through Yates; Mining Engineers - Iles and Osborne; Sanitary Engineers Grosvenor; Structural Engineers - Hamilton through Turner; Geologists - Van Boeck and Wilt. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Durand that the following applicants be denied for lack of experience as shown on page 5713. Moeller through House. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Durand that Mr. Stevens be denied for failure to meet the requirements of the Board. MOTION CARRIED.

V.

CERTIFICATION OF EXAMINATION RESULTS
It was moved by Dr. O'Bannon and seconded by Mr. Durand that the applicants listed on pages 5714-5719 be certified for examination results as listed. Anderson through Dodds. MOTION CARRIED.

VI.

GRANTING OF REGISTRATION

It was moved by Dr. O'Bannon and seconded by Mr. Durand that the applicants shown on pages 5720-5722 be granted professional registration. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Durand that the in-training applicants listed on pages 5723 be granted in-training certification. MOTION CARRIED.

VII.

PUBLIC COMMENT:

Mr. Wineburger - Attorney representing Mr. Culp asked the Board if any test results for Land Surveyors have been received. He also wanted to know if the

Board was satisfied with the declaratory judgement. The Board informed him that the results were not in but as soon as they were a special Board meeting would be called. Mr. Sheets informed Mr. Wineburger that both sides have filed a petition at the Court of Appeals.

III. EXECUTIVE DIRECTOR'S REPORT

- A. Legislative Report - Ms. Ross reported that our housekeeping bill has been introduced in the Community and Commerce Committee. It will go from there to the floor and get a number. Senator Steiner is chairing this committee.

Senate Bill 1086 is scheduled for its first hearing Friday, January 28, 1983. It probably has a very good chance to go. It will change our agency from a 90-10 agency to an 80-20 agency. Ms. Ross stated that we would not be getting anything from this and will lose everything; if this goes thru we will stand to lose our reserve money and therefore will go dead in the water.

B. Budget Report

Ms. Ross stated that at the present time we are losing money with our current fee structure. She stated that she has submitted a budget request for a word processor. She also stated that we would need \$20,000 more in lump sum and \$20,000 to \$25,000 for the next Architecture examination. We have no clear idea what the new examination is going to cost and at the present time we are losing money each time we have an examination. She explained what we charge the applicant and what we have to pay out.

- C. Proposed Rules Ms. Ross discussed her progress on the rules and asked for some clarification regarding certain areas. She stated that she hoped to be sending the final corrected copy to Mr. Sheet's office the following week.

- D. Enforcement Report - Mr. Dalrymple reported on enforcement for this month. We started with 35 cases and received 7 more cases for a total of 42 cases at the end of the month. We had 57 miscellaneous activity reports pending at the beginning and closed 7 for a total of 50 pending at the end of the month.

X. NEW BUSINESS

- A. Registration of Hydrologists - Mr. Jim Lemmon a GIT who is working for the Health Department as a Hydrologist discussed the problems they are facing with people working and claiming to be hydrologists. He was requested to get some specific facts regarding hydrologists and registration in other states; problems in this state, etc.
- B. Future Board and Committee Meetings - The March Board meeting will be at the University of Arizona for March 18th. We will need to have a meeting before that time for the engineering examination results. The June meeting will be the first Friday in June.

X. ADJOURNMENT

It was moved by Dr. O'Bannon and seconded by Mr. Cella to adjourn the meeting. MOTION CARRIED.

TO: Board of Technical Registration

FROM: Tucson Evaluation Committee
 Chairman, Palmer
 Members, Cella, Durand, Riggs

SUBJECT: Evaluation of Applicants, January Meeting

The Tucson Committee reviewed the following applicants and makes to the Board the recommendations shown regarding registration in Arizona.

- The following applicants, having satisfied the Committee that they are fully qualified to received registration in Arizona under A.R.S. 32-122.01 and A.R.S. 32-126, are hereby recommended for registration:

ARCHITECTS

Bjorum, Larry K. 82-879
 Brown, Stephen A. 82-694
 Lum, Alvin C. 82-743
 Sorenson, Larry R. 82-806
 Thomson, John D. 82-867
 Tonkin, Leslie V. 82-925

CIVIL ENGINEERS

Barnes, Dennis D. 82-835
 Bayar, Demirtas C. 82-778
 Befort, Wayne 82-585
 Cooper, Fredrick C. 82-726
 Curry, Scott D. 82-889
 Curtis, Thomas E. 82-898
 Davis, Thomas E. 82-931
 Dentz, Ro-ert N. 82-498
 Eid, Ronald J. 82-937
 Ensign, Timothy T. 82-902
 Givens, Raymond L. 82-462
 Hampton, Laurence R. 82-740
 Hespeler, William D. 82-618
 Hopper, Thomas E. 82-866
 Howell, Richard W. 82-840
 Hymans, Nelson 82-608
 Johnson, Robert I. 82-974

CIVIL ENGINEERS

Joshlin, Richard S. 82-690
 Knittel, John A. 82-856
 Leckband, Susanne 82-916
 Meier, Wellington R. 82-573
 Michael, Ralph 82-886
 Ozibko, Robert L. 82-712
 Riehl, Ben J. 82-888
 Ruzak, Edward J. 82-402
 Stevens, Michael L. 82-875
 Summers, Curtis D. 82-950
 Tonkinson, Philip C. 82-851
 Toy, Douglas K. 82-744
 Upchurch, Jonathan E. 82-754
 Wong, Philip 82-850

ELECTRICAL ENGINEERS

Grachan, Kenneth M. 82-731
 Hartung, John W. 82-449
 Leake, Harvey C. 82-859
 Lee, William G. 81-789
 Moore, Lawrence J. 82-845

MECHANICAL ENGINEERS

| | | |
|----------------------|--------|--|
| Canelli, William J. | 82-564 | |
| Denio, Galen D. | 82-946 | |
| Jast, Mark A. | 82-486 | |
| Korzeniowski, Edward | 82-543 | |
| Logue, James L. | 82-908 | |
| Luff, Gene S. | 82-822 | |
| Mudd, Daniel H. | 82-904 | |
| Robinson, Stephen C. | 82-795 | |
| Tuttle, Bryce N. | 82-711 | |

2. The following applicants were evaluated by the Committee and it is recommended to the Board that these individuals be held for examinations as indicated:

CIVIL ENGINEERS

| | | |
|---------------------|--------|--------------|
| Despain, Ronald A. | 82-975 | Part 3 and 4 |
| Larson, Ned | 82-852 | Part 3 and 4 |
| Pina, Raul | 82-865 | Part 3 and 4 |
| Riddle, Jeffrey | 82-837 | Part 3 and 4 |
| Vandavelde, Michael | 82-576 | Part 3 and 4 |

ELECTRICAL ENGINEERS

| | | |
|------------------|--------|-------------------|
| Bailey, Clifford | 82-977 | Part 3 and 4 |
| Crabb, David | 82-939 | Part 3 and 4 |
| Cunning, Raymond | 82-776 | Part 1,2,3, and 4 |
| Kleyman, Grigory | 82-872 | Part 3 and 4 |

MECHANICAL ENGINEERS

| | | |
|----------------|--------|-------------------|
| Cook, Arthur | 82-776 | Part 3 and 4 |
| Doyle, Dennis | 82-814 | Part 3 and 4 |
| Muir, Martin | 82-897 | Part 3 and 4 |
| West, Edward | 82-877 | Part 3 and 4 |
| Trischan, John | 82-777 | Part 1,2,3, and 4 |

3. The following applicants need to clarify their experience, by giving a detail breakdown of the time spent in the field of their choice.

| | | |
|-------------------|--------------|--------|
| Davis, Allen | (Electrical) | 82-505 |
| Howell, David | (Electrical) | 82-919 |
| Peter, Herbert | (Electrical) | 82-680 |
| Whalen, Robert | (Electrical) | 82-717 |
| Deshmukh, Prakash | (Mechanical) | 82-664 |
| Fish, William | (Mechanical) | 82-809 |
| Howell, David | (Mechanical) | 82-841 |

ARCHITECTS

| | |
|----------------------|--------|
| Alfonso, Ronald A. | 82-879 |
| Brown, Nelson M. | 82-895 |
| Flockiger, Arnold B. | 82-754 |
| Lee, Edward J. | 82-834 |
| Reimer, Lloyd A. | 82-873 |
| Robbins, George D. | 82-943 |
| Johnson, Bruce D. | 82-880 |
| Johnson, Faye C. | 82-724 |
| Rob, Francis | 82-870 |
| Rubin, Edward D. | 82-887 |
| Santa, Marie T. | 82-811 |
| Van Dyck, John | 82-826 |

LANDSCAPE ARCHITECTS

| | |
|---------------------|--------|
| Berney, John P. | 82-615 |
| Stewart, Pamela A. | 82-996 |
| Wheaton, Jeffrey T. | 82-906 |

CIVIL ENGINEERS

| | |
|--------------------|--------|
| Wilson, Stephen L. | 82-647 |
| Wenzler, Neil R. | 82-005 |
| Wynn, David R. | 82-750 |
| Wyles, David S. | 82-979 |
| Wright, John A. | 82-935 |
| Yantis, Don H. | 82-275 |

CIVIL ENGINEERS

| | |
|----------------------|--------|
| Frey, William L. | 82-932 |
| Kauf, Vinod | 82-670 |
| Lang, Larry W. | 82-752 |
| McNew, Jerry L. | 82-852 |
| Moore, Edgar T. | 82-755 |
| Parrish, Daniel M. | 82-831 |
| Palice, Frank B. | 82-542 |
| Singh, Hardip | 82-718 |
| Southgate, Thomas F. | 82-940 |

ELECTRICAL ENGINEERS

| | |
|--------------------------|--------|
| Church, Gary D. | 82-812 |
| Deke, Ollig K. | 82-867 |
| Scarcell, Dennis M. | 82-911 |
| Vedecha, Vipinchandra D. | 82-443 |

MECHANICAL ENGINEERS

| | |
|-----------------------|--------|
| Fledderjoh, Thomas A. | 82-385 |
| Harris, Floyd T. | 82-126 |
| Luff, Gene S. | 82-822 |

SANITARY ENGINEER

| | |
|--------------|--------|
| Green, James | 82-288 |
|--------------|--------|

TO: Board of Technical Registration

FROM: Phoenix Evaluation Committee
Chairman, Brown
Members, Nunn, O'Bannon, Morris

SUBJECT: Evaluation of Applicants, January Meeting

The Phoenix Committee reviewed the following applicants and makes to the Board the recommendations shown regarding registration in Arizona.

- The following applicants, having satisfied the Committee that they are fully qualified to received registration in Arizona under A.R.S. 32-122.01 and A.R.S. 32-126, are hereby recommended for registration:

ARCHITECTS

| | |
|----------------------|--------|
| Altoon, Ronald A. | 82-879 |
| Boren, Nelson M. | 82-985 |
| Fluckiger, Arnold B. | 82-954 |
| Gee, Edward J. | 82-924 |
| Harman, Lloyd M. | 82-873 |
| Hopkins, George D. | 82-943 |
| Jackson, Bruce D. | 83-020 |
| Johnson, Faye E. | 82-734 |
| Mah, Francis | 82-878 |
| Ruben, Edward J. | 83-007 |
| Sabic, Marin I. | 83-001 |
| Ten Eyck, John | 82-826 |

LANDSCAPE ARCHITECTS

| | |
|---------------------|--------|
| Barber, John P. | 82-615 |
| Simotti, Genesis A. | 82-996 |
| Winston, Jeffrey T. | 82-906 |

CIVIL ENGINEERS

| | |
|--------------------|--------|
| Bishop, Stephen L. | 82-647 |
| Blaksley, Neil R. | 83-004 |
| Boone, David R. | 82-750 |
| Bowles, David S. | 82-979 |
| Burgh, John A. | 82-936 |
| Ferris, Don L. | 82-276 |

CIVIL ENGINEERS

| | |
|----------------------|--------|
| Frey, William E. | 82-932 |
| Kumar, Vinod | 82-670 |
| Lang, Larry W. | 82-292 |
| McNew, Jerry L. | 82-653 |
| Moore, Edgar T. | 82-755 |
| Parrish, Daniel M. | 83-031 |
| Pulice, Frank R. | 82-542 |
| Singh, Hardip | 82-718 |
| Southgate, Thomas F. | 82-940 |

ELECTRICAL ENGINEERS

| | |
|--------------------------|--------|
| Church, Gary D. | 83-012 |
| Deka, Dilip K. | 82-862 |
| Scarcell, Dennis M. | 82-911 |
| Vadecha, Vipinchandra D. | 82-443 |

MECHANICAL ENGINEERS

| | |
|------------------------|--------|
| Fledderjohn, Thomas A. | 82-385 |
| Harris, Floyd T. | 82-926 |
| Luff, Gene S. | 82-822 |

SANITARY ENGINEER

| | |
|--------------|--------|
| Green, James | 82-328 |
|--------------|--------|

Division A,B,C,D,E,F,G,H,I
Division B and C
Division A and I
Division A,B,C,D,E,F,G,H,I

STRUCTURAL ENGINEERS

| | |
|----------------------|--------|
| Campbell, David B. | 82-021 |
| Pearce, Mylo A. | 82-891 |
| Smith, Michael E. | 82-721 |
| Williams, William D. | 82-942 |

LAND SURVEYORS

| | |
|----------------------|--------|
| Butcher, Phillip S. | 82-890 |
| Cardarelle, Frank R. | 82-516 |
| Craig, Robert M. | 82-905 |
| Crider, Howard P. | 82-947 |
| Driver, Elbert D. | 82-834 |
| Gribbin, Thomas J. | 82-019 |
| Iker, Stephen D. | 82-858 |
| Klagge, Errol K. | 82-874 |
| Kochevar, Bernard | 82-706 |
| McFaul, Douglas J. | 82-831 |
| Maida, Stewart A. | 82-918 |
| Paisano, John | 82-259 |
| Romero, Santiago | 82-650 |
| Stafford, Charles H. | 82-896 |
| Steck, David D. | 82-682 |

GEOLOGISTS

| | |
|---------------------|--------|
| Bemis, Charles G. | 82-619 |
| Reynolds, Robert R. | 82-389 |

2. The following applicants were evaluated by the Committee and it is recommended to the Board that these individuals be held for examinations as indicated:

ARCHITECTS

| | | |
|-------------------|--------|----------------------------|
| Cooke, Ted | 82-746 | Division A and I |
| Kleber, Terrence | 82-803 | Division A,B,C,D,E,F,G,H,I |
| McNamara, John | 82-597 | Division B and C |
| McNulty, Roseanne | 82-748 | Division A and I |
| Hines, Michael | 82-830 | Division A,B,C,D,E,F,G,H,I |

ARCHITECTS

| | | |
|---------------------|--------|-------------------------|
| Raman, Balakrishnan | 82-949 | Division A,B,C, and I |
| Vernosky, Christian | 82-764 | Division A, D,E,F,G,H,I |

CHEMICAL ENGINEERS

| | | |
|--------------------|--------|--------------|
| Maxwell, Charles | 82-969 | Part 3 and 4 |
| Van Soest, Rudolph | 82-666 | Part 3 and 4 |

CIVIL ENGINEERS

| | | |
|--------------------|--------|------------------|
| Alexander, Douglas | 82-962 | Part 3 and 4 |
| Gill, Edward | 82-995 | Part 3 and 4 |
| Mueller, Gary | 82-944 | Part 1,2,3 and 4 |
| Rodriguez, David | 82-929 | Part 3 and 4 |
| Siewert, Dennis | 82-997 | Part 3 and 4 |
| Voigt, David | 82-935 | Part 3 and 4 |

MECHANICAL ENGINEERS

| | | |
|------------------|--------|--------------|
| Lucken, Lawrence | 82-895 | Part 3 and 4 |
| Sherman, Charles | 82-948 | Part 3 and 4 |
| Tay, Kim | 82-988 | Part 3 and 4 |
| Yates, Frank | 82-981 | Part 3 and 4 |

MINING ENGINEERS

| | | |
|------------------|--------|--------------|
| Iles, Calvert | 82-953 | Part 3 and 4 |
| Osborne, William | 82-951 | Part 3 and 4 |

SANITARY ENGINEER

| | | |
|-------------------|--------|--------------|
| Grosvenor, Harley | 82-854 | Part 1,2,3,4 |
|-------------------|--------|--------------|

STRUCTURAL ENGINEERS

| | | |
|------------------|--------|------------------|
| Hamilton, Harry | 82-912 | Part 5 and 6 |
| Kramm, Morgan L. | 82-655 | Part 5 and 6 |
| Martin, Thomas | 82-901 | Part 3,4,5 and 6 |
| Turner, Mark | 82-964 | Part 3,4,5 and 6 |

GEOLOGISTS

| | | |
|-----------------|--------|--------------|
| Von Boeck, Rene | 82-741 | Part 3 and 4 |
| Wilt, Jan | 82-883 | Part 3 and 4 |

3. The Committee recommended that the following applicants be denied for lack of experience.

| | | | |
|------------------|--------|-------------|-------------------|
| Moeller, Kenenth | 82-769 | (Architect) | lack of 12 months |
| Yasami, Majid R. | 82-671 | (Architect) | lack of 24 months |
| House, Norman | 82-998 | (Civil) | lack of 12 months |

4. The Committee recommended that the following applicant be denied for failure to meet the requirements of the Board.

| | | |
|------------------|--------|-----------------|
| Stevens, Michael | 82-876 | (Land Surveyor) |
|------------------|--------|-----------------|

OCTOBER 1982 EXAMINATION RESULTS

05714

ASSAYERS

- * Anderson, James
- * Best, John
- * Drew, Glenn
- * Hanneken, Walter
- * Hover, Ronald
- * Macaulay, Donald
- Weatherby, Jim
- * Wilson, Joseph

GEOLOGICAL ENGINEERS

- Langland, Leo
- * Vann, Jeffrey

GEOLOGISTS

- Jones, James
- Lemmon, James
- * Rippere, Kenneth
- Wold, Paul

- * GRANT REGISTRATION

ENGINEER-IN-TRAINING

05715

- * 82-200 Altuna, Larry
- 82-238 Antonik-Raastad K.
- 80-245 Austin, Bryan
- 76-8 Ballesteros, Louis
- 82-232 Barbes, Mircia
- 82-195 Barkley, Shauna
- 82-240 Bauer, Mark
- 82-226 Blanco, Daniel
- * 82-248 Bloomfield, David
- 81-217 Bragg, Donald
- * 82-222 Brodsky, Mitchell
- 82-268 Bultman, Steven
- 82-167 Burkhart, Fred
- 82-197 Canez, Juan
- * 82-211 Capelik, Stanley
- 82-255 Carlson, John
- * 82-208 Casey, Dennis
- 77-136 Cawood, Carl
- 82-236 Chavez, Dorothy
- 82-225 Chen, Hsien-Wu
- * 82-216 Chittenden, Brad
- 81-299 Cohen, Richard
- 82-129 Collica, Randall
- 82-015 Collins, Miller
- 82-178 Cord, Gregory
- * 82-064 Davies, Robert
- 82-189 Deason, Ralf
- 82-008 Dosch, Rose
- 82-188 Doyle, Michael
- 82-234 Drake, Rand
- 81-228 Dreasen, Richard
- 82-220 Dum, Thomas
- 81-314 Ecklund, Bradford
- 82-260 Edwards, Glen
- * 82-294 Fahy, James
- 82-229 Farhadi, Hamid
- 82-191 Finn, Kevin
- 82-202 Fletcher, Russell

* GRANT REGISTRATION

- 82-264 Foppe, Lawrence
82-267 Furgason, Shawn
82-276 Gilbert, Mark
82-252 Giorsetti, Peter
82-209 Gomez, Rene
82-243 Good, Sandra
82-244 Goodwin, Jeffery
82-090 Grant, John
82-256 Grenier, Jane
81-317 Grinstead, Robert
82-180 Gudeman, Scott
79-13 Gutierrez, Adrian
82-192 Haley, Brent
82-242 Hammer, Lloyd
82-219 Hazelton, Wesley
* 82-183 Heath, Bradley
81-134 Hernandez, Lorenzo
82-293 Hill, David
82-279 Hill, Leroy
82-245 Hitchcock, Jay
* 82-203 Hsieh, Hong-Ching
81-203 Horine, Geoffrey
82-278 Huppler, Thomas
82-002 James, Jonathan
82-292 Jecker, Brian
82-277 Jensen, Robert
82-259 Jensen, William
82-249 Joe, Gary
82-233 Johnson, Lawrin
* 82-217 Jorgensen, Jeffrey
82-253 Junkar, Frank
82-194 Kansakar, Rajendra
82-210 Keita, Koumou
82-231 KenKnight, Lynette
82-206 Kilani, Basil
79-80 Knudsen, Dennis
82-271 Korp, Willy

ENGINEER-IN-TRAINING

5717

- 82-017 Kranking, Patrick
- 82-218 Kriz, Donald
- * 82-274 Lefton, Kenneth
- 82-201 Leinenwever, Mark
- 82-285 Lemme, Pamela
- 78-162 Lester, Billy
- 82-258 Levin, Mark
- 82-269 Lipscomb, Thomas
- 75-205 Luebkin, Dennis
- 78-36 Lyall, Albert
- 80-037 McKune, Carter
- 82-142 Madaghiele, Raymond
- * 82-272 Malik, Sohail
- 82-235 Martin, Kipp
- 82-116 Martuneac, Laura
- 79-213 Mathieu, Michael
- 82-213 Mercer, Ann
- 82-247 Miner, Steven
- 82-280 Miscovich, Peter
- 82-190 Moeller, Mark
- * 82-251 Mueller, Paul
- * 82-263 Nagy, Daniel
- 82-275 Niver, Gary
- 82-041 O'Toole, Daniel
- * 80-198 Palermo, Michael
- 82-241 Pattison, Ralph
- 82-022 Pennington, Gary
- 82-296 Phillips, Jayne
- 82-246 Pomerantz, Douglas
- * 82-184 Reed, Ronald
- 82-230 Rendes, Andrew
- 82-187 Reyes, James
- 82-262 Risser, Teresa
- 82-214 Robertson, James
- * 81-028 Robison, Myron

82-161 Rojas, Lee
82-095 Rooker, Calvin
82-021 Ruiz, David
82-196 Russell, Robert
* 82-204 Russo, Andrew
82-254 Ryan, John
82-109 Sawan, Hassan
82-212 Schreier, Ronald
81-067 Sedler, Martin
82-273 Shah, Harendra
* 82-199 Shields, Suzanne
82-227 Simpson, Daniel
* 82-228 Smith, Ronald
* 82-186 Snow, Paul
81-055 Squires, Myron
80-170 Standing, Paul
82-286 Stinson, Elizabeth
82-270 Stonex, Anne
82-205 Stout, Daniel
82-103 Szarka, Darryl
81-316 Taeger, Robert
82-007 Taherkhan, Abbas
82-266 Tanner, Eric
80-005 Tarr, Michael
82-223 Taylor, Nancy
82-281 Thompson, Corey
82-056 Titus, Kim
80-161 Trujillo, Robert
82-093 Tsay, Bao
82-237 Wagner, Susie
82-198 Walters, Roger
82-265 Whiteside, John
82-250 Wilson, Robert
82-261 Worley, James
82-257 Zeitoun, Lawrence
81-172 Zilberman, Vladimir

* 82-03 Brathovde, James

Also 81-05 Dodds, Mark 15020
 Alton, Larry K. 15091
 Aron, Nelson R. 15092
 Aron, Stephen A. 15093
 Fluckiger, Arnold B. 15094
 Ben, Edward J. 15095
 Ayres, Lloyd H. 15096
 Baker, George 15097
 Jackson, Bruce D. 15098
 Johnson, Faye E. 15099
 Lee, Alvin C. 15100
 Lee, Francis 15101
 Owen, Edward J. 15102
 Sabic, Martin J. 15103
 Simonson, Larry R. 15104
 Van Dyck, John G. 15105
 Thomson, John D. 15106
 Taita, Louise V. 15107

LANDSCAPE ARCHITECTS

Barber, John P. 15108
 Skovitz, Genesis A. 15109
 Whelan, Jeffrey T. 15110

CIVIL ENGINEERS

Barnes, Dennis B. 15111
 Bayer, Dennis G. 15112
 DeFuria, Wayne 15113
 Bishop, Stephen L. 15114
 Blaisley, Neil K. 15115
 Brown, David Field 15116
 Buehler, David Stanley 15117
 Burgh, John A. 15118
 Cooper, Frederick C. 15119

CIVIL ENGINEERS

Carry, Scott G. 15120
 Curtis, Frank E. 15121
 Davis, Thomas L. 15122
 Dentz, Robert R. 15123
 Eld, Ronald J. 15124
 Ensign, Timothy T. 15125
 Ferris, Don L. 15126
 Fry, William E. 15127
 Givens, Raymond L. 15128
 Hespeler, Lawrence R. 15129
 Hespeler, William D. 15130
 Hopper, Thomas E. 15131
 Howell, Richard W. 15132
 Hymas, Nelson J. 15133
 Johnson, Robert I. 15134
 Joshi, Richard S. 15135
 Kristel, John A. 15136
 Koser, Vinod 15137
 Lang, Larry H. 15138
 Leckband, Suzanne 15139
 Miller, Jerry L. 15140
 Nefler, Wellington R. 15141
 Michael, Ralph G. 15142
 Moore, Edgar Temple 15143
 Orlako, Robert L. 15144
 Puller, Frank R. 15145
 Riehl, Don W. 15146
 Ruzak, Edward J. 15147
 Salsbury, Edward M. 15148
 Singh, Hardip 15149
 Scottgate, Thomas F. 15150
 Stevens, Michael L. 15151
 Sullivan, Curtis D. 15152
 Tuckisson, Phillip C. 15153
 Toy, Douglas K. 15154

ARCHITECTS

| | |
|----------------------|-------|
| Altoon, Ronald A. | 15090 |
| Bjorum, Larry K. | 15091 |
| Boren, Nelson M. | 15092 |
| Brown, Stephen A. | 15093 |
| Fluckiger, Arnold B. | 15094 |
| Gee, Edward J. | 15095 |
| Harman, Lloyd M. | 15096 |
| Hopkins, George | 15097 |
| Jackson, Bruce D. | 15098 |
| Johnson, Faye E. | 15099 |
| Lum, Alvin C. | 15100 |
| Mah, Francis | 15101 |
| Ruben, Edward J. | 15102 |
| Sabic, Marin I. | 15103 |
| Sorenson, Larry R. | 15104 |
| Ten Eyck, John B. | 15105 |
| Thomson, John D. | 15106 |
| Tonkin, Leslie V. | 15107 |

LANDSCAPE ARCHITECTS

| | |
|---------------------|-------|
| Barber, John P. | 15108 |
| Simotti, Genesis A. | 15109 |
| Winston, Jeffrey T. | 15110 |

CIVIL ENGINEERS

| | |
|-----------------------|-------|
| Barnes, Dennis D. | 15111 |
| Bayar, Demirtas C. | 15112 |
| Befort, Wayne | 15113 |
| Bishop, Stephen L. | 15114 |
| Blaksley, Neil R. | 15115 |
| Boone, David Reid | 15116 |
| Bowles, David Stanley | 15117 |
| Burgh, John A. | 15118 |
| Cooper, Fredrick C. | 15119 |

CIVIL ENGINEERS

| | |
|----------------------|-------|
| Curry, Scott D. | 15120 |
| Curtis, Thomas E. | 15121 |
| Davis, Thomas E. | 15122 |
| Dentz, Robert N. | 15123 |
| Eid, Ronald J. | 15124 |
| Ensign, Timothy T. | 15125 |
| Ferris, Don L. | 15126 |
| Frey, William E. | 15127 |
| Givens, Raymond L. | 15128 |
| Hampton, Laurence R. | 15129 |
| Hespeler, William D. | 15130 |
| Hopper, Thomas E. | 15131 |
| Howell, Richard W. | 15132 |
| Hymans, Nelson J. | 15133 |
| Johnson, Robert I. | 15134 |
| Joshlin, Richard S. | 15135 |
| Knittel, John A. | 15136 |
| Kumar, Vinod | 15137 |
| Lang, Larry W. | 15138 |
| Leckband, Susanne | 15139 |
| McNew, Jerry L. | 15140 |
| Meier, Wellington R. | 15141 |
| Michael, Ralph G. | 15142 |
| Moore, Edgar Temple | 15143 |
| Ozibko, Robert L. | 15144 |
| Pulice, Frank R. | 15145 |
| Riehl, Ben J. | 15146 |
| Ruzak, Edward J. | 15147 |
| Salsbury, Edeard M. | 15148 |
| Singh, Hardip | 15149 |
| Southgate, Thomas F. | 15150 |
| Stevens, Michael L. | 15151 |
| Summers, Curtis D. | 15152 |
| Tonkinson, Philip C. | 15153 |
| Toy, Douglas K. | 15154 |

CIVIL ENGINEERS

Upchurch, Jonathan 15155
Wong, Philip H. 15156

ELECTRICAL ENGINEERS

Church, Gary D. 15157
Deka, Dilip K. 15158
Grachan, Kenneth M. 15159
Hartung, John W. 15160
Leake, Harvey C. 15161
Lee, William G. 15162
Moore, Lawrence J. 15163
Scarcell, Dennis M. 15164
Vadecha, Vipinchandra 15165

MECHANICAL ENGINEERS

Canelli, William J. 15166
Denio, Galen D. 15167
Fledderjohn, Thomas A. 15168
Harris, Floyd T. 15169
Jast, Mark A. 15170
Korzeniowski, Edward S. 15171
Logue, James L. 15172
Luff, Gene S. 15173
Mudd, Daniel H. 15174
Quiter, James R. 15175
Robinson, Stephen C. 15176
Tuttle, Bryce N. 15177

SANITARY ENGINEER

Green, James M. 15178

STRUCTURAL ENGINEERS

Campbell, David B. 15179
Pearce, Mylo A. 15180
Smith, Michael E. 15181
Williams, William D. 15182
Starling, Ronald A. 15183

ASSAYERS

Anderson, James W. 15184
Best, John D. 15185
Drew, Glenn E. 15186
Hanneken, Walter G. 15187
Hover, Ronald J. 15188
Macaulay, Donald 15189
Wilson, Joseph P. 15190

LAND SURVEYORS

Butcher, Phillip S. 15191
Cardarelle, Frank R. 15192
Craig, Robert M. 15193
Crider, Howard P. 15194
Driver, Elbert D. 15195
Gribbin, Thomas 15196
Iker, Stephen D. 15197
Klagge, Errol K. 15198
Kochevar, Bernard F. 15199
McFaul, Douglas 15200
Maida, Stewart A. 15201
Paisano, John 15202
Romero, Santiago 15203
Stafford, Charles H. 15204
Steck, David D. 15205

GEOLOGICAL ENGINEER

Vann, Jeffrey D. 15206

ENGINEER IN TRAINING GRANTED LIST

5723

| | |
|-----------------------|------|
| Altuna, Larry M. | 2824 |
| Bloomfield, David C. | 2825 |
| Brodsky, Mitchell G. | 2826 |
| Capelik, Stanley D. | 2827 |
| Casey, Dennis C. | 2828 |
| Chittenden, Brad R. | 2829 |
| Davies, Robert L. | 2830 |
| Fahy, James R. | 2831 |
| Heath, Bradley E. | 2832 |
| Hsieh, Hong-Ching | 2833 |
| Jorgensen, Jeffrey L. | 2834 |
| Korp, Willy R. | 2835 |
| Lefton, Kenneth D. | 2836 |
| Malik, Sohail M. | 2837 |
| Mueller, Paul | 2838 |
| Nagy, Daniel | 2839 |
| Palermo, Michael J. | 2840 |
| Reed, Ronald G. | 2841 |
| Robison, Myron E. | 2842 |
| Russo, Andrew J. | 2843 |
| Shields, Suzanne J. | 2844 |
| Smith, Ronald Lloyd | 2845 |
| Snow, Paul C. | 2846 |
| Tsay, Bao G. | 2847 |
| Zeitoun, Lawrence | 2848 |

GEOLOGIST IN TRAINING

| | |
|---------------------|----|
| Brathovde, James E. | 36 |
|---------------------|----|

STATE BOARD OF TECHNICAL REGISTRATION

SPECIAL MEETING

FEBRUARY 17, 1983

I. CALL TO ORDER

The special meeting of the State Board of Technical Registration held in Room 126 of the Occupational Licensing Building, 1645 W. Jefferson, Phoenix, Arizona, was called to order by Chairman Jimmie R. Nunn at 9:10 a.m.

PRESENT: Jimmie R. Nunn, Chairman
 John B. Riggs, Vice-chairman
 Paul W. Cella, Member
 Robin A. Morris, Member
 Charles E. O'Bannon, Member

ABSENT: Silas C. Brown, Secretary
 Hector C. Durand, Member
 Stewart R. Palmer, Member

Gary Sheets, Asst. Attorney General
 Judi E. Ross, Executive Director
 Ronald Dalrymple, Investigation Supervisor
 Margaret Holmes, Administrative Secretary

GUESTS: Elmer Culp
 Eleanor Smith, Arizona Society of Architects
 Ralph E. Weeks, American Institute of Professional Geologists
 Kathy Culp

Those present constituted a quorum.

II. EXECUTIVE SESSION

It was moved by Dr. O'Bannon and seconded by Ms. Morris, that the Board convene in Executive Session. The Board reconvened in Open Session at 10:30 a.m.

III. CERTIFICATION OF EXAMINATION RESULTS

- a. Architects - It was moved by Mr. Riggs and seconded by Mr. Cella that the examination results shown on pages 5728-5730 of these minutes be certified. MOTION CARRIED.
- b. Engineers - It was moved by Dr. O'Bannon and seconded by Mr. Riggs that the examination results shown on pages 5731-5734 of these minutes be certified. MOTION CARRIED.
- c. Land Surveyors -
 1. Grading of Local Part, Professional Exam - Establishment of Minimum Passing Raw Score

Dr. O'Bannon presented the recommendation of the special committee on examination results for establishing a minimum passing raw score. He discussed the various analytical tests used to establish a cut-off and recommended that the Board adopt the mean minus one-half of one standard deviation, or 42.5%, as the minimum passing raw score. The 42.5% would be adjusted to equal 50%. The 42.5% also coincided with a marked break in the scores and was further supported by the results of a Z-bar test conducted by a professor at ASU. Dr. O'Bannon

moved that 42.5% be adopted as the minimum raw cut-off score and that 42.5% be adjusted to equal 70%. Mr. Riggs seconded the motion. MOTION CARRIED.

2. Certification - Professional (NCEE and Local Land Surveyor) Examination Results

It was moved by Mr. Cella and seconded by Mr. Riggs that the Board certify the Land Surveyor examination results as shown on pages 5739-5740 of these minutes. MOTION CARRIED.

3. Certification - In-training Examination Results

It was moved by Mr. Cella and seconded by Mr. Riggs that the examination results as shown on pages 5741 of these minutes be certified. MOTION CARRIED.

- IV. A. It was moved by Mr. Riggs and seconded by Dr. O'Bannon to grant registration to the architectural applicants as shown on page 5742 of these minutes with appropriate registration numbers. MOTION CARRIED.
- B. It was moved by Dr. O'Bannon and seconded by Mr. Riggs to grant registration to the engineering applicants as shown on pages 5742-5743 of these minutes with the appropriate registration numbers. MOTION CARRIED.
- C. It was moved by Dr. O'Bannon and seconded by Mr. Riggs to grant registration to land surveyors as shown on page 5744 of these minutes with the appropriate registration numbers. MOTION CARRIED.
- D. It was moved by Dr. O'Bannon and seconded by Mr. Cella to grant land surveyor in-training certificate to Mr. Martin and Mr. Miller with numbers as shown. MOTION CARRIED.

V. ENFORCEMENT

A. C80-74 BTR vs. Douglas Hawkins, PE (Civil) #7850

It was moved by Mr. Riggs and seconded by Dr. O'Bannon to authorize the Consent Order (pp of these minutes). MOTION CARRIED.

B. C81-44, 46, 50 BTR vs. Robert Brock, PE (Civil) #12543

It was moved by Mr. Riggs and seconded by Dr. O'Bannon to authorize the Chairman to sign the Consent Order contingent upon the respondent signing the Order and submitting the required administrative penalty
MOTION CARRIED.

C. NOTICES OF VIOLATION - Authorization for Executive Director to Sign.

It was moved by Mr. Riggs and seconded by Dr. O'Bannon to grant authorization for the Executive Director to sign all notices of violation but to apprise the Board of all such notices at the following meeting. MOTION CARRIED.

VI. PUBLIC COMMENT - No comment was offered.

- VII. PROPOSED RULES - The Board reviewed the proposed rules; all changes, deletions, corrections were noted and will be corrected. It was moved by Dr. O'Bannon and seconded by Mr. Riggs to authorize staff to submit the rules package to the Governor's committee, thereby initiating the adoption process. MOTION CARRIED. Mr. Sheets reviewed the rules adoption procedures and stated that the public hearing could be held in late May.

VIII. LEGISLATIVE UPDATE

Ms. Ross reviewed Senate Bill 1086. Ms. Ross discussed the amendment that was introduced and stated that if the bill had passed, the agencies would have had to contribute 20% to the General Fund but would have had the use of all moneys in the special fund and the benefit of not having to go through appropriations. Unfortunately other 90/10 agencies could not see the advantages and testified against the bill, as amended, and it was defeated. Ms. Ross also reviewed Senate Bill 1085 which related to the use of moneys kept in funds separate from the general fund to alleviate the State's cash flow problem. She indicated that SB 1085 had passed Senate Appropriations with an amendment and very likely would pass both houses.

IX. OTHER BUSINESS

- A. Al Stevens' Settlement - Mr. Sheets reviewed the settlement and the letter of apology to be sent to Mr. Stevens. It was moved by Ms. Morris and seconded by Dr. O'Bannon that the letter be tabled until an accord could be reached with the attorneys regarding the wording of the letter. MOTION CARRIED.

- B. Out-of-State Travel Requests - Mr. Riggs presented to the Board a request for authorization to attend WCARB for both Ms. Ross and himself. He emphasized the benefits of having both the Executive Director and a Board member present at the conference. It was moved by Dr. O'Bannon and seconded by Mr. Cella that both Mr. Riggs and Ms. Ross be authorized to attend the March WCARB in San Diego. MOTION CARRIED.

- C. Additional Appointment - Land Surveyor Examination Committee

It was moved by Dr. O'Bannon and seconded by Mr. Riggs that David Lucas be invited to participate on the land surveyor examination committee. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Riggs to nominate Ray Pavolich to the committee. MOTION CARRIED.

- D. Assayer Enforcement Advisory Committee

It was moved by Dr. O'Bannon and seconded by Mr. Riggs that the following individuals be appointed to the Assayer Advisory Committee, providing they are willing to serve as Public Members. Kathy Collins and Connie McConnell. Richard M. Harris, Harold E. Richards, Mr. William Lembect, Dianna Shaw. MOTION CARRIED.

- E. March Meeting - Ms. Ross announced that the March 18 meeting will be held in Tucson at the University of Arizona in the Engineering Department. Margie Holmes will make reservations at the Marriott Hotel in Tucson for all members.

February 17, 1983
Special Meeting

05727

It was moved by Dr. O'Bannon and seconded by Mr. Riggs to hold the June Board meeting on June 10 instead of June 4. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Riggs that the meeting be adjourned. MOTION CARRIED.

- 12-001 [Name]
- 12-002 [Name]
- 12-003 [Name]
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- 12-098 [Name]
- 12-099 [Name]
- 12-100 [Name]

12-101 [Name]

DECEMBER 1982 ARCHITECTURAL PROFESSIONAL EXAMINATION RESULTS

15728

NAME

- 81-624 Ahuero, Robert L.
- * 82-765 Anderson, Vernon P.
- * 81-858 Bacon, Max E.
- * 82-695 Barber, Richard A.
- 81-260 Barland, Joseph E.
- 79-300 Benedict, Peter A.
- 82-789 Bent, Donald E.
- * 80-735 Bhalla, Vijay
- 71-414 Biddle, Warren R.
- 82-864 Bohn, Stephen C.
- * 82-800 Bohning, Scott A.
- 82-782 Bollinger, Kevin D.
- * 79-694 Bowen, Luke Reynolds
- 82-311 Brendecke, Roger C.
- 82-801 Brosius, David A.
- 80-662 Brown, Robert M.
- * 82-665 Brownlie, Michael C.
- 82-637 Bruno, Dean E.
- 80-704 Burns, Robert
- 81-714 Campos, Xavier S.
- 82-343 Carter, Randolph L.
- 82-745 Carter, William D.
- * 81-810 Casey, George H.
- 78-221 Chapman, Raymond E.
- 82-763 Cohen, Howard
- * 82-495 Colletta, Robert M.
- 82-216 Conn, Harold M.
- * 79-678 Conner, Kenneth R.
- * 79-223 Cortez, Ernest L.
- 82-165 Couturier, Caniel E.
- * 82-779 Daugherty, Glenn
- * 82-722 Davidson, Stephen R.
- * 82-599 Deardorff, Robert L.
- * 82-738 Dieterich, David D.

* GRANT REGISTRATION

NAME
* 77-180 Dooling, David
74-499 Duncan, Clarence D.
80-672 Ebrahim, Mohamed A.
* 82-790 Elliott, Robert W.
79-347 Ellsworth, Paula M.
82-794 Fox, Daniel L.
* 82-771 Fulton, George S.
* 82-780 Gagnepain, Gerald J.
81-686 Goldstein, Gene
81-654 Graham, Bradley H.
82-250 Granillo, Steven R.
78-539 Guzman, Gabriel F.
82-786 Haskell, Paul F.
82-033 Heider, Richard M.
* 81-414 Hessenius, Phillip J.
82-234 Hoffman, Maryann.
* 80-238 Jackson, Michael A.
82-309 Johnson, Richard D.
* 81-680 Johnson, Robert P.
80-271 Kimoto, Jon S.
81-302 Knapp, Richard A.
71-318 Kopecek, Josef R.
78-431 Kovacs, Laszlo
* 82-418 Leibsohn, Eric.
* 81-739 Lonchar, Wayne M.
74-538 Lucero, Edward H.
* 81-587 McKittrick, Denis
81-592 Magness, Bobby L.
81-647 Manross, John C.
* 82-337 Maher, Joseph S.
* 81-495 Masse, Paul H.
* 82-820 Meeks, Lawrence D.
81-192 Mendoza, Frank M.
81-867 Meyer, Gary W.
81-062 Moorman, David W.
* 71-391 Moos, Stephen L.

DECEMBER 1982 ARCHITECTURAL EXAMINATION RESULTS CONT'D

05730

NAME

- 78-380 Palmeri, Richard P.
- * 82-600 Pang, Yin Ka
- * 82-799 Pattyn, Steven W.
- * 80-504 Pea, Wayne A.
- * 82-174 Perry, James M.
- * 82-485 Pian, Robert L.
- 82-684 Prettyman, James R.
- * 82-715 Prevost, Jeffrey S.
- * 82-484 Price, Janice J.
- * 77-224 Pujadas, Jose
- * 82-772 Roberts, Judson A.
- * 79-735 Rothwell, Susanne G.
- 82-359 Saavedra, Oscar E.
- * 82-762 Saber, Glenn A.
- 79-683 Sadeghi, Jala
- 82-378 Saletta, Charles A.
- 80-199 Santa Maria, Antonio
- 82-732 Schmitt, Michael L.
- * 82-793 Sheely, William W.
- 82-046 Sibayan, Ruben S.
- 81-809 Simmons, Nora L.
- * 82-368 Slife, Curtis L.
- 81-752 Thomas, Abraham
- 82-844 Urias, Charles G.
- 82-213 Volden, Rodney F.
- 82-847 Waldrom, William X.
- 80-716 Willcox, Jared D.
- 82-813 Williams, Gregg S.
- 81-144 Wolfarth, Kim E.
- 82-032 Wong, Ted
- 81-330 Woodward, James W.

AERONAUTICAL ENGINEER

- * 80-329 Irwin, William

AGRICULTURAL ENGINEER

- * 82-421 Coates, Wayne E.

CHEMICAL ENGINEERS

- 76-260 Rosenstock, Hubert
- * 82-142 White, James W.

CIVIL ENGINEERS

- * 82-045 Anderson, Ronald P.
- 81-763 Aros, Ronald E.
- * 82-476 Arzemanian, Andranik
- 81-553 Baker, Gene M.
- 80-214 Baldwin, Elvin R.
- 82-291 Barnard, Michael A.
- * 81-317 Barr, James N.
- 81-876 Becchetti, Anton D.
- * 81-646 Benally, Raymond
- 70-58 Bertella, Guido J.
- 81-403 Binger, Gary V.
- * 82-529 Blais, Russell V.
- * 81-873 Bossert, Curtis C.
- 80-745 Bowers, William D.
- * 81-856 Brake, Thomas L.
- * 82-578 Buras, David W.
- * 81-912 Cagle, Donald W.
- * 81-080 Catterfeld, James A.
- 80-371 Dabney, Charles P.
- 81-438 Daru, John L.
- 78-697 Danelowitz, Mark X.

*- GRANT REGISTRATION

CIVIL ENGINEERS

- * 82-091 DeMuth, Britt
- * 81-560 Doell, Richard W.
81-670 Doll, Jerry K.
- * 82-181 Donat, Gary D.
80-556 Dunbar, Mark L.
- * 81-923 Durby, Michael J.
77-118 Fleet, Fred E.
- * 82-008 Friedl, Frederick F.
75-354 Funderburk, Harvey A.
80-84 Gentry, Ronald C.
- * 82-106 Glass, Clinton M.
- * 82-527 Goddard, Madeline F.
81-336 Gonzalez, Jose L.
81-222 Gualtiere, Monte
- * 82-143 Guerra, Frank M.
- * 82-567 Guess, Charles P.
80-834 Haas, Robert J.
82-159 Hanshaw, Mark A.
- ** 81-861 Harris, James M.
82-057 Hinderer, Grant K.
79-483 Hutson, Ronald C.
82-051 Jaspers, Byron
- * 81-897 Kanovich, Joseph S.
73-44 Kay, Orin W.
69-270 Kirdar, Edib
74-173 Lay, George J.
82-056 Luna, Frederick H.
- * 81-559 Lundgren, Samuel G.
- * 81-916 Luscombe, Robert W.
82-565 MacMorran, James D.
- * 81-931 Marks, Adrienne
- * 82-512 Matthews, Daniel P.
76-103 Milicevic, Novica
- * 82-027 Mortensen, Steven L.
- * 82-300 Munn, Gary S.

CIVIL ENGINEERS

- * 82-043 Newman, Benjamin E.
- 75-421 Nixon, Charles G.
- 81-504 Palma, Raul B.
- 70-413 Patty, John H.
- 80-030 Pekala, Michael P.
- 80-522 Pidskalny, Robert A.
- * 82-175 Powell, Perry M.
- 79-453 Quay, J.H.
- * 82-432 Ragland, David
- 82-120 Richards, Jonnie S.
- * 82-426 Schuelke, Gregory A.
- 80-849 Shirvani-Kenareki, G.
- 82-380 Shobe, Ray W.
- 73-290 Snyder, Jack D.
- * 82-160 Talbott, Ronald L.
- * 82-450 Thureson, Wayne E.
- 82-524 Tineo, Antonio F.
- 79-206 Tripp, Glen Dewayne
- * 82-436 Turner, Justin M.
- * 82-026 Wagner, Martha M.
- * 81-501 Walbridge, Stacy R.
- * 82-054 Wanttaja, Kevin
- * 82-579 Waterman, Richard N.
- 79-656 Welt, William E.
- 81-839 Wiles, Lonnie C.
- 76-320 Wilkie, Paul A.
- * 82-354 Wilson, David L.
- 78-345 Wright, William A.
- 76-407 Yeager, Larry R.
- 78-560 Zicafoose, Robert D.

ELECTRICAL ENGINEERS

- 81-901 Abdallah, Hanna E.
* 81-297 Banerjee, Hironmoy
82-072 Burgett, Michael R.
* 82-555 Burson, James C.
75-185 Campbell, William
* 82-100 Champlin, Cary R.
81-822 Conovaloff, Bill J.
80-752 Cook, Harley E.
* 81-806 Darke, Douglas L.
79-727 Echols, Jack D.
79-227 Emerson, Asher D.
82-431 Emmett, Gary L.
82-119 Evans, Thomas A.
81-492 Farber, Victor L.
74-669 Haines, Robert T.
79-677 Handzek, James M.
81-075 Herk, Gary A.
* 79-85 Kenyon, Scott A.
80-582 Lammer, Jerome E.
* 82-058 Larsen, Jerry O.
80-016 Ross, Everett C.
82-005 Sedigh, Kazem
* 81-894 Walling, Charles H.
80-699 Wortham, Jimmie J.

INDUSTRIAL ENGINEER

- 81-249 Schmitt, Louis A.

MECHANICAL ENGINEERS

- 80-471 Bagby, Philip S.
79-23 Barnes, Philip H.
* 82-052 Blair, James L.
80-251 Bundy, David

MECHANICAL ENGINEERS

- 82-530 Chen, Patrick
* 82-483 Connito, Richard T.
77-655 Drummond, David T.
* 81-617 Dugan, Patrick W.
81-061 Foulks, Alan L.
78-130 Hannifin, Edmund N.
81-059 Heck, Daniel C.
* 82-188 Hess, Robert O.
81-857 Hom, Paul J.
82-116 Humes, John L.
* 82-186 Johnson, Arthur
* 82-077 Laessle, David
* 81-550 McCloskey, Glenn R.
70-432 Miller, Marion E.
81-556 Nagy, Peter A.
* 82-098 Panuska, Brian R.
* 82-071 Pearson, David S.
81-637 Polak, Mario W.
82-048 Richard, Leo J.
* 82-464 Robinson, Randy J.
80-449 Snow, Gene H.
82-563 Stewart, James B.
* 82-536 Stout, Roger P.
81-401 Stover, John S.
81-066 Thomas, Matthew E.
81-918 Tripson, Ronald R.
82-053 Vaklyes, John W.
82-541 Werner, James E.
* 82-055 Wilkes, Ray E.
79-512 Sim, James M.

METALLURGICAL ENGINEERS

- 81-718 Hillman, Harry F.
81-790 Rahl, Albert R.
82-471 Ramsey, Terry L.

OCTOBER EXAMINATION RESULTS CONT'D

5737
05736

MINING ENGINEERS

- 82-074 Reed, Donald H.
- 82-089 Zappia, Gino F.
- * 81-103 Zappia, Michael A.

SANITARY ENGINEERS

- 79-339 Crisafulli, Lawrence M.
- 77-573 Willis, Brayton P.

STRUCTURAL ENGINEERS

- 81-722 Averette, Henry S.
- * 81-030 Casey, Edmond T.
- 82-162 Chen, Nan J.
- * 80-826 Fejes, Leslie A.
- * 81-201 Hagedon, George G.
- 79-513 Herz, Robert T.
- 81-580 Johnson, Perry A.
- * 81-211 Knebel, William F.
- 81-088 Lamb, Lawrence G.
- 81-517 Malik, Mahmood A.
- * 81-203 Pacey, Michael F.
- * 82-037 Paul, Clifford R.
- 81-568 Schmid, Gregory S.
- * 81-581 Show, Jesse
- 82-080 Stirnitzke, Robert
- * 82-596 White, Warren L.

10/1982

DISTRIBUTION OF RAW SCORES
LOCAL PART/PROFESSIONAL LAND SURVEYORS EXAMINATION

15737

| <u>EXAMINATION NO.</u> | <u>% of 250 points (raw score)</u> |
|------------------------|------------------------------------|
| 7018 | 82.4 |
| 8001 | 74.2 |
| 7028 | 73.4 |
| 7031 | 72.2 |
| 7033 | 71.4 |
| 8003 | 71.2 |
| 7017 | 66.2 |
| 7023 | 65.0 |
| 8002 | 64.4 |
| 8007 | 57.0 |
| 8010 | 56.6 |
| 7015 | 56.0 |
| 7039 | 56.0 |
| 8006 | 55.8 |
| 7030 | 55.4 |
| 7041 | 55.0 |
| 7025 | 53.4 |
| 7034 | 52.8 |
| 7016 | 52.4 |
| 7021 | 52.4 |
| 7019 | 52.0 |
| 7045 | 50.4 |
| 7042 | 48.6 |
| 7020 | 47.4 |
| 8005 | 47.0 |
| 7035 | 46.2 |
| 7024 | 41.6 |
| 8009 | 41.0 |
| 8011 | 40.6 |
| 7038 | 38.2 |
| 7044 | 36.6 |
| 7037 | 33.0 |
| 8008 | 32.4 |
| 7036 | 31.2 |

NAMES

Acosta, Alex
Allen, Louis F.
* Ambrose, Dennis P.
* Baldwin, Owen W.
Berg, Gary L.
Braden, Michael D.
Burcham, Marcie W.
Christman, Gary L.
* Culp, Elmer L.
Culp, Herbert L.
Delbridge, Randy S.
Garcia, Ernest G.
Goodhall, Milton C.
* Greene, Dale A.
* Higgins, Donald D.
Hollenbach, Thomas B.
Horacek, Jerry L.
* Jedinak, Robert J.
* Jones, Jerrel L.
Jones, John C.
Latham, James C.
* Lucas, David E.
Lugo, Fidel C.
* McDonald, James P.
McEwen, Glen C.
* Miller, Donald P.
* Nelson, Ragan
* Ozmun, Ronald J.
Padilla, Valentine M.
Payton, Donald W.
Pool, William G.
Potter, Charles W.

LAND SURVEYOR EXAMINATION RESULTS CONT'D

05740

NAMES

- * Schneider, Dennis M.
Sim, Dennis J.
- * Stewart, Tommie G.
- * Sutton, Ralph B.
Swinford, Dee W.
Thiessen, Ray E.
- * Torres, Alfonso
- * Trimble, Thomas H.
Vaughters, Donald G.
Wisniewski, Daniel C.

NCEE LAND SURVEYOR IN TRAINING
OCTOBER 1982 EXAMINATION RESULTS

GRADED LIST

05741

GRADE

NAMES

| | |
|-------|---------------------|
| 15211 | Anderson, Verdon |
| 15212 | ... |
| 15213 | ... |
| 15214 | ... |
| 15215 | * Martin, Martin H. |
| 15216 | ... |
| 15217 | * Miller, Kevin L. |
| 15218 | ... |
| 15219 | ... |
| 15220 | ... |
| 15221 | ... |
| 15222 | ... |
| 15223 | ... |
| 15224 | ... |
| 15225 | ... |
| 15226 | ... |
| 15227 | ... |
| 15228 | ... |
| 15229 | ... |
| 15230 | ... |
| 15231 | ... |
| 15232 | ... |
| 15233 | ... |
| 15234 | ... |
| 15235 | ... |
| 15236 | ... |
| 15237 | ... |
| 15238 | ... |
| 15239 | ... |
| 15240 | ... |
| 15241 | ... |
| 15242 | ... |
| 15243 | ... |
| 15244 | ... |
| 15245 | ... |
| 15246 | ... |
| 15247 | ... |
| 15248 | ... |
| 15249 | ... |
| 15250 | ... |
| 15251 | ... |
| 15252 | ... |
| 15253 | ... |
| 15254 | ... |
| 15255 | ... |
| 15256 | ... |
| 15257 | ... |

GRADE

| | |
|-------|-----|
| 15249 | ... |
|-------|-----|

AGRI-CULTURAL ENGINEERING

| | |
|-------|-----|
| 15250 | ... |
|-------|-----|

CHEMICAL ENGINEERING

| | |
|-------|-----|
| 15251 | ... |
|-------|-----|

CIVIL ENGINEERING

| | |
|-------|-----------------------|
| 15251 | Anderson, Donald F. |
| 15252 | Armenian, Nadrants |
| 15253 | Barn, Jack A. |
| 15254 | Bonally, Raymond |
| 15255 | Blais, Russell Y. |
| 15256 | Bossert, Curtis C. |
| 15257 | Breake, Thomas L. |
| 15258 | Buras, David W. |
| 15259 | Castle, Ronald M. |
| 15260 | DeWalt, Bruce |
| 15261 | Dieff, Richard W. |
| 15262 | Dunst, Gary D. |
| 15263 | Dunty, Michael J. |
| 15264 | Friedl, Frederick F. |
| 15265 | Glass, Clinton R. |
| 15266 | Goddard, Madeline F. |
| 15267 | Grooms, Frank R. |
| 15268 | Gunn, Charles P. |
| 15269 | Harris, James M. |
| 15270 | Kanovich, Joseph |
| 15271 | Lindgren, Samuel G. |
| 15272 | Luscombe, Robert M. |
| 15273 | Marks, Adreane |
| 15274 | Matthews, Daniel P. |
| 15275 | Hortonsen, Steven L. |
| 15276 | Kam, Gary S. |
| 15277 | Keenan, Benjamin E. |
| 15278 | Powell, Perry H. |
| 15279 | Rayland, David E. |
| 15280 | Schuelke, Gregory A. |
| 15281 | Talbot, Ronald L. |
| 15282 | Thurston, Wayne C. |
| 15283 | Turner, Justin R. |
| 15284 | Wagner, Harlan R. |
| 15285 | Wellsbridge, Stacy R. |
| 15286 | Wetterfeld, James A. |

GRANTED LIST

05742

ARCHITECTS

| | |
|-----------------------|-------|
| Anderson, Vernon | 15211 |
| Bacon, Max E. | 15212 |
| Barber, Richard A. | 15213 |
| Bhalla, Vijay | 15214 |
| Bohning, Scott A. | 15215 |
| Bowen, Luke R. | 15216 |
| Brownlie, Michael C. | 15217 |
| Casey, George H. | 15218 |
| Colletta, Robert M. | 15219 |
| Conner, Kenneth R. | 15220 |
| Cortez, Ernest L. | 15221 |
| Daugherty, Glenn | 15222 |
| Davidson, Stephen R. | 15223 |
| Deardorff, Robert L. | 15224 |
| Dieterich, David D. | 15225 |
| Dooling, David | 15226 |
| Elliott, Robert W. | 15227 |
| Fulton, George S. | 15228 |
| Gagnepain, Gerald J. | 15229 |
| Hessenius, Phillip J. | 15230 |
| Jackson, Michael A. | 15231 |
| Johnson, Robert P. | 15232 |
| Leibsohn, Eric | 15233 |
| Lonchar, Wayne M. | 15234 |
| McKittrick, Denis B. | 15235 |
| Maher, Joseph S. | 15236 |
| Masse, Paul | 15237 |
| Meeks, Lawrence D. | 15238 |
| Moos, Stephen L. | 15239 |
| Pang, Yin K. | 15240 |
| Pattyn, Steven W. | 15241 |
| Pea, Wayne A. | 15242 |
| Perry, James M. | 15243 |
| Pian, Robert L. | 15244 |
| Prevost, Jeffrey S. | 15245 |
| Price, Janice J. | 15246 |
| Pujadas, Jose | 15247 |
| Roberts, Judson A. | 15248 |
| Rothwell, Susanne G. | 15249 |
| Saber, Glenn A. | 15250 |
| Sheely, William W. | 15251 |
| Slife, Curtis L. | 15252 |
| Volden, Rodney F. | 15253 |
| Waldrom, William X. | 15254 |
| Willcox, Jared D. | 15255 |
| Williams, Gregg S. | 15256 |
| Wolfarth, Kim E. | 15257 |

AERONAUTICAL ENGINEER

| | |
|-------------------|-------|
| Irwin, William G. | 15258 |
|-------------------|-------|

AGRICULTURAL ENGINEER

| | |
|------------------|-------|
| Coates, Wayne E. | 15259 |
|------------------|-------|

CHEMICAL ENGINEER

| | |
|-----------------|-------|
| White, James W. | 15260 |
|-----------------|-------|

CIVIL ENGINEERS

| | |
|----------------------|-------|
| Anderson, Ronald P. | 15261 |
| Arzemanian, Andranik | 15262 |
| Barr, James N. | 15263 |
| Benally, Raymond | 15264 |
| Blais, Russell V. | 15265 |
| Bossert, Curtis C. | 15266 |
| Brake, Thomas L. | 15267 |
| Buras, David W. | 15268 |
| Cagle, Donald W. | 15269 |
| DeMuth, Britt | 15270 |
| Doell, Richard W. | 15271 |
| Donat, Gary D. | 15272 |
| Durby, Michael J. | 15273 |
| Friedl, Frederick F. | 15274 |
| Glass, Clinton M. | 15275 |
| Goddard, Madeline F. | 15276 |
| Guerra, Frank M. | 15277 |
| Guess, Charles P. | 15278 |
| Harris, James M. | 15279 |
| Kanovich, Joseph | 15280 |
| Lundgren, Samuel G. | 15281 |
| Luscombe, Robert W. | 15282 |
| Marks, Adrienne | 15283 |
| Matthews, Daniel P. | 15284 |
| Mortensen, Steven L. | 15285 |
| Munn, Gary S. | 15286 |
| Newman, Benjamin E. | 15287 |
| Powell, Perry M. | 15288 |
| Ragland, David B. | 15289 |
| Schuelke, Gregory A. | 15290 |
| Talbott, Ronald L. | 15291 |
| Thureson, Wayne E. | 15292 |
| Turner, Justin M. | 15293 |
| Wagner, Martha M. | 15294 |
| Walbridge, Stacy R. | 15295 |
| Catterfeld, James A. | 15344 |

GRANTED LIST CONT'D

15743

CIVIL ENGINEERS

| | |
|----------------------|-------|
| Wanttaja, Kevin | 15296 |
| Waterman, Richard N. | 15297 |
| Wilson, David L. | 15298 |

ELECTRICAL ENGINEERS

| | |
|---------------------|-------|
| Banerjee, Hironmoy | 15299 |
| Burson, James C. | 15300 |
| Champlin, Cary R. | 15301 |
| Darke, Douglas L. | 15302 |
| Kenyon, Scott A. | 15303 |
| Larsen, Jerry O. | 15304 |
| Walling, Charles H. | 15305 |

MECHANICAL ENGINEERS

| | |
|---------------------|-------|
| Blair, James L. | 15306 |
| Connito, Richard T. | 15307 |
| Dugan, Patrick W. | 15308 |
| Hess, Robert O. | 15309 |
| Johnson, Arthur | 15310 |
| Laessle, David L. | 15311 |
| McCloskey, Glenn R. | 15312 |
| Panuska, Brian R. | 15313 |
| Pearson, David S. | 15314 |
| Robinson, Randy J. | 15315 |
| Stout, Roger P. | 15316 |
| Wilkes, Ray E. | 15317 |

MINING ENGINEER

| | |
|--------------------|-------|
| Zappia, Michael A. | 15326 |
|--------------------|-------|

STRUCTURAL ENGINEERS

| | |
|--------------------|-------|
| Casey, Edmond T. | 15318 |
| Fejes, Leslie A. | 15319 |
| Hagedon, George G. | 15320 |
| Knebel, William F. | 15321 |
| Pacey, Michael F. | 15322 |
| Paul, Clifford R. | 15323 |
| Show, Jesse | 15324 |
| White, Warren L. | 15325 |

LAND SURVEYOR GRANTED LIST

15744

| | |
|----------------------|-------|
| Ambrose, Dennis P. | 15327 |
| Baldwin, Owen W. | 15328 |
| Culp, Elmer L. | 15329 |
| Greene, Dale A. | 15330 |
| Higgins, Donald D. | 15331 |
| Jedinak, Robert J. | 15332 |
| Jones, Jerrel L. | 15333 |
| Lucas, David E. | 15334 |
| McDonald, James P. | 15335 |
| Miller, Donald P. | 15336 |
| Nelson, Ragan | 15337 |
| Ozmun, Ronald J. | 15338 |
| Schneider, Dennis M. | 15339 |
| Stewart, Tommie G. | 15340 |
| Sutton, Ralph B. | 15341 |
| Torres, Alfonso | 15342 |
| Trimble, Thomas H. | 15343 |

LAND SURVEYOR IN TRAINING GRANT LIST

5745

85745

MINUTES OF THE BOARD OF TECHNICAL REPRESENTATIVES

MINUTES

Martin, Martin H.
Miller, Kevin L.

1
2

CALL TO ORDER:

The regular meeting of the State Board of Technical Representatives held in Room 100 of the Civil Engineering Building, University of Arizona, Tucson, Arizona, was called to order by Chairman Jimmie K. Hunt at 9:10 a.m.

PRESIDENT: Jimmie K. Hunt, Chairman

John E. Riggs, Vice-Chairman

Ellis G. Brown, Secretary

Paul Collins, Member

Henry G. Donald, Member

Ronald J. Minnick, Member

Robin A. Morris, Member

Charles E. O'Sullivan, Member

Stanley F. Palmer, Member

Those present constituted a quorum.

II. EXECUTIVE SESSION:

It was moved by Mr. Duxford and seconded by Mr. Brown that the board convene in Executive Session. The Board reconvened in Open Session at 10:45 a.m.

III. ADOPTION OF MINUTES:

It was moved by Mr. Riggs and seconded by Mr. Collins that the following minutes be adopted as written:

- A. Special Meeting, August 13, 1982
- B. Regular Meeting, September 10, 1982
- C. Special Meeting, September 21, 1982
- D. Special Meeting, October 12, 1982
- E. Special Meeting, October 28, 1982

Mr. Donald moved to amend the motion that the Special Meeting, August 13, 1982, be corrected on Page 3 to read "...that the Land Surveyor Member of the Board be allowed to be on the committee of land surveyors to write the local laws for land surveyors." He stated that there had probably been an error in the motion but he requested that the minutes reflect that he did make that motion. Mr. Sheets pointed out to Mr. Donald that only successful motions are included in the minutes. Mr. Donald informed the Board that he would like it added to the minutes. It was moved by Mr. Duxford and seconded by Mr. Collins to amend the minutes of August 13, 1982, in that regard. MOTION CARRIED.

MINUTES

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

REGULAR MEETING

MARCH 18, 1983

I. CALL TO ORDER:

The regular meeting of the State Board of Technical Registration held in Room 100 of the Civil Engineering Building, University of Arizona, Tucson, Arizona, was called to order by Chairman Jimmie R. Nunn at 9:10 a.m.

PRESENT: Jimmie Nunn, Chairman
 John B. Riggs, Vice-Chairman
 Silas C. Brown, Secretary
 Paul Cella, Member
 Hector C. Durand, Member
 Ronald J. Mlnarik, Member
 Robin A. Morris, Member
 Charles E. O'Bannon, Member
 Stewart R. Palmer, Member

Those present constituted a quorum.

II. EXECUTIVE SESSION:

It was moved by Mr. Durand and seconded by Mr. Brown that the Board convene in Executive Session. The Board reconvened in Open Session at 10:45 a.m.

III. ADOPTION OF MINUTES:

It was moved by Mr. Riggs and seconded by Mr. Cella that the following minutes be adopted as written:

- A. Special Meeting, August 13, 1982
- B. Regular Meeting, September 10, 1982
- C. Special Meeting, September 21, 1982
- D. Special Meeting, October 12, 1982
- E. Special Meeting, October 20, 1982

Mr. Durand moved to amend the motion that the Special Meeting, August 13, 1982, be corrected on Page 5 to read "...that the Land Surveyor Member of the Board be allowed to be on the committee of land surveyors to write the local exam for land surveyors." He stated that there had probably been no second to the motion but he requested that the minutes reflect that he did make that motion. Mr. Sheets pointed out to Mr. Durand that only successful motions are included in the minutes. Mr. Durand informed the Board that he would like it added to the minutes. It was moved by Mr. Durand and seconded by Mr. Cella to amend the minutes of August 13, 1982, in that regard. MOTION CARRIED.

Regular Meeting
 March 18, 1983

It was moved by Mr. Riggs and seconded by Mr. Durand to remove August 13, 1982, and to adopt the four minutes as written. MOTION CARRIED.

IV. ENFORCEMENT ACTION:

- A. C80-36 BTR vs. William Couglin, PE (Civil) #10493

It was moved by Mr. Riggs and seconded by Mr. Cella that the case be closed. MOTION CARRIED.

- B. C80-100 BTR vs. William Ramsey, PE (Civil) #06312

It was moved by Mr. Riggs and seconded by Mr. Durand that the Chairman be authorized to send a letter to Mr. Ramsey requesting payment and indicating that the Board's next action will be to proceed with formal enforcement procedures if the fine is not received within fourteen (14) days. MOTION CARRIED.

- C. C80-107 BTR vs. Wilson Austin, LS #04055

The Board was given a status report on the case and no action was required.

- D. C81-11 BTR vs. SAGE Engineering

It was moved by Mr. Riggs and seconded by Mr. Palmer that the case be closed. MOTION CARRIED.

- E. C81-22 BTR vs. Schwenn & Clark, Architects.

It was moved by Mr. Riggs and seconded by Mr. Cella that the case be left open and monitored periodically. MOTION CARRIED.

It was moved by Mr. Riggs and seconded by Mr. Cella that a letter be sent from the Board to the Public Building Division requesting an investigation of the causes of vibration in the Occupational Licensing Building and further that we request a copy of the investigation be sent to the Board. MOTION CARRIED.

- F. C81-65 BTR vs. Kenneth L. Ricker, PE (Civil) #10971

It was moved by Mr. Riggs and seconded by Mr. Durand that the case be closed. MOTION CARRIED. Dr. O'Bannon declared a conflict of interest.

- G. C82-002 BTR vs. Michael Dailey

The Board was given a status report on the case and no action was required.

H. Enforcement Status Report:

Mr. Dalrymple reported to the Board that the status report shows that we had 56 miscellaneous activity reports pending the first of the month. We received 6 reports during the month of February and we did not close any miscellaneous activity reports out that month leaving us with 62 open miscellaneous activity files at the end of the month. Cases pending at the beginning of the month were 43; we did not open any cases; we closed 2 cases during the month leaving 41 cases pending at the end of the month.

V. EVALUATION COMMITTEE REPORTS (pages 5754 through 5766 of the Minutes)

- A. It was moved by Mr. Riggs and seconded by Mr. Cella that the applicants as shown on page 5757 of these minutes, Anderson through Westrum, be granted registration. MOTION CARRIED.
- B. It was moved by Mr. Riggs and seconded by Mr. Cella that the applicants listed on pages 5755-5756 of these minutes, Mr. Kennedy through Mr. Willis, be held for the examinations as indicated. The motion was amended by Dr. O'Bannon to have Mr. John H. Jahnke removed from the list under land surveyor and held for part 3 of the examination. Hector Durand seconded the amendment. Mr. Durand expressed strong objections to applicants being permitted to take the examination for land surveying until the new rules are in effect. He stated that the Board is not being consistent in its policy of letting applicants take the exam even though we do not have rules. Mr. Sheets requested that the record show that from numerous comments he has received from the Attorney General's Office, there is concern being expressed that these people are being impeded in being granted licensing. Mr. Durand stated that he wanted to make the record clear that if a man is qualified, he should have the privilege of practicing as a professional. The vote of the amendment of the motion carried. Mr. Riggs stated that since he had made the original motion, he requested a clarification or an addition to the original motion stating that the Board write to the land surveyors indicating that under the pre-evaluation they would be permitted to take the examination, but that they would be evaluated when the new rules are in effect. Mr. Cella seconded that amendment. The original motion was to approve the names on page 5755 and the top half of page 5756 of these minutes to take the exam; it was amended to remove Jahnke from the list and further amended to notify all the land surveyors of the re-evaluation of their file after the examination. Mr. Sheets suggested that the letter should read: "You have been authorized to take the examination, however, you should be advised that the formal evaluation of your credentials will not occur until after the effective date of the new rules." MOTION CARRIED WITH THE TWO AMENDMENTS.

- C. It was moved by Dr. O'Bannon and seconded by Mr. Durand that Mr. John A. Jahnke's name be put on page 5766 and he be required to take the examination for part 3. MOTION CARRIED.
 - D. It was moved by Mr. Riggs and seconded by Mr. Durand that the applicants listed on page 5766 of these minutes, Mr. Aggarwal through Mr. Swan, be denied for failure to meet the requirements of the Board. MOTION CARRIED.
 - E. It was moved by Mr. Riggs and seconded by Mr. Durand that the following applicants, Cole and Stuart be denied registration for failure to complete the requirements of the Board within a reasonable length of time. MOTION CARRIED.
 - F. It was moved by Mr. Riggs and seconded by Mr. Durand that the applicants Kleyman and Evans be denied registration, with neither prejudice nor refund, at their own request. MOTION CARRIED.
- VI. GRANTING OF REGISTRATIONS:
- A. Professional Registrations:
 - 1. It was moved by Mr. Riggs and seconded by Mr. Durand to grant registration to the applicants listed on page 5757 of these minutes with the appropriate numbers as shown: Anderson through Westrum, eliminating Mr. Jahnke from the list. MOTION CARRIED.
 - B. In-Training Registrations:
 - 1. It was moved by Mr. Riggs and seconded by Mr. Durand that the applicants listed on page 5758 of these minutes be granted EIT registration with the appropriate numbers. MOTION CARRIED.
- VII. REPORT OF THE RULES COMMITTEE - STATUS OF THE PROPOSED RULES:
- Ms. Ross reported that on March 17, the rules were filed with the Governor's Committee, and their hearing scheduled for April 5. The rules go from the Governor's Committee to the Secretary of State's Office in order to meet her publication deadline. The Board then must wait for a minimum of 20 days before it can hold the public hearing. The public hearing has been scheduled for 9:00 a.m., May 24, 1983, in the West Wing at the State Capitol.

VIII. EMERGENCY RULES, PROMULGATION - Fee Schedule, Architectural Examinations:

It was moved by Mr. Riggs and seconded by Mr. Cella that the draft of the emergency rules, Architect Examination Fees, be amended to read on page 2 - the fee for Division A-Pre-design would be \$45 in lieu of \$48 and in Division I it would be changed to \$35 in lieu of \$37. MOTION CARRIED.

It was moved by Mr. Riggs and seconded by Mr. Durand, that the Board adopt, as an emergency rule (Architect examination fees) the amendments to the rule R4-30-28 as indicated in the attached document subject to certification by the Attorney General. MOTION CARRIED.

IX. PUBLIC COMMENT:

Bill Marum, 232 East 6th Street, telephone #624-1793, discussed the comments regarding the profession of Land Surveying or the professionals that are licensed now and are attempting to restrict entrance to the profession. He stated that that is totally incorrect. Their goal is the protection of the public, to insure that only competent, qualified applicants are licensed whether they are land surveyor applicants who are not licensed in any other state or are licensed in another state which has a different set of surveying standards or they are registered through another discipline and surveying is incidental to their profession. He stated that a person should be qualified through experience and qualifications before being allowed to take the examination and did not feel that the on-going litigation has stopped the licensing process.

It was moved to adjourn and reconvene for lunch.

Mr. Steven Hess, Arizona Engineering Association, expressed the feeling that better communication between the registrants and the Board should be promoted and it could best be handled by a newsletter or information being sent to the different associations. The main reason for his appearance at the meeting was to discuss establishing comity between Arizona and California in the area of structural engineering. Mr. Hess discussed the problems that an applicant from Arizona encounters seeking registration as a structural engineer with California and Nevada. He reviewed the structural exam that is given by California and stated that California would be very interested in giving the exam to another state to use, provided that it is given on the same day and with similarities in registration as well. The Structural Engineering Association would like to see comity within the western states.

Mr. Cella requested staff write a letter to California for more information about their examination and requirements for registration of structural engineers. Mr. Palmer suggested that the Structural Engineering Society petition the Board to look into what the Board can

do about having the examination and registration conform with other western states.

Ms. Ross addressed the matter of a newsletter and discussed the problems the Board has faced each year in getting legislative approval. This year funding for a newsletter was put into the budget as a specific program change request, but we would have to see whether money is made available for that request.

X. REPORT OF THE BUDGET COMMITTEE:

- A. Financial Report - Ms. Ross discussed the financial projection for the end of the fiscal year. All travel requests should be submitted as soon as possible in order for staff to ascertain the status of monies. Mr. Riggs discussed the amount of staff work involved in the budget process.
- B. Status Report - 1982-83 Supplemental (HB 2368 and 1983-84 appropriations request. Ms. Ross discussed the 1983-84 appropriations request and the amounts requested for each area. Mr. Riggs would like the Budget Committee to meet in May.

XI. REPORT OF THE LEGISLATIVE COMMITTEE:

- A. Status Reports - SB 1180 (Engineers/Land Surveyors) and SB 1185 (State Funds Use). Ms. Ross informed the Board that we should not introduce any new legislation next year since the Board has been before the legislature for the last few years.
- B. SB 1180 - Engineers/Land Surveyors, has passed the Senate and is now in the House.
- C. SB 1085 - Ms. Ross informed the Board that it has passed both houses. This bill legalizes the co-mingling of certain funds to help the cash-flow problem. She stated that the way the bill is written it does not say it could co-mingle the funds, it just says that they could use the funds. Nothing is said about borrowing or putting back the funds, it just says that the legislature could use them.

XII. UNFINISHED BUSINESS:

- A. Settlement - Al Stevens - It was moved by Mr. Brown and seconded by Mr. Cella that the Chairman be allowed to sign the letter to Mr. Stevens, as proposed by the Attorney General's office. The letter was amended to read: "the now former Landscape Architect member". It was moved by Mr. Brown and seconded by Mr. Cella that the Chairman and the Executive Director be authorized to sign the letter as revised by Mr. Sheets. A conflict of interest was declared by Dr. O'Bannon. MOTION CARRIED with one no. Dr. O'Bannon abstained.

- B. Status Report - Local Portion, Professional Land Surveyor Examination. Ms. Ross requested the Land Surveyor examination be reviewed by the Board and at a later date hold a telephone conference for formal adoption of the exam. The Tucson members of the Board were appointed to review the examination and report to the Board. Ms. Ross requested that the committee meet the following week.

Professor Newman discussed the preparation of the examination. The committee will meet and grade the examination and they are recommending a passing grade of 70%. He also stated that the committee would volunteer their time on grading of the examination to take the load off the Board.

- C. WCARB. The WCARB meeting in California was discussed by Mr. Nunn. He discussed the resolution that was reached at the meeting requiring an accredited degree before an architect can get NCARB certified. He stressed that an alternate program was worked on to allow an applicant who does not have an accredited degree to still be eligible for NCARB certification.

The Board discussed having a few land surveyors take the examination to use as a guideline for determining the difficulty of the examination.

It was moved by Mr. Durand that the Board, aside from the recommendation to let people see the continuing examination, adopt the recommendation from the committee that the test be graded by the committee with a passing grade of 70%. The motion was dismissed for lack of a second.

XIII. NEW BUSINESS

- A. Letter from Terry Ramsey - Metallurgical and Mining Engineering
Mr. Ramsey expressed dissatisfaction with the examination for metallurgical and mining examination being offered only once a year, as it takes quite awhile for the processing of an application and if the applicant misses the exam it could take 18 months to be registered. It was suggested that staff contact NCEE requesting that the exam be given more than once a year. Ms. Ross will express the Board's concern to NCEE, but stated we have no choice in this matter.
- B. Letter from Jeff Andrews - Examination Proctoring - The Board reviewed the letter received from Mr. Andrews and Ms. Ross stated that she was unaware of any problems at any of the examination sites. She has taken steps to increase the procturing and, specifically at the Phoenix site, they will have a staff member oversee the exam. The Board requested staff to set up a new way of procturing and means of controlling the sites and registration. It was stressed that an examinee should have to show some picture identification to be allowed in the examination room.
- C. June Board Meeting - Date: June 10, 1983 will be the next regular Board meeting.

XIV. ADJOURNMENT

It was moved by Dr. O'Bannon and seconded by Mr. Brown to adjourn the meeting.
MOTION CARRIED.

SUBJECT: Registration Applicants

The Board and Examiners Evaluation Committee, meeting jointly on February 17, 1983 in Room 106 of the Occupational Licensing Building, 1645 N. Jefferson, Phoenix, Arizona, made the following recommendations.

The following applicants, having satisfied the Committee that they are fully qualified to receive registration in Arizona under A.R.S. 32-122.01 and A.R.S. 32-124, are being recommended for registration.

ARCHITECTS

| | |
|------------------------|--------|
| Anderson, Brian C. | 82-993 |
| Chapman, Eugene R. | 82-179 |
| Dean, Harold R. | 82-278 |
| Lawrence, Robert B. | 82-538 |
| Lucas, Theodora | 83-101 |
| Pross, Mylan K. | 83-001 |
| Robinson, Richard B. | 82-816 |
| Wilderhoffer, James M. | 83-130 |
| Wagner, Pat | 82-060 |
| Trickam, Clifford | 83-052 |
| Winters, Michael D. | 83-105 |

LANDSCAPE ARCHITECTS

| | |
|------------------------|---------|
| Wendelbarger, Wayne L. | 82-1000 |
| Wick, Craig B. | 82-931 |
| Winters, William R. | 82-921 |

CIVIL ENGINEERS

| | |
|------------------|--------|
| Atty, Stephen L. | 82-424 |
| Wid, Harold A. | 83-003 |
| Wu, Jackson | 83-062 |

CIVIL ENGINEERS

| | |
|-----------------------|--------|
| Collins, Allan W. | 82-294 |
| DeWitt, John S. | 82-077 |
| Garrison, Lawrence J. | 81-048 |
| Haines, Thomas R. | 82-837 |
| Hall, Phillip B. | 82-026 |
| Hart, James E. | 82-077 |
| McDonnell, Edward | 82-274 |
| McGowan, Gerald L. | 82-253 |
| McDonald, Joseph D. | 82-861 |
| Wright, Russell L. | 82-847 |
| Wynn, Dick J. | 81-080 |
| Glenn, John C. | 82-735 |
| Fayette, Robert C. | 82-985 |

CIVIL ENGINEERS

| | |
|---------------------|--------|
| Politt, Dennis L. | 82-888 |
| Pope, Lloyd R. | 82-817 |
| Prosser, Richard A. | 82-420 |

ELECTRICAL ENGINEERS

| | |
|-----------------|--------|
| Kuhl, Thomas J. | 82-481 |
| Peters, Herbert | 82-430 |

Mechanical Engineers

| | |
|----------------------|---------|
| Christman, Marlan T. | 82-1708 |
| Frank, John D. | 82-448 |
| Lincoln, Carl T. | 82-046 |
| Parriott, Ronald V. | 82-074 |
| Sanders, Michael G. | 82-855 |
| Zizza, Michael | 82-837 |

Sanitary Engineers

| | |
|-------------------------|--------|
| Smith, James L. | 82-810 |
| Wagner, Eugene Thompson | 81-919 |
| Werscheider, Michael | 82-385 |

Structural Engineers

| | |
|------------------|--------|
| Chang, Ping-Song | 82-813 |
| Fogg, Eugene C. | 82-084 |
| Whaley, Larry R. | 82-929 |

Geologist

| | |
|---------------------|--------|
| Epifanio, Howard A. | 83-077 |
|---------------------|--------|

Land Surveyors

| | |
|----------------------|--------|
| Bakken, Harold V. | 83-071 |
| Bentach, Werner | 82-619 |
| Girard, Albert A. | 82-026 |
| Johnson, Don A. | 82-832 |
| McDonald, Joseph D. | 82-861 |
| Olund, Robert E. | 83-026 |
| Prosser, Richard A. | 82-420 |
| Pope, Lloyd R. | 82-817 |
| Standaert, Howard W. | 81-028 |
| Winters, William R. | 82-921 |

TO: Board of Technical Registration
 FROM: Evaluation Committees
 SUBJECT: Evaluation of Applicants

The Phoenix and Tucson Evaluation Committees, meeting jointly on February 17, 1983 in Room 126 of the Occupational Licensing Building, 1645 W. Jefferson, Phoenix, Arizona, made the following recommendations.

- The following applicants, having satisfied the Committees that they are fully qualified to received registration in Arizona under A.R.S. 32-122.01 and A.R.S. 32-126, are hereby recommended for registration:

| | | | |
|-----------------------------|---------|-----------------------------|---------|
| <u>ARCHITECTS</u> | | <u>CIVIL ENGINEERS</u> | |
| Anderson, Brian C. | 82-993 | Polhill, Dennis L. | 82-846 |
| Cloyes, Eugene H. | 83-113 | Pope, Lloyd R. | 82-913 |
| Conn, Harold M. | 82-216 | Prosenice, Richard A. | 82-480 |
| Cousins, Robert B. | 82-598 | <u>ELECTRICAL ENGINEERS</u> | |
| Curtis, Theodore | 83-101 | Krob, Thomas J. | 82-881 |
| Faust, Harlan R. | 83-081 | Peters, Herbert | 82-680 |
| Friedson, Richard B. | 82-815 | <u>MECHANICAL ENGINEERS</u> | |
| Heilbronner, James M. | 83-130 | Christmas, Harlan F. | 82-1004 |
| Magruder, Pat | 83-060 | Frank, John D. | 82-646 |
| Trinkaus, Clifford | 83-052 | Lincoln, Carl T. | 83-044 |
| Wirtanen, Michael D. | 83-103 | Parriott, Ronald D. | 83-014 |
| <u>LANDSCAPE ARCHITECTS</u> | | Semmens, Michael G. | 82-855 |
| Buggenhagen, Wayne L. | 82-1000 | Zizza, Michael | 82-892 |
| Park, Craig D. | 82-930 | <u>SANITARY ENGINEERS</u> | |
| Pearson, Tillmon R. | 82-921 | Hewitt, James L. | 82-510 |
| <u>CHEMICAL ENGINEERS</u> | | Jensen, Eugene Thompson | 81-919 |
| Kelly, Stephen T. | 82-624 | Verschelden, Michael | 82-395 |
| Wild, Randall L. | 83-003 | <u>STRUCTURAL ENGINEERS</u> | |
| Yu, Jackson | 83-063 | Chang, Ging-Song | 82-513 |
| <u>CIVIL ENGINEERS</u> | | Figg, Eugene C. | 83-084 |
| Collins, Allan W. | 82-994 | Whaley, Larry E. | 83-024 |
| Dando, Jose, S. | 83-011 | <u>GEOLOGIST</u> | |
| Gardner, Lawrence J. | 83-048 | Spellman, Howard A. | 83-077 |
| Haines, Thomas G. | 82-899 | <u>LAND SURVEYORS</u> | |
| Hall, Philip G. | 82-885 | Bakken, Harold W. | 83-071 |
| Hewitt, James L. | 82-511 | Brutsch, Werner | 83-049 |
| Hockensmith, Edward | 83-074 | Girard, Albert R. | 83-026 |
| Klabbers, Leopold L. | 82-253 | Jahnke, Jon A. | 82-622 |
| McDonald, Joseph D. | 82-861 | McDonald, Joseph D. | 82-860 |
| Miracle, Russell L. | 82-347 | Oslund, Robert B. | 83-096 |
| Morris, Rick J. | 83-090 | Pieski, Herman A. | 82-843 |
| Olson, John C. | 82-730 | Pope, Lloyd R. | 82-914 |
| Payette, Robert C. | 82-986 | Standage, Howard R. | 81-029 |
| | | Westrum, Rodney A. | 82-692 |

2. The following applicants were evaluated by the Committees and it is recommended that these individuals be held for examinations as indicated:

ARCHITECTS

| | | |
|------------------------|--------|-----------------------------|
| Kennedy, Glenn R. | 81-529 | Divisions A,B,C,D,E,F,I |
| Kirschenbaum, Eddie H. | 83-040 | Divisions A,B,C,D,E,F,G,H,I |
| Ottum, Duane C. | 82-783 | Divisions A & I |
| Sears, Matthew W. | 83-079 | Divisions A & I |
| Violette, Michael B. | 83-094 | Divisions A,B,C,D,E,F,G,H,I |

CHEMICAL ENGINEERS

| | | |
|-------------------|--------|---------------|
| Bhargava, Prabhat | 83-097 | Parts 3 & 4 |
| Davis, John D. | 83-015 | Parts 1,2,3,4 |

CIVIL ENGINEERS

| | | |
|------------------------|--------|---------------|
| Ash, Nancy K. | 83-006 | Parts 3 & 4 |
| Bale, Ryan G. | 82-961 | Parts 3 & 4 |
| Bryce, Michael R. | 83-075 | Parts 3 & 4 |
| Deatherage, James D. | 83-030 | Parts 3 & 4 |
| Gavan, Mark T. | 83-045 | Parts 3 & 4 |
| Gifford, Stephen V. | 83-062 | Parts 3 & 4 |
| Goodyear, Robert E. | 83-064 | Parts 3 & 4 |
| Harrington, Michael J. | 83-038 | Parts 3 & 4 |
| Harris, James E. | 82-871 | Parts 3 & 4 |
| Iannarino, Robert J. | 82-945 | Parts 3 & 4 |
| Keita, Koumou | 83-078 | Parts 1,2,3,4 |
| Kohout, Michael L. | 83-022 | Parts 3 & 4 |
| Meadows, Glenn A. | 82-983 | Parts 3 & 4 |
| Palma, Raul B. | 81-504 | Parts 3 & 4 |
| Slate, Lee E. | 83-032 | Parts 3 & 4 |
| Svor, Nick D. | 83-073 | Parts 3 & 4 |
| Tadano, Richard S. | 83-088 | Parts 3 & 4 |
| Vail, William R. | 82-980 | Parts 3 & 4 |

ELECTRICAL ENGINEERS

| | | |
|------------------|--------|---------------|
| Cousy, Robert E. | 83-009 | Parts 1,2,3,4 |
| Hypse, Mark L. | 83-023 | Parts 3 & 4 |
| Perry, Wayne H. | 83-055 | Parts 1,2,3,4 |
| Shaw, Alex Lung | 82-663 | Parts 1,2,3,4 |

MECHANICAL ENGINEERS

| | | |
|-----------------------|--------|-------------|
| Bloomfield, David C. | 83-082 | Parts 3 & 4 |
| Carragher, Joseph A. | 83-047 | Parts 3 & 4 |
| Chen, Barry B. | 83-013 | Parts 3 & 4 |
| Deshmukh, Prakash Y. | 82-664 | Parts 3 & 4 |
| Fish, William H. | 82-809 | Parts 3 & 4 |
| Holstein, Jeffery L. | 82-557 | Parts 3 & 4 |
| McDaniel, T. E. | 83-072 | Parts 3 & 4 |
| Thomas, Richard G. | 83-028 | Parts 3 & 4 |
| Weinbrecht, Edward A. | 83-110 | Parts 3 & 4 |

Evaluation Committees Report - Cont'd

STRUCTURAL ENGINEERS

| | | |
|--------------------|--------|-------------------|
| Black, Gregory D. | 83-016 | Parts 5 & 6 |
| Hamilton, Harry H. | 82-912 | Parts 5 & 6 |
| Puicon, Michael T. | 82-399 | Parts 1,2,3,4,5,6 |

LAND SURVEYORS

| | | |
|-----------------------|--------|-------------|
| Binge, Michael L. | 83-054 | Parts 2 & 3 |
| Borrelli, Michael A. | 82-870 | Parts 1,2,3 |
| Fitzgerald, Sidney R. | 82-318 | Parts 1,2,3 |
| Gurney, Benedict R. | 82-857 | Parts 1,2,3 |
| Hall, Darrell C. | 82-887 | Parts 1,2,3 |
| Isaacson, Kenneth K. | 82-660 | Parts 1,2,3 |
| Jensen, Hans C. | 81-872 | Parts 1,2,3 |
| McRae, Jerry B. | 82-277 | Parts 1,2,3 |
| Pressnall, Don C. | 82-149 | Parts 1,2,3 |
| Shannon, Don T. | 82-474 | Parts 1,2,3 |
| Willis, Norman G. | 82-842 | Parts 1,2,3 |
| Jahnke, Jon A. | 82-622 | Part 3 |

3. The Committees recommended that the following applicants be denied for failure to meet the requirements of the Board:

| | | |
|---------------------|-----------------------|---|
| Aggarwal, Deepak H. | 83-080(Civil) | Denied for lack of 12 months experience |
| Dunlop, John H. | 82-823(Civil) | Denied for lack of 6 months experience |
| Palermo, Michael J. | 82-065(Civil) | Denied for lack of 8 months experience |
| Marsh, William J. | 82-327(Land Surveyor) | Denied for lack of 6 years experience |
| Swan, Gary G. | 82-978(Land Surveyor) | Denied for lack of 2 years experience |

4. The following applicants should be denied registration for failure to complete the requirements of the Board within a reasonable length of time:

| | | |
|--------------------|-----------------------------|------------------|
| Cole, Vernon S. | 81-272(Land Surveyor) | Unable to locate |
| Stuart, Curtiss N. | 78-351(Mechanical Engineer) | Unable to locate |

5. The following applicants should be denied registration with neither prejudice nor refund at their own request:

| | |
|---------------------|-----------------------------|
| Kleyman, Grigory S. | 82-872(Electrical Engineer) |
| Evans, Roy L. | 82-141(Land Surveyor) |

ARCHITECTS

| | |
|-----------------------|-------|
| Anderson, Brian C. | 15346 |
| Cloyes, Eugene H. | 15347 |
| Conn, Harold M. | 15348 |
| Cousins, Robert B. | 15349 |
| Curtis, Theodore | 15350 |
| Faust, Harlan R. | 15351 |
| Friedson, Richard B. | 15352 |
| Heilbronner, James M. | 15353 |
| Magruder, Pat K. | 15354 |
| Trinkaus, Clifford J. | 15355 |
| Wirtanen, Michael D. | 15356 |

LANDSCAPE ARCHITECTS

| | |
|-----------------------|-------|
| Buggenhagen, Wayne L. | 15357 |
| Park, Craig D. | 15358 |
| Pearson, Tillmon R. | 15359 |

CHEMICAL ENGINEERS

| | |
|-------------------|-------|
| Kelly, Stephen T. | 15360 |
| Wild, Randall, L. | 15361 |
| Yu, Jackson | 15362 |

CIVIL ENGINEERS

| | |
|------------------------|-------|
| Collins, Allan W. | 15363 |
| Dando, Jose S. | 15364 |
| Gardner, Lawrence J. | 15365 |
| Haines, Thomas G. | 15366 |
| Hall, Philip G. | 15367 |
| Hewitt, James L. | 15368 |
| Hockensmith, Edward H. | 15369 |
| Klabbers, Leopold L. | 15370 |
| McDonald, Joseph D. | 15371 |
| Miracle, Russell L. | 15372 |
| Morris, Rick J. | 15373 |
| Olson, John C. | 15374 |
| Payette, Robert C. | 15375 |
| Polhill, Dennis L. | 15376 |
| Pope, Lloyd R. | 15377 |
| Prosenice, Richard A. | 15378 |

ELECTRICAL ENGINEERS

| | |
|-----------------|-------|
| Krob, Thomas J. | 15379 |
| Peters, Herbert | 15380 |

MECHANICAL ENGINEERS

| | |
|----------------------|-------|
| Christmas, Harlan F. | 15381 |
| Frank, John D. | 15382 |
| Lincoln, Carl Tilley | 15383 |
| Parriott, Ronald D. | 15384 |
| Semmens, Michael G. | 15385 |
| Zizza, Michael | 15386 |

SANITARY ENGINEERS

| | |
|----------------------|-------|
| Hewitt, James L. | 15387 |
| Jensen, Eugene T. | 15388 |
| Verschelden, Michael | 15389 |

STRUCTURAL ENGINEERS

| | |
|------------------|-------|
| Chang, Ging-Song | 15390 |
| Figg, Eugene C. | 15391 |
| Whaley, Larry E. | 15392 |

GEOLOGIST

| | |
|---------------------|-------|
| Spellman, Howard A. | 15393 |
|---------------------|-------|

LAND SURVEYORS

| | |
|---------------------|-------|
| Bakken, Harold W. | 15394 |
| Brutsch, Werner | 15395 |
| Girard, Albert | 15396 |
| | 15397 |
| McDonald, Joseph D. | 15398 |
| Oslund, Robert B. | 15399 |
| Pieski, Herman A. | 15400 |
| Pope, Lloyd R. | 15401 |
| Standage, Howard R. | 15402 |
| Westrum, Rodney A. | 15403 |

ENGINEER-IN-TRAINING GRANTED LIST

15758

| | |
|----------------------|------|
| Anderson, Leo K. | 2849 |
| Barkley, Shauna | 2850 |
| Bauer, Mark J. | 2851 |
| Billington, Buddy L. | 2852 |
| Bogdanski, Ronald D. | 2853 |
| Canez, Juan L. | 2854 |
| Chen, Hsien-WU | 2855 |
| Cord, Gregory A. | 2856 |
| Delaney, James E. | 2857 |
| Edwards, Glen A. | 2858 |
| Erlick, John R. | 2859 |
| Gomez, Miguel A. | 2860 |
| Grant, John K. | 2861 |
| Grenier, John E. | 2862 |
| Gudeman, Scott G. | 2863 |
| Harary, Robert M. | 2864 |
| Healy, Brian J. | 2865 |
| Hedlund, Eric | 2866 |
| Hummel, Michael | 2867 |
| Huppler, Thomas R. | 2868 |
| Irish, David | 2869 |
| Joe, Gary L. | 2870 |
| Johnson, Lawrin V. | 2871 |
| Long, Michael W. | 2872 |
| Madaghiele, Raymond | 2873 |
| McDole, Kerry R. | 2874 |
| Povadora, Rolando S. | 2875 |
| Ruebsamen, Dale T. | 2876 |
| Russell, Robert A. | 2877 |
| Sawan, Hassan T. | 2878 |
| Schauer, Steven T. | 2879 |
| Schreier, Ronald D. | 2880 |
| Simpson, Daniel L. | 2881 |
| Smith, Michael | 2882 |
| Smolinsky, Robert J. | 2883 |
| Thompson, Corey R. | 2884 |
| Toci, Charles P. | 2885 |
| Vlams, Nicholas G. | 2886 |
| Wallace, Steven W. | 2887 |
| Wilson, Robert D. | 2888 |
| Worley, James M. | 2889 |

M I N U T E S

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

OPEN SESSION
APRIL 8, 1983

5759

CALL TO ORDER

The special meeting of the State Board of Technical Registration, held by telephone conference was called to order by Chairman Jimmie Nunn at 10:30 a.m. Roll call was taken of all Board members.

PRESENT: Jimmie B. Nunn, Chairman
John B. Riggs, Vice-chairman
Silas C. Brown, Secretary
Paul W. Cella, Member
Hector C. Durand, Member
Ronald J. Mlnarik, Member

Bruce Rosenhan, Asst. to the Director
Ronald Dalrymple, Investigation Supervisor
LaVern Douglas, Examiner Technician
Margie Holmes, Administrative Secretary

II. It was moved by Mr. Durand and seconded by Mr. Riggs to convene in Executive Session. MOTION CARRIED. At the conclusion of the Executive Session, the Board reconvened in Open Session.

III. LOCAL PORTION PROFESSIONAL LAND SURVEYOR EXAMINATION - REVIEW OF EXAMINATION QUESTIONS

Mr. Durand expressed dissatisfaction with the present title given to the examination. He would like the examination called "Arizona Surveying and Legal Examination."

It was moved by Mr. Durand and seconded by Mr. Cella to strike question number 41 from the test. A roll call vote was taken with the motion passing by a majority vote of 5-1 with Mr. Nunn voting "no". MOTION CARRIED.

It was moved by Mr. Riggs and seconded by Mr. Durand that the Land Surveyor Examination Committee be sent a letter requesting their continued cooperation and work on setting up supplemental examinations. MOTION CARRIED.

IV. CERTIFICATION OF EXAMINATION SCORES

It was moved by Mr. Riggs and seconded by Mr. Durand that Mr. John Daru's examination scores be corrected and show a passing grade. MOTION CARRIED.

V. GRANTING OF REGISTRATION

It was moved by Mr. Riggs and seconded by Mr. Cella to grant Mr. John Daru registration with #15404 as his number. MOTION CARRIED.

VI. LEGISLATIVE STATUS REPORT

Mr. Rosenhan reported that SB 1180 has passed both Houses and has been signed by the Governor. A copy will be sent to each Board member.

Telephone Conference Meeting
April 8, 1983

5761
5760

Mr. Rosenhan reported on HB 2386, the supplemental appropriation bill seems to be moving and it is at the Governor's office for signature. There appears to be no problem and the bill should be signed.

VII. RULES STATUS REPORT

Mr. Dalrymple reported that Professor Rose requested information that was not included in the original impact statement. Professor Rose stated that he would like the Board to address the impact of the rules, referencing a barrier to trade - 8 years of experience. The Governor's committee decided to hold the material until the Board has had a chance to meet with Professor Rose and come to an agreement on how he would like the impact statement and rules worded. After the Board has met with Professor Rose and done a re-write the Governor's committee will hold a telephone conference to approve the rules. They are trying to do everything that they can do to help us so that the Board can hold the Public Meeting as scheduled on May 24, 1983.

Mr. Cella discussed Appendix F. He stated that APLS feels that they cannot support Appendix F as it is presently written. Mr. Durand stated that Appendix F would have a tremendous impact on the public. He expressed concern regarding enforcement if Appendix F was adopted.

Mr. Nunn stated that the ruling of whether or not it is a major change is up to the Attorney General's Office.

VIII. SENATE BILL 1180

Mr. Durand discussed the major legislation that was just signed by the Governor regarding registering land surveyors.

It was moved by Riggs and seconded by Mr. Cella to adjourn the meeting. MOTION CARRIED.

A. Public Hearing Concerning Proposed Rules

1. Convening of hearing - Mr. Riggs welcomed the public to the hearing and introduced the Board Members who were present. He requested that the record reflect the presence of the Executive Director, Judi Ross, and of the representative of the Attorney General, Gary L. Sheets. He explained that the purpose of this hearing is to provide the public an opportunity to comment on the proposed new rules for the State Board of Technical Registration and that the proposed amendments were reviewed by the Governor's Regulatory Review Council and have been filed with the Secretary of State. Mr. Riggs explained the public notice procedure used to advertise the hearing.

2. Report on the contents of proposed rules - Ms. Ross, Executive Director, was requested by Mr. Riggs to give a brief report on the rules. Ms. Ross stated that they have been published by the Secretary of the State's office and we now have a draft ready for adoption. She stated that the rules are divided into three different articles. The articles and their contents were reviewed.

M I N U T E S

15761

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

PUBLIC HEARING

May 24, 1983

I. CALL TO ORDER

The Public Hearing meeting of the State Board of Technical Registration held at the State Capitol, Room 800, West Wing, Phoenix, Arizona was called to order by Acting Chairman John B. Riggs at 8:30 a.m.

PRESENT: John B. Riggs, Vice-chairman
 Silas C. Brown, Secretary
 Paul W. Cella, Member
 Robin A. Morris, Member
 Ronald J. Mlnarik, Member
 Hector C. Durand, Member
 Stewart R. Palmer, Member

ABSENT: Jimmie R. Nunn, Chairman
 Charles E. O'Bannon, Member

GUESTS: Rex G. Fynn
 Rolf Osland, CAC/AIA
 Bill Sawyer, Eng. Assoc.
 Jim Anderson, ASCE
 J. A. Wise, Jr., ACEA
 Art Brooks, ACEA/ASCE
 Paul G. Scott, ASPE
 Jeff Andrews, APLS
 Fred L. Baker, APLS

Elmer Culp
 Richard W. Rush, Am. Inst. Prof. Geol.
 R. J. Fish, APLS
 Curtis Drew, APLS
 Oscar T. Lyon, Jr., ASPE
 Janice Rizer, ACEA/ASPE
 Robert G. Niebur
 Sam Hersey, APLS

Those present constituted a quorum

II. EXECUTIVE SESSION

It was moved by Mr. Cella and seconded by Mr. Brown that the Board convene in executive session. The Board reconvened in open session at 9:22 a.m.

A. Public Hearing Concerning Proposed Rules

1. Convening of Hearing - Mr. Riggs welcomed the public to the hearing and introduced the Board Members who were present. He requested that the record reflect the presence of the Executive Director, Judi Ross, and of the representative of the Attorney General, Gary L. Sheets. He explained that the purpose of this hearing is to permit the public an opportunity to comment on the proposed new rules for the State Board of Technical Registration and that the proposed amendments were reviewed by the Governor's Regulatory Review Council and have been filed with the Secretary of State. Mr. Riggs explained the public notice procedure used to advertised the hearing.

2. Report on the contents of proposed rules - Ms. Ross, Executive Director
 Ms. Ross was requested by Mr. Riggs to give a brief report on the rules.
 Ms. Ross stated that they have been published by the Secretary of the State's office and we now have a draft ready for adoption. She stated that the rules are divided into three different articles. The articles and their contents were reviewed.

Mr. Riggs stated that we had received several printed or written comments and requested any additional material regarding the new rules be submitted to the Board. It was moved by Mr. Durand and seconded by Mr. Palmer to include all written comments into the minutes. MOTION CARRIED.

Mr. Cella voiced his feelings regarding Appendix F and stated he felt that they should not include that Appendix in the adoption of the rules. Mr. Brown agreed with Mr. Cella that we should amend the appendix as he was not satisfied with the Appendix as it now stands. Mr. Durand stated that in light of the complaints received by the Board in opposition to the adoption of Appendix F he was not in favor of the adoption of Appendix F.

It was moved by Mr. Cella and seconded by Mr. Durand that Appendix F be removed from the rules and further work and discussions be held at a later time. MOTION CARRIED.

4. Oral Public Comments - Mr. Riggs requested speakers to please limit their comments to no more than five minutes to allow an opportunity for everyone to speak.

Ms. Morris requested that the public comment on Appendix F simply because we are present and this provides us with an opportunity to hear it.

Gary Sheets, Assistant Attorney General proposed a change in the rules that could be used instead of Appendix F.

"In lieu of Appendix F, the second sentence of paragraph 7 would read: 'a registrant shall conduct land surveying engagements in accordance with the manual of surveying instructions issued by the Bureau of Land Management, US Dept. of Interior, in effect on June 1, 1983 and in accordance with Professional Standards adopted by the Arizona Professional Land Surveying Society in effect on June 1, 1982 to the extent applicable to his professional practice and as feasible under the circumstances.'"

Mr. Fish, APLS - submitted a draft from APLS concerning some comments. He commended the Board and the rules committee for producing a fairly well thought-out document, however, there were some criticisms and suggestions that he wanted to make. On page 23, subparagraph two he wanted to insert after the names and addresses of present and past employers the words: "the candidate shall have achieved not less than nine months of professional experience and six months of responsible charge experience as outlined in R4-30-101 A & C." He suggested a few changes to reflect better wording than presently outlined.

Mr. Anderson, ASCE - Does not believe that any type of manual references should be in the Rules and Regulations not only for surveying but for other types of disciplines. He felt that they do not need to have a manual to guide the registrant on how to do a job, because we have the advisory committee who can take it from there.

Mr. Curtis Drew, APLS - Discussed the problems that APLS had with Appendix F. He felt that the conduct of the registrants are fairly well spelled out and could see no changes in the way it is written. He does not believe that it is up to the Board to adopt standards, that it should be up to the societies to adopt standards and to do their own policing.

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Mr. Joe Wise - ACES - Underscored on the verbiage that should be included; disagreed with Mr. Sheets as he does not feel that there is any need to include any reference manuals as these are professional people we are dealing with and they do not need to be told what their standards are, they know what they are.

Ms. Morris expressed concern on how we could do peer review by referencing some standard or document.

Mr. Jeff Andrews- APLS - Expressed confidence that the document prepared by APLS should help the Board in relation to standards that are needed. He felt that the wording proposed by Mr. Sheets was quite appropriate with the recommended reference - that the applicable BLM manual be used.

Mr. Art Brooks - ASCE/ASPEA - Stated that both societies are vehemently opposed to the adoption of technical standards by this Board. On Page 70 of the rules and regulations, paragraph 282, the recommendation would simply be that everything after ARS 32-101B (19) be eliminated thereby eliminating the reference to Appendix F and on Page 7 everything after the first sentence be eliminated thereby eliminating Appendix F.

Mr. Rex A. Times appearing on behalf of himself - The rules, as prepared are well thought-out and the Board should be commended on the preparation of this document. There appears to be duplication on pages 28 and 30 pertaining to paragraph D concerning denial of the Board for applicants' admittance to the examination. There were some inconsistencies in sub-paragraph 5, however, and he would recommend that the sub-paragraph 5 first appearing be the one that the Board retained.

R4-30-207 Paragraph B - Registration without examination states that if the applicant holds a valid registration with the Geologist and the Architectural societies they do not have to take an examination, this should, in his opinion, include holders of the engineering certificates from the National Council of Engineering Examiners. If it has been omitted by the Board, then he believes that the Board should reconsider adding holders of engineering certificates from NCEE and also make them eligible for granting of registration without examination. On Page 44, sub-paragraph D, the description for electrical design practice, is in need of further work. He suggested that the Board request some educators in the electrical field assist the Board in re-writing this sub-paragraph. It is his belief that the Board is making some strong and deliberate effort to further emphasize the segregation of professional engineers by branch. There are only about 20% of the states in the U.S. that provide for engineering specialties licensing.

Mr. Rolf Osland - AIA - On page 2 "bona-fide employee" He expressed dissatisfaction with the definition as shown if the words, "contract compensation" are left in as part of the definition. He requested that on page 35 the words "rendering of architecture and structural...", the word rendering should be changed to something else. The Board suggested it be changed to preparation.

The meeting adjourned and reconvened after a ten minute break.

It was moved by Mr. Durand and seconded by Mr. Palmer to correct all grammar, spelling and punctuation. MOTION CARRIED.

It was moved by Mr. Brown and seconded by Ms. Morris to adopt the rule changes as proposed by the Governor's Regulatory Advisory Committee. MOTION CARRIED.

It was moved by Mr. Cella and seconded by Mr. Brown to accept the amendments proposed by staff. MOTION CARRIED.

It was moved by Ms. Morris and seconded by Mr. Brown to amend R4-30-203 #B from a single year to 90 days. MOTION CARRIED 5-2 with Mr. Palmer and Mr. Durand voting no.

It was moved by Mr. Cella and seconded by Mr. Palmer that in item 8 on page 70 a period be placed after 32-101 (B) (19) and strike the balance of the sentence, thereby deleting Appendix F. MOTION CARRIED.

It was moved by Mr. Durand and seconded by Mr. Palmer to delete the last sentence in paragraph 7 on page 74. MOTION CARRIED.

Mr. Sheets suggested a draft for the last sentence which would read: "A registrant shall conduct a land surveying engagement in accordance with the contemporary 'manual of surveying instructions' issued by the Bureau of Land Management, Department of Interior and in effect prior to May 23, 1983 and in accordance with the Minimum Land Surveyor Guidelines, adopted by the Arizona Professional Land Surveyor Society in effect prior to May 23, 1983 to the extent applicable to that engagement." Mr. Durand stated that the actual name is the "Manual of Instructions for the Surveying of the Public Domain". He stated that we should take it right off the manual, thereby eliminating any questions.

Mr. Cella stated that he had a problem with the last part of Mr. Sheet's wording. Mr. Palmer expressed the problem that he was having in that it was just distributed at the meeting - "Minimum Land Surveyor Guidelines" - and there has been little chance to review the guidelines.

Alternative language was suggested by Mr. Sheets and it was moved by Mr. Cella and seconded by Mr. Brown that in paragraph 7 on page 74 it would read: "A registrant shall conduct a land surveying engagement in accordance with the contemporary 'Manual of Surveying Instructions' issued by the Bureau of Land Management, Department of Interior in effect prior to May 23, 1983 to the extent applicable to that professional engagement.: MOTION CARRIED.

It was moved by Mr. Cella and seconded by Mr. Durand that the wording on page 78, R4-30-304 USE OF SEALS be amended to read: that after "Maps," add "or on one sheet of several master sheets used for reproduction into a single sheet of finished drawings or maps," and then retain the balance of the words. MOTION CARRIED.

It was moved by Mr. Cella and seconded by Mr. Durand to adopt the rules as amended. MOTION CARRIED.

B. Other Business

1. Budget Status Report

Ms. Ross reported that with the supplemental appropriations, the Board

will have the money available for the architectural examinations.

2. Out-of-state Travel

Mr. Riggs discussed the NCARB meeting, that will be held in Pennsylvania in June. The advisability of having both he and Ms. Ross at the meeting was discussed. He requested that the Board authorize both to attend the meeting. It was moved by Mr. Brown and seconded by Mr. Cella to authorize both Mr. Riggs and Ms. Ross to attend NCARB meeting in Pennsylvania. MOTION CARRIED 6-1 with Mr. Durand voting no.

3. Future Board Meetings - The next regular schedule Board meeting will be held June 10 in room 126 at 9:00 a.m. in the Occupational Licensing Building. All existing rules of the Board of Technical

It was moved by Mr. Brown and seconded by Mr. Cella to adjourn the meeting. MOTION CARRIED.

through 7. A.C.R.R., are hereby repealed.

Section 2. A new Article 1 (General Provisions) of Title 22, Chapter 30, A.C.R.R., consisting of the following rules is added to read as follows:

Article 1. GENERAL PROVISIONS

22-30-101. Definitions

In Title 22, Chapter 1, Arizona Revised Statutes and these rules, unless the context otherwise requires, the following definitions of terms shall apply:

1. "Active engagement" means actually practicing or providing professional services.

2. "Board" means the Arizona State Board of Technical Registration.

3. "Board field employee" means an individual working under

TECHNICAL REGISTRATION BOARD RULES

Pursuant to A.R.S. § 32-106 and other provisions of Title 32, Chapter 1, A.R.S., the Board of Technical Registration hereby adopts, subject to certification by the Attorney General, the following rules:

Section 1. All existing rules of the Board of Technical Registration contained in Title 4, Chapter 30, Articles 1 through 7, A.C.R.R., are hereby repealed.

Section 2. A new Article 1 (General Provisions) of Title 4, Chapter 30, A.C.R.R., consisting of the following rules is added to read as follows:

Article 1. GENERAL PROVISIONSR4-30-101. Definitions

In Title 32, Chapter 1, Arizona Revised Statutes and these rules, unless the context otherwise requires, the following definitions of terms shall apply:

1. "Active engagement" means actually practicing or providing professional services.

2. "Board" means the Arizona State Board of Technical Registration.

3. "Bona fide employee" means an individual working under

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the direct supervision of a registrant and receiving compensation, either direct wages or contract compensation, from the registrant and whose work product is the responsibility of the registrant.

4. "Category" means the registration categories of architecture, assaying, geology, engineering, landscape architecture and land surveying.

5. "Current professional services income" means all income received from performing or providing professional services during the most recent complete calendar year, but does not include pension payments or any income deferred from earlier calendar years.

6. "Detached single family dwelling" as used in A.R.S. § 32-144.A, paragraph 3, means a single family dwelling unit such as a house which is structurally and physically separate from all other family dwelling units and does not mean any single family dwelling unit which is part of a multiple dwelling unit building such as a duplex, apartment building, condominium or cooperative. The term "detached single family dwelling" also includes all subsidiary buildings or structures and improvements such as garage, storage areas, swimming pool and landscaping.

7. "Direct supervision" means that the work product has been critically examined and evaluated for compliance with

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appropriate professional standards by a registrant in that profession.

8. "Experience" is defined in the following categories:

a. "Subprofessional experience" means task work done under direct supervision and not falling within the definition of professional experience, including but not limited to time spent as a rodman, chainman, recorder, instrument man, draftsman, clerk of the works or similar work.

b. "Professional experience" means work calling for substantial technical knowledge, skill and responsibility as well as a lesser degree of supervision.

c. "Responsible charge experience" means work in the field or in the office, where the applicant had responsibility for the direction of the work and its successful accomplishment and where the applicant had to make professional decisions without relying on advice or instructions from or first referring the decisions for approval to his superiors.

d. "Design experience" means professional work, including work defined under "responsible charge experience", where the applicant in any professional engagement must meet the exigencies of the case, fulfill the requirements of local circumstances and conditions and yet not violate any of the requirements of his profession and ensure that the executed plan meets the purpose for which it was designed.

9. "Good moral character and repute" means the registration candidate:

a. Has not been convicted of a felony involving dishonesty, fraud, misrepresentation, embezzlement, theft, forgery, perjury, bribery or breach of fiduciary duty within five years of application for registration;

b. Has not been convicted of any crime involving moral turpitude related to the candidate's proposed area of practice within five years of application for registration;

c. Is not currently incarcerated in a penal institution;

d. Has not engaged in fraud or misrepresentation in connection with his application for registration or related examination;

e. If previously registered in this state, another state or foreign country, has not had his registration revoked or suspended for cause; and

f. Has not been convicted of practicing without a license in this state or in another jurisdiction within the United States within two years of application for registration.

10. "Gross negligence" means a substantial deviation in professional practice from the standard of professional care exercised by members of the registrant's profession, or a substantial deviation from any technical standards issued by a nationally recognized professional organization comprised of

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members of the registrant's profession, or a substantial deviation from requirements contained in state laws, board regulations, local ordinances or regulations related to the registrant's professional practice.

11. "Incompetence" means to lack the professional qualifications, experience or education to undertake a professional engagement or assignment.

12. "Other misconduct" means:

a. Conviction of any crime reasonably related to the practice of the registrant's profession;

b. An adverse civil adjudication involving dishonesty, gross negligence or incompetence;

c. Suspension or revocation for cause of a professional license or registration by this state or by any other jurisdiction;

d. Knowingly acting, or failing to act, in violation of any provisions of Title 32, Chapter 1, A.R.S. or rules of the Board or any federal or state law or regulation, local ordinance, regulation or code related to the practice of the registrant's profession.

13. "Prepared" as used in A.R.S. § 32-125.C means to provide significant professional services concerning the plans, drawings, reports or other documents which are the subject matter of the professional engagement.

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14. "Registrant" means a person who has been granted registration to practice any profession authorized to be registered pursuant to Title 32, Chapter 1, A.R.S.

15. "Retired from active practice" means that the registrant does not receive more than \$10,000 in current professional services income in a calendar year.

16. "Structure" as used in A.R.S. § 32-144.A, paragraph 3, means any constructed or designed improvement or improvements to real property including all on-site improvements, fixed equipment and landscaping, pursuant to an engagement or project.

R4-30-102. Meetings; Election of Officers

Board meetings shall be held at least quarterly, during the months of March, June, September and December, at a time and place designated by the Chairman. The Chairman, the Vice-chairman or any five members may call such other meetings as necessary to conduct the business of the Board. All meetings shall be noticed as provided in the Open Meetings Law. At the September meeting, the Board shall elect from its members a Chairman, Vice-chairman and Secretary who shall assume the duties of their offices at the close of that meeting. If an officer resigns or vacates his position prior to the expiration of his term, the Board may elect a replacement to serve the remainder of the term.

R4-30-103. Duties of Officers

The Chairman shall preside at all meetings, appoint committees of the Board, sign all certificates and official documents and otherwise perform all duties ordinarily pertaining to the office of Chairman. The Vice-chairman shall, in the absence or incapacity of the Chairman, exercise the duties of the Chairman. The Secretary shall perform all duties described in A.R.S. §§ 32-109, 32-123A and 32-128C. The Executive Director shall have charge of the Office of the Board and perform the duties described in A.R.S. § 32-107.

R4-30-104. Registration Advisory Committees

The Board may establish registration advisory committees for each profession or group of professions regulated. These advisory committees may be composed of board members or non-board members. If composed of non-board members, each committee shall be appointed by the Board and shall consist of at least three professional members and one public member. The Board shall select committee members from among persons submitting letters of interest and resumes. Members shall serve at the pleasure of the Board. The committees shall review registration applications and make recommendations to the Board

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regarding acceptance or rejection of applications in accordance with Title 32, Chapter 1, these rules and board procedures.

R4-30-105. Enforcement Advisory Committees

The Board may appoint an enforcement advisory committee for each profession regulated. Each committee, except for the engineering committee, shall have a minimum of four professional members and one public member. The engineering committee shall have professional members representing the various engineering proficiencies and public members. From this committee engineering panels will be drawn and assigned specific investigative files. Each engineering panel shall have a minimum of four professional members, at least one of which must be registered in the same proficiency as the respondent in the investigation, and one public member. In the event of a complaint involving more than one profession, a joint advisory committee composed of a minimum of two members from each profession involved and one public member shall be formed. Professional members shall be drawn from their respective committees and the public member shall be drawn from a committee other than those of the professions involved. Members of advisory committees may be government employees. The Board shall select committee members from among persons submitting letters of interest and resumes. Members shall serve at the pleasure of the Board. Each

committee shall review investigation materials, conduct interviews and make recommendations to the Board concerning its findings in accordance with Title 32, Chapter 1, these rules and board procedures.

R4-30-106. Fees

A. Application Fees

1. Architect, assayer, engineer, geologist, landscape architect and land surveyor applications \$75

2. Architect-in-training, assayer-in-training, engineer-in-training, geologist-in-training, landscape architect-in-training and land surveyor-in-training applications \$30

3. The Board has determined that the costs of processing applications equal or exceed the application fees. Therefore, no refunds will be allowed after the application has been assigned an application number and processing commences.

B. Examination Fees

1. Architect-in-training exam

a. Division D, Structural Technology - General
(national exam) \$30

b. Division E, Structural Technology - Lateral Forces
(national) \$25

c. Division F, Structural Technology - Long Span
(national) \$20

- d. Division G, Mechanical, Plumbing, Electrical and Life Safety Systems (national) \$30
- e. Division H, Materials and Methods (national). . . . \$35
- 2. Professional architect exam \$45
 - a. Division A, Pre-design (national) \$45
 - b. Division B, Site Design (national). \$48
 - c. Division C, Building Design (national). \$72
 - d. Division I, Construction Documents and Services (national) \$35
 - e. Treatise on Lateral Forces, Grading (local) - if required \$35
- 3. Assayer-in-training exam - Fundamentals (local) . . \$35
- 4. Professional assayer exam - Principles and Practices (local) \$45
- 5. Engineer-in-training exam - Fundamentals (national) \$35
- 6. Professional aeronautical, agricultural, civil, chemical, electrical, industrial, mechanical, metallurgical, mining, nuclear, petroleum and sanitary engineer exams - Principles and Practices (national) \$45
- 7. Professional geological and geophysical engineer exams - Principles and Practices (local) \$45
- 8. Professional structural engineer exam \$5.00
 - a. Principles and Practices (national) \$45
 - b. Lateral Forces Analysis and Design (local). \$25

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- c. Structural Engineering Design (local) \$25
- 9. Geologist-in-training exam - Fundamentals (local) . \$35
- 10. Professional geologist exam - Principles and Practices
 (local) \$45
- 11. Landscape architect-in-training exam
 - a. Subject A, History (national) \$35
 - b. Subject C, Design (national). \$75
- 12. Professional landscape architect exam
 - a. Subject B, Professional Practice (national) \$35
 - b. Subject D, Design Implementation (national) \$55
- 13. Land Surveyor-in-training exam - Fundamentals
 (national) \$35
- 14. Professional land surveyor exam
 - a. Principles and Practices (national) \$45
 - b. Arizona Surveying Methods and Legal Principles
 (local) \$25
- C. Renewal Fees
 - 1. Triennial renewal fee \$63
 - 2. Transitional fee \$1.75 per month
- D. Miscellaneous Fees
 - 1. Alphabetical roster of registrants (if available) \$5.00
 - 2. Board annual report (exclusive of roster) \$1.00

3. Technical Registration Code (beyond initial copy for registration purposes) \$1.00
4. Computer printout fee per name (non-commercial use)\$.10 with a minimum \$50.00 and maximum \$150.00 charge per computer run
5. Copy fee per page (non-commercial use). \$.20
6. Replacement certificates \$4.00
7. Examination guides (available only for certain exams) \$2.50
8. Local review of examination results by applicant alone \$10.00
9. Local review of examination results with professional assistance \$35.00
10. Numerical roster of registrants (if available) . \$3.50
11. Regrading of examination (if authorized by the Board) \$65.00
12. Returned check charge \$10.00
13. Rules of the Board. \$3.50

E. Payment of fees must be in United States dollars and may be in cash or check or money order; however, if a check is returned for insufficient funds, repayment, including payment of the returned check charge, shall be in cash or by money order or certified check.

F. Fee Waiver

Upon written request, the Board will waive renewal fees for

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registrants who are retired from active practice and who have attained the age of 65 years during the immediately preceding registration period.

G. Delinquency Penalty

The penalty for late payment of renewal fees is \$10.50 per year or any fraction of a year.

R4-30-107. Registration Expiration Dates

A. Registrants' triennial registration expiration dates are based upon the first letter of the registrant's last name at the time of registration. The following table indicates registration expiration dates through December 31, 1988:

| <u>Initial</u> | <u>Expiration Date</u> |
|----------------|--------------------------|
| A-B | March 31, 1984, 1987 |
| C | June 30, 1984, 1987 |
| D-E | September 30, 1984, 1987 |
| F-G | December 31, 1984, 1987 |
| H-I | March 31, 1985, 1988 |
| J-K-L | June 30, 1985, 1988 |
| Mc-M-N | September 30, 1985, 1988 |
| O-P | December 31, 1985, 1988 |
| Q-R | March 31, 1983, 1986 |
| S | June 30, 1983, 1986 |
| T-U-V | September 30, 1983, 1986 |
| W-X-Y-Z | December 31, 1983, 1986 |

B. Triennial renewal periods and registration fees for new registrants are computed from the last day of the quarter following the quarter during which registration was granted to the next expiration date shown for the registrant's last name initial in Subsection A (e.g., a registrant whose last name begins with E who was registered on August 31, 1981 would be assessed a renewal fee beginning December 31, 1981 and ending on September 30, 1984).

C. Triennial renewal periods and registration fees for existing registrants are computed from the registrant's present renewal date to the next expiration date shown from the registrant's last name initial in Subsection A (e.g., a registrant whose last name begins with A, whose present renewal date is February 28, 1983 would be assessed a transitional renewal fee beginning February 28, 1983 and ending March 31, 1984).

D. After the registration expiration dates shown above for each registrant, renewal will be for a three-year period from the expiration of that registration.

R4-30-121. Investigation of Violations

If any information concerning a possible violation of Title 32, Chapter 1, or any of these rules should be received or obtained by the Board, an investigation shall be conducted

prior to the initiation of formal proceedings. Investigative reports, enforcement advisory committee recommendations and other documents and materials relating to an investigation shall remain confidential until the matter is closed, until the issuance of a hearing notice pursuant to A.R.S. § 32-128, or until the matter is settled by consent order; however, the registrant will be informed and the public may obtain information that an investigation is being conducted and of its general nature. The Board may refer investigative information to other public agencies as appropriate under the circumstances.

R4-30-122. Issuance of Subpoenas

The Board or its hearing officers may issue subpoenas for the attendance of witnesses and for the production of books, records, documents and other evidence, and shall have the power to administer oaths. Any party desiring the Board or its hearing officers to issue a subpoena to compel the appearance of a witness at any hearing shall make application, stating the substance of the testimony expected of the witness. If such testimony appears to be material and necessary, a subpoena will be supplied. The affixing of the seal of the Board and the signature of the Chairman or Secretary shall be sufficient attestation of the same. Service of a subpoena must be made at

the expense of the party applying for it and shall be made in the manner provided by law for service of subpoenas in civil actions.

R4-30-123. Informal Compliance Procedures

A. Upon notification of the findings of an investigation by an enforcement advisory committee, a registrant may attend an informal compliance conference with Board staff. The registrant may appear either with or without counsel. Notice of the compliance conference shall be mailed at least fifteen days prior to the date of the conference. The purpose of the compliance conference will be to discuss informal settlement of the investigative matter. Upon completion of the interview, the Board's enforcement officer shall make recommendations to the Board for consent settlement, dismissal of the complaint or formal proceedings.

B. At any time either before or after formal disciplinary proceedings have been instituted against a registrant, the registrant may submit to the Board an offer of settlement whereby, in lieu of formal disciplinary action by the Board, the registrant agrees to accept certain sanctions such as suspension, civil penalties, enrolling in continuing education courses, limiting the scope of his practice, submitting his

work product to professional peer review, or other sanctions. If the Board determines that the proposed settlement will adequately protect the public welfare, the Board may accept the offer and enter a decision consented to by the registrant incorporating the proposed settlement.

R4-30-124. Formal Hearing Procedures

A. Notice Procedures: Notice of a formal disciplinary hearing shall be given at least thirty days prior to date set for the hearing. Notice shall be served personally or by mailing a copy, by certified mail, to the address last known by the Board. The Notice shall include the following information:

1. Statement of time, place and nature of hearing.
2. Statement of legal authority and jurisdiction under which hearing is to be held.
3. Statement giving reference to particular sections of the statutes and rules involved.
4. Statement of matters asserted. Initial notice may be limited to a statement of the issues involved. Upon application, a more definite and detailed statement shall be furnished.

B. Conduct at hearings: Disciplinary hearings may be conducted without adherence to the rules of evidence required in judicial proceedings.

C. Opportunity to respond: All parties shall be afforded the opportunity to respond and present evidence and argument on all issues involved.

D. Failure to appear: Failure of parties to appear for a hearing shall leave the Board free to act upon the evidence and other information at hand without further notice to the registrant.

E. Findings of fact: Findings of fact shall be based exclusively on the evidence and matters officially noticed.

F. Records: A record of the hearing shall be made and kept by the Board and, in the case of disciplinary hearings or where requested by a party or ordered by the Board, a transcript shall be prepared and filed with the Board. If the transcript is prepared at the request of a party, the cost of the transcript shall be paid by the party making the request, unless the Board for good cause shown waives assessment of such costs. The Board records in a contested case shall include the following:

1. All pleadings, motions, interlocutory rulings.
2. Evidence received or considered.
3. Statement of matters officially noticed.
4. Objections and offers of proof and rulings thereon.
5. Proposed findings and exceptions.

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6. Decision, opinion or report by the Board or presiding officer.

7. All staff memoranda, other than privileged communications, of data submitted to the Board.

R4-30-126. Rehearing of Board's Decisions

A. Except as provided in Subsection G, any party in a contested case before the Board who is aggrieved by a decision rendered in a case may file with the Board, not later than ten days after service of the decision, a written motion for rehearing or review of the decision specifying the particular grounds therefor. For purposes of this subsection a decision shall be deemed to have been served when personally delivered or mailed by certified mail to the party at his last known residence or place of business.

B. A motion for rehearing under this rule may be amended at any time before it is ruled upon by the Board. A response may be filed within ten days after service of a motion or amended motion by any other party. The Board may require the filing of written briefs upon the issues raised in the motion and may provide for oral argument.

C. A rehearing or review of the decision may be granted for any of the following causes materially affecting the moving

party's rights:

1. Irregularity in the administrative proceedings of the agency, members of the Board or the prevailing party, or any order or abuse of discretion, whereby the moving party was deprived of a fair hearing;

2. Misconduct of the Board or the prevailing party;

3. Accident or surprise which could not have been prevented by ordinary prudence;

4. Newly discovered material evidence which could not with reasonable diligence have been discovered and produced at the original hearing;

5. Excessive or insufficient penalties;

6. Error in the admission or rejection of evidence or other errors of law occurring at the administrative hearing;

7. The decision is unjustified based upon the evidence or is contrary to law.

D. The Board may affirm or modify the decision or grant a rehearing to all or any of the parties and on all or part of the issues for any of the reasons set forth in Subsection C. An order granting a rehearing shall specify with particularity the ground or grounds on which the rehearing is granted, and the rehearing shall cover only those matters so specified.

E. Not later than ten days after a decision is rendered,

the Board may on its own initiative order a rehearing or review of its decision for any reason for which it might have granted a rehearing or review of its decision on motion of a party. After giving the parties or their counsel notice and an opportunity to be heard on the matter, the Board may grant a motion for rehearing for a reason not stated in the motion. In either case the order granting such a rehearing shall specify the grounds therefor.

F. When a motion for rehearing is based upon affidavits, they shall be served with the motion. An opposing party may within ten days after service serve opposing affidavits, which period may be extended for an additional period not exceeding twenty days by the Board for good cause shown or by written stipulation of the parties. Reply affidavits may be permitted.

G. If, in a particular decision, the Board makes specific findings that the immediate effectiveness of such decision is necessary for the immediate preservation of the public welfare, health or safety and that a rehearing or review of the decision is impracticable, unnecessary or contrary to the public interest, the decision may be issued as a final decision without an opportunity for a rehearing or review. If a decision is issued as a final decision without an opportunity for rehearing, any

application for judicial review of the decision shall be made within the time limits permitted for applications for judicial review of the Board's final decisions.

H. To the extent that the provisions of this rule are in conflict with the provisions of any statute providing for rehearing of decisions of the State Board of Technical Registration, such statutory provisions shall govern.

Section 3. A new Article 2 (Registration Provisions) of Title 4, Chapter 30, A.C.R.R., consisting of the following rules is added to read as follows:

Article 2. REGISTRATION PROVISIONS

R4-30-201. General Application Requirements

A. A candidate seeking registration as a professional architect, assayer, engineer, geologist, landscape architect or land surveyor shall complete the application form described in Appendix A of these rules. If the application does not contain space for the information to be submitted, the applicant may securely attach additional sheets to the form. In addition, all candidates shall:

1. Arrange to have certified transcripts sent directly from the registrar of the college, university or educational

institution to the Board.

2. Provide the names and addresses of immediate supervisors in past and present employment. Candidates who have been working in the profession in which registration is sought for ten or more years shall provide the names and addresses of all immediate supervisors during the most recent ten-year period.

3. If a candidate cannot supply the names and addresses of supervisors for at least three engagements, provide to the Board a written, sworn explanation and the names and addresses of three additional references, unrelated to the candidate, at least two of whom shall be registered in the profession in which registration is sought.

4. Provide a photograph of passport quality (2" x 2") taken within sixty days of the date of the application.

5. Execute a release authorizing the Board to investigate the candidate's education and experience credentials and good moral character and repute.

The Board will mail Certificates of Experience (see Appendix B) to a candidate's immediate supervisors at present and past employers. The Board shall also mail any required reference forms (see Appendix C) to additional references.

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Upon receipt of the completed Certificates of Experience from employers, reference letters, if required, educational transcripts and other materials required by this rule, the candidate's application will be evaluated.

B. The Board staff shall review all applications and, if necessary, shall refer completed applications to the appropriate registration advisory committee for evaluation. If the application is complete and in the proper form and the committee is satisfied that all statements on the application are true and that the candidate is eligible in all other respects to be registered in the field for which he has applied, it shall certify the candidate as eligible to take the examination, or, if exempt from examination pursuant to A.R.S. § 32-126.A, as eligible for registration. If for any reason the committee is not satisfied that all of the statements on the application are true or that the candidate is eligible in all respects for examination or registration, it may cause a further investigation to be made of the candidate. The committee's recommendations shall be submitted to the Board for approval. If, in the judgment of the Board, the candidate has not furnished satisfactory evidence of qualifications for examination or registration as required by these rules, it may

deny the application or it may require additional data concerning the candidate's education or experience or both. The Board shall require a candidate for professional registration to have passed both the in-training and professional examinations, unless exempt pursuant to A.R.S. § 32-126. The Board may also require a candidate to submit to an additional oral or written examination if the candidate has not furnished satisfactory evidence of qualifications for registration.

R4-30-203. Application for In-training Programs

A. In-training candidates shall complete the application described in Appendix D.

B. If otherwise qualified, candidates for assayer-in-training, engineer-in-training, geologist-in-training and land surveyor-in-training programs will be permitted to take the in-training examination in the final 90 days of a baccalaureate degree program accredited in the area for which application is made. The candidate shall have his application form endorsed by his college dean or faculty advisor or, if already a graduate, may arrange in lieu of the endorsement to have a final transcript indicating the degree awarded sent directly from the registrar to the Board.

C. Candidates for architect-in-training or landscape architect-in-training will be permitted to take the in-training examination after graduation from an accredited architectural or landscape architectural degree program. The candidate shall have his application form endorsed by his current employer or college dean or faculty advisor, or may arrange in lieu of the endorsement to have a final transcript indicating the degree awarded sent directly from the registrar to the Board.

D. Candidates for in-training programs without accredited college degrees will be permitted to take the in-training examination after submitting to the Board specific evidence of four years, or if an architect-in-training candidate, five years of experience or education or both of a character satisfactory to the Board. The candidate shall have his application form endorsed by his current employer. The Board will mail Certificates of Experience (see Appendix B) to the candidate's immediate supervisors at present and past employers. The candidate shall have transcripts sent directly from the registrar to the Board for any educational credit claimed.

E. Candidates for in-training certification must verify all educational experience by having certified transcripts sent directly from the registrar to the Board before in-training certification will be granted. 30 days prior to the date of the professional examination. Applications for in-training

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R4-30-204. Examinations; General

A. Examinations shall be given according to the following schedule:

1. Architect-in-training, landscape architect-in-training - June
2. Assayer-in-training, engineer-in-training, geologist-in-training, land surveyor-in-training - October and April
3. Professional architect - June
4. Professional landscape architect - June
5. Professional assayer, geologist, land surveyor - October and April
6. Professional engineers:
Chemical, civil, electrical, geological, geophysical, mechanical, sanitary, structural - October and April
Aeronautical, agricultural, industrial, metallurgical, mining, nuclear, petroleum - October

B. All examinations are given at the times and places determined by the Board in the months indicated in Subsection A. The Board will publicly announce the exact date and time for an examination at least 120 days prior to the scheduled examination date. Applications for professional registration must be filed with the Board at least 90 days prior to the date of the professional examination. Applications for in-training

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registration must be filed with the Board at least 60 days prior to the date of the examination. All transcripts, Certificates of Experience and other materials required by Rule R4-30-201 or Rule R4-30-203 must be received by the Board at least 45 days prior to the examination date. Applications or materials received after the cutoff dates will be processed for the next following examination.

C. When a candidate has paid the proper fee but is unable to take the first scheduled examination or re-examination, he may request, in writing, prior to the examination date, an extension which will permit him to take the next scheduled examination. A request for an extension beyond the next scheduled examination will not be considered except for hardship reasons, such as substantiated serious illness or absence from the country.

D. Applications for or admittance to the examination may be denied by the Board for any of the following reasons:

1. If the examination or re-examination fee is not received on or before the specified date.
2. If a candidate does not appear for the first scheduled examination or re-examination without an extension being requested and granted.

3. If a candidate does not appear for the examination or the re-examination to which he was granted an extension.

4. If a candidate fails to complete successfully all parts of the examination or examinations to which he is admitted within five years after taking any part of the examination or examinations.

5. If a candidate fails to comply with any of the provisions of A.R.S., Title 32, Chapter 1, or these rules concerning applications.

E. A candidate who fails to achieve a passing grade on an examination may apply for re-examination by paying the appropriate examination fee or fees. A candidate who has failed any part of an examination will be examined only on the parts failed. If a candidate fails to pass all parts of the examination or examinations for which he is held within five years after taking any part of the examination or examinations, his application shall be denied. The candidate may then submit a new application no earlier than one year after taking the last examination. The candidate shall retake and pass all of the required parts of the examination or examinations before registration and within five years after retaking any part of the examination or examinations. Candidates desiring review of their examination scores shall file a written request with the

Board within 30 days after receiving notification of the failing grade. Candidates may review their examinations by making prior arrangements with the staff and paying the appropriate fee.

F. An applicant may withdraw his application for registration by written request to the Board. An approved withdrawal shall be considered a denial of an application, with neither prejudice nor refund of fee.

R4-30-206. Admission to the Professional Examination;
Out-of-state Candidates with In-training Status

A candidate for registration as a professional architect, assayer, engineer, geologist, landscape architect or land surveyor who has successfully completed an in-training examination in another jurisdiction, which is equivalent to those examinations administered in Arizona, will be admitted to take the professional examination. Proof of examination must be forwarded directly from the authority which administered the original examination. A candidate must further comply with all the education and experience requirements set forth in the rule dealing with the profession for which registration is sought.

R4-30-207. Registration without Examination

A. A candidate who holds a valid registration in another state, jurisdiction, territory or country may be granted registration without examination, provided:

1. The candidate submits evidence acceptable to the Board that the education, experience and examination requirements under which he was registered in the original jurisdiction were substantially identical to those existing in Arizona at the time of the candidate's original registration; or

2. The candidate submits evidence acceptable to the Board that he has been actively engaged as a professional registrant in another state, jurisdiction, territory or country for at least ten years in the profession in which registration is sought. For purposes of this paragraph, "actively engaged as a professional registrant" shall mean that the candidate both holds a valid registration in, and has, in fact, actually been practicing or offering professional services for the most recent ten-year period in that state, jurisdiction, territory or country.

B. A candidate who submits evidence acceptable to the Board that he holds one of the following certificates of qualification issued by a national bureau of registration may

be granted registration in that profession without examination:
American Institute of Professional Geologists' Certification.
National Council of Architectural Registration Boards' Record, with design and seismic (lateral forces) qualifications.

The Board may recognize other ^{equivalent} certificates of qualification, as it deems necessary.

C. For purposes of this rule, "evidence acceptable to the Board" shall mean a completed application as described in Rule R4-30-201 and including registration documentation forwarded directly to the Board from the registration authority, on forms provided by the Board, or in the case of a national certificate, on such forms as the issuing bureau may require. Such registration documentation shall contain information concerning the requirements in force at the time the candidate was originally registered, the method of registration including examination results if applicable, the date of original registration and the current status of the registration.

R4-30-212. Architect-in-training Registration Requirements

A. A candidate for architect-in-training registration shall be of good moral character and repute, and be a

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graduate of an architectural degree program approved by the Board, or been actively engaged in architectural education or experience or both for at least five years. If qualified by education or experience or both, the candidate shall also meet the in-training examination requirement described in Subsection D of this rule.

B. To qualify for admission to the in-training examination solely on the basis of education, a candidate must be a graduate of a five-year architectural degree program accredited at the time of graduation by the National Architectural Accrediting Board (NAAB) or an equivalent predecessor organization. Any other educational credit shall be given in accordance with Appendices A and B of the 1982 National Council of Architectural Registration Boards Circular of Information No. 1 (see Appendix E), to the extent that the Circular does not conflict with the provisions of Title 32, Chapter 1, A.R.S. However, a candidate, whether a graduate or not, who has successfully completed course work in a degree or technical program not referenced in Appendix A or B shall receive pro rata credit for courses determined to be substantially equivalent to such courses in a NAAB-accredited architectural degree program. In determining pro rata credit, 30 semester hours or 45 quarter hours shall equal 12 months credit.

C. To qualify for admission to the in-training

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examination, a candidate who is not a graduate of a five year NAAB-accredited degree program shall have at least five years of education or experience or both directly related to the practice of architecture. Education shall be credited as described in Subsection B, above. Work experience shall be of a quality set forth in this subsection and shall be credited in accordance with Appendices A and B of the 1982 National Council of Architectural Registration Boards Circular of Information No. 1, to the extent that the Circular does not conflict with the provisions of Title 32, Chapter 1, A.R.S. or these rules. Work experience shall be attained under the direct supervision of a registered professional architect, except that a maximum of one year's experience may be attained under the direct supervision of a registrant in another profession regulated by the Board. A student may earn up to a maximum 75% credit for full-time work experience while enrolled in a college, university or other institution of higher learning. For purposes of crediting such experience, "full-time work experience" shall mean a minimum of 30 hours a week of work which is of a quality set forth in this subsection, is earned as provided in this subsection and can be substantiated by the employer on the required Certificates of Experience. Experience directly related to the practice of architecture of a character satisfactory to the Board includes

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but is not limited to the following:

1. Consultation: The active involvement in meetings, discussions, or the development of reports intended to provide information, facts or advice for the purpose of planning, designing or locating buildings, structures, alterations or construction projects.

2. Evaluation: The analysis of client's requirements involving space relations, expansion needs, site requirements and flexibility which serves as a basis for the development of appropriate design objectives.

3. Site Design: Design experience including the utilization of land, placement of structures, form relationships, traffic patterns, parking facilities and utility systems based upon an analysis of surface and subsurface conditions, ecological requirements and the requirements imposed by law.

4. Building Design: Design experience including the preparation of architectural, structural and interior drawings and the development of specifications, and the selection and layout of building systems involving structural, mechanical, electrical, civil and interior considerations.

5. Construction Review: The review or supervision of construction to ensure conformance with architectural or contract specifications or requirements (maximum 12 months credit).

6. Administration: Administrative experience including office and field administration, field testing, quotation requests, change orders, cost accounting and project closeouts (maximum 12 months credit).

7. Editing or Writing: The editing or writing for publication of articles, books, newsletters or other written materials on architectural subjects (maximum 6 months credit).

8. Other Architectural-related Experience: As defined in Appendices A and B of the 1982 National Council of Architectural Registration Boards Circular of Information No. 1.

9. Subprofessional Experience: As defined in Rule R4-30-101 (maximum 6 months credit).

D. A candidate shall take and pass the architect-in-training examination. The in-training examination is administered by the Board and provided by the National Council of Architectural Registration Boards and consists of the following:

Division D: Structural Technology, General 2.5 hours

Division E: Structural Technology, Lateral Forces 1.5 hours

Division F: Structural Technology, Long Span 1.5 hours

D. Candidates seeking registration under the provisions of A.R.S. § 32-126A and registered by 36-hour examination prior to 1965 in states other than Alaska, California, Colorado, Guam, Hawaii, Idaho, Nevada, New Mexico, Oregon, Utah, or Washington, or by education and experience only, shall be required to submit a treatise on "Lateral Forces" or successfully complete a seismic seminar approved by the Board.

R4-30-221. Engineering Branches Recognized

A. The Board currently recognizes the following branches of professional engineering:

- | | | |
|--------------|---------------|------------|
| Aeronautical | Geological | Mining |
| Agricultural | Geophysical | Nuclear |
| Chemical | Industrial | Petroleum |
| Civil | Mechanical | Sanitary |
| Electrical | Metallurgical | Structural |

B. A candidate must submit a separate application and application fee for each branch for which application is made. A candidate who wishes to change his branch of application after the application has been evaluated shall submit the request in writing and pay an additional application fee.

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Division G: Mechanical, Plumbing, Electrical
 Life Safety Systems 2.5 hours

Division H: Materials and Methods 3.0 hours

A candidate must receive a minimum score of 75% as established by the Board on each section (division) of the architect-in-training examination to complete successfully this requirement.

R4-30-214. Architect Registration Requirements

A. A candidate for registration as a professional architect shall be of good moral character and repute, have met the architect-in-training requirements of Rule R4-30-212 and meet the examination and other requirements of this rule.

B. The candidate shall have been actively engaged in architectural experience, or education and experience, for at least eight years, of which a maximum of five years may be credited for education at a college, university or institution of higher learning as specified in Rule R4-30-212. A maximum credit of one year's experience may be given toward the eight-year active engagement requirement for the full-time teaching of architectural subjects in a NAAB-accredited degree program. Work experience credited toward the eight-year active engagement

requirement shall be of a character satisfactory to the Board and attained as described in Rule R4-30-212 and shall be credited in accordance with Appendix A of the 1982 National Council of Architectural Registration Boards Circular of Information No. 1, to the extent that the Circular does not conflict with the provisions of Title 32, Chapter 1, A.R.S. A candidate who has graduated from a degree program accredited by NAAB, or an equivalent predecessor organization, at the time of graduation, and who has been actively engaged in architectural practice of a character satisfactory to the Board for at least 12 years after graduation is exempt from the architect-in-training examination.

C. A candidate shall take and pass the professional architect examination. The professional examination is administered by the Board and provided by the National Council of Architectural Registration Boards and consists of the following:

| | |
|---|------------|
| Division A: Pre-design | 4.0 hours |
| Division B: Site Design | 3.0 hours |
| Division C: Building Design | 12.0 hours |
| Division I: Construction Documents and Services | 2.5 hours |

A candidate must receive a minimum score of 75% as established by the Board on each section (division) of the professional examination to complete successfully this requirement.

R4-30-222. Engineer-in-training Registration
Requirements

A. A candidate for engineer-in-training registration shall be of good moral character and repute, and be a graduate of an engineering degree program approved by the Board, or been actively engaged in engineering education or experience or both for at least four years. If qualified by education or experience or both, the candidate shall also meet the in-training examination requirement described in Subsection D of this rule.

B. To qualify for admission to the in-training examination solely on the basis of education, a candidate must be a graduate of a four-year engineering degree program accredited at the time of graduation by the Accreditation Board for Engineering and Technology (ABET) or an equivalent predecessor organization. If a candidate is a graduate of an unaccredited four-year engineering degree program, the Board shall evaluate the curriculum to determine whether it is substantially equivalent to an ABET-accredited curriculum. If the curriculum is determined to be substantially equivalent, the candidate shall qualify for admission to the in-training examination. If the curriculum is determined not to be substantially equivalent, the candidate shall receive pro rata credit based upon the content of the curriculum relative to

that of an ABET-accredited curriculum. A candidate with a four-year engineering technology degree accredited by ABET shall be given 24 months educational credit. Whether or not a graduate, a candidate who has successfully completed course work in an engineering or other degree or technical program at a college, university or other institution of higher learning, whether accredited or not, shall receive pro rata credit for courses determined by the Board to be substantially equivalent to such courses in an ABET-accredited engineering curriculum. In determining pro rata credit, 30 semester hours or 45 quarter hours shall equal 12 months credit.

C. To qualify for admission to the in-training examination, a candidate who is not a graduate of a four-year ABET-accredited engineering degree program shall have at least four years of education or experience or both directly related to the practice of engineering. Education shall be credited as described in Subsection B, above. Work experience shall be of a quality set forth in this subsection and shall be attained under the direct supervision of a registered professional engineer, except that a maximum of one year's experience may be attained under the direct supervision of a registrant in another profession regulated by the Board. A student may earn up to a maximum 75% credit for full-time work experience while

enrolled in a college, university or other institution of higher learning. For purposes of crediting such experience, "full-time work experience" shall mean a minimum of 30 hours a week of work which is of a quality set forth in this subsection, is earned as provided in this subsection and can be substantiated by the employer on the required Certificates of Experience. Experience directly related to the practice of engineering of a character satisfactory to the Board shall include at least three of the following:

1. Consultation: The active involvement in meetings, discussions or development of reports intended to provide information, facts or advice regarding the application of the accepted principles in the candidate's branch of engineering to fulfill the client's specific requirements.

2. Research Investigation: The search, examination or study to determine the practicality or effectiveness of accepted principles in the candidate's branch of engineering for adaptation and application to novel situations or the development of new or alternative solutions to solve problems in the candidate's branch of engineering.

3. Evaluation: The analysis, testing or study to determine or estimate the merit, effect, efficiency or practicality of approaches, methods, designs, structures or materials for use in a given situation or to achieve a specific

result in the candidate's branch of engineering.

4. Planning: The preliminary development of objectives, statements, outlines, drafts, drawings or diagrams showing the arrangement, scheme, schedule, program or procedure for determining the most effective solution to a problem in the candidate's branch of engineering.

5. Design: Design, development and location experience in the candidate's branch of engineering as follows:

a. Agriculture: The design, location or development of specifications for agricultural machinery, drainage, irrigation, terracing, farm electricity, or water pumps and wells for the maintenance of adequate potable water supplies for crops, people, animals and industry.

b. Chemical: The design of equipment for chemical enterprises; chemical and biological processes; plant layout; processing, production or pilot plants; water, wastewater and pollution control plants; piping and distribution systems; heat exchanges; energy production management and distribution systems; process instrumentation and control systems; biomedical equipment; mining and minerals beneficiation; corrosion retardation; heat, mass and momentum transfer systems; reaction kinetics; thermodynamics; quality assurance and control; or systems or heat transmission apparatus.

c. Civil: The design, location or development of specifications for highways, streets, drainage structures, sewers, roadways, tunnels, railroads, railroad spurs and turnouts, waterfronts, water works, water power and supply apparatus, wells, pumps, airports, bridges, dams, irrigation structures, water purification apparatus, incinerators, storage elevators or structures for flood control.

d. Electrical: The development and design of specifications, techniques or new electronic devices for use in power plants, electronic and transmission equipment, electric service and supply systems, communication systems, central systems, radio circuits or major electrical installations.

e. Geological and Geophysical: The design, location and development of specifications for railroads, highways, dams, building foundations; the mapping of geological formations and groundwater locations; the determination of the age and strength of geological materials; or the determination of near surface or deep subsurface geological structures.

f. Industrial: The design, location and development of specifications for factory layouts, tools and fixtures, factory planning, time and motion study systems, rate plans, production plans, quality control systems and analysis, work simplification systems, methods studies and cost, production control,

organizational, operational and labor needs, or safety analysis.

g. Mechanical: The development of specifications, techniques, devices, process or mechanical apparatus for use in the design of or as an integral part in equipment, machines, mill layouts, heating, air conditioning, ventilation or refrigeration systems, power plants, tools or engines.

h. Metallurgical: The design, location and development of specifications for projects in the production of metals or metal objects, testing procedures, metal processing, failure analysis procedures or the development of metal alloys.

i. Mining: The design, location and development of specifications for projects concerning the construction of plants, shaft and bottom layouts, ventilation and hoisting systems, head frames, washery or concentration mills, mining methods and testing procedures or metallurgical works and production procedures.

j. Nuclear: The design, location and development of specifications and projects concerning nuclear waste management, alternative waste management systems, disposal criteria and risk evaluation, transportation, packaging, decontamination, handling, welding evaluation, site stabilization, recovery techniques, water and air quality control systems,

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waste volume management, evaporation systems, reactor safety methods, health safety systems, cycle analysis or nuclear fuels.

k. Petroleum: The design, location and development of specifications and projects involving drilling equipment, pipelines, refinery plants, gathering systems, handling and storage systems, exploitation and selection methods, gas measurement and core analysis, phase behavior studies, reserve calculations or the development of petroleum products.

l. Sanitary: The design, location and development of specifications and projects involving water treatment and sewage disposal plants, water works, sewers, incinerators, distribution systems, sewage and industrial waste treatment plants, pollution reduction systems, sanitary facilities or public health systems.

m. Structural: The design, location and development of specifications and projects involving methods of stress and mechanical analysis or the construction of structures and hydraulic devices.

6. Construction Review: The review or supervision of construction projects in the candidate's branch of engineering to determine conformance with contract documents and design specifications (maximum 12 months credit).

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7. Administration: Administrative experience in the candidate's branch of engineering, including office and field administration, field or laboratory testing, quotation requests, change orders, bidding procedures, cost accounting and project closeouts (maximum 12 months credit).

8. Surveying: The measurement, using accepted methods of surveying, of units of space, water, land or structures to determine boundaries, areas, shapes, slopes, distances, angles or other calculations (maximum 12 months credit).

9. Editing or Writing: The editing or writing for publication of articles, books, newsletters or other written materials directly relating to the candidate's branch of engineering (maximum 6 months credit).

10. Sales: Experience as a sales engineer in a supervisory capacity (maximum 6 months credit).

11. Other Engineering Experience: Experience of a nature set forth in this subsection but in other recognized branches of engineering (maximum 6 months credit).

12. Subprofessional Experience: As defined in Rule R4-30-101 (maximum 6 months credit).

D. A candidate shall take and pass the engineer-in-training examination. The in-training examination is administered by the Board and provided by the National Council of

Engineering Examiners and consists of the following:

Fundamentals of Engineering 8 hours

A candidate must receive a minimum score of 70% as established by the Board on the examination to complete successfully this requirement.

R4-30-224. Engineer Registration Requirements

A. A candidate for registration as a professional engineer shall be of good moral character and repute, have met the engineer-in-training requirements of Rule R4-30-222 and meet the examination and other requirements of this rule.

B. A candidate shall have been actively engaged in engineering experience, or education and experience, for at least eight years, of which a maximum of five years may be credited for education at a college, university or institution of higher learning as specified in Rule R4-30-222, except that, regardless of time credited toward admission to the in-training examination, full educational credit shall be granted only for an ABET-accredited engineering degree in the candidate's branch of application. A candidate with an ABET-accredited degree in another branch of engineering shall receive 36 months educational credit. A maximum credit of one year's experience may be given toward the eight-year active engagement

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requirement for the full-time teaching of engineering subjects in an ABET-accredited engineering degree program. Work experience credited toward the eight-year active engagement requirement shall be directly related to the applicant's branch of engineering and of a character satisfactory to the Board and attained as described in Rule R4-30-222, except that work experience for specific branches of engineering as described in Rule R4-30-222 shall be for the purpose of qualifying a candidate for registration only and shall not be construed to restrict or confine the work practices of or engineering engagements accepted by a registrant. A candidate who has graduated from a four-year engineering degree program in his branch of engineering, accredited by ABET or an equivalent predecessor organization at the time of graduation, and who has been actively engaged in engineering practice in his branch of a character satisfactory to the Board for at least 12 years after graduation is exempt from the engineer-in-training examination.

C. A candidate shall take and pass the professional engineer examination offered in his branch of engineering. The professional examinations are administered by the Board and

consist of the following:

1. Aeronautical, agricultural, chemical, civil, electrical, industrial, mechanical, metallurgical, mining, nuclear, petroleum, sanitary engineers - Principles and Practices (provided by the National Council of Engineering Examiners) 8 hours
2. Geological, geophysical engineers - Principles and Practices (provided by the Board) 8 hours
3. Structural engineers -
 - a. Principles and Practices (provided by the National Council of Engineering Examiners) 8 hours
 - b. Lateral Force Analysis and Design (provided by the Board) 4 hours
 - c. Structural Engineering Design (provided by the Board) 4 hours

A candidate must receive a minimum score of 70% as established by the Board on the examination or, if a structural candidate, on each part of the examination to complete successfully this requirement.

R4-30-242. Geologist-in-training Registration Requirements

A. A candidate for geologist-in-training registration shall be of good moral character and repute, and be a graduate of a geology degree program approved by the Board, or been actively engaged in geological education or experience or both for at least four years. If qualified by education or experience or both, a candidate shall also meet the in-training

examination requirement described in Subsection D of this rule.

B. To qualify for admission to the in-training examination solely on the basis of education, a candidate must be a graduate of a four-year degree program with a major in geology at a college or university accredited at the time of graduation by a regional accrediting agency recognized by the Arizona Board of Regents. If a candidate is a graduate of a four-year degree program with a major in geology at an unaccredited college or university, the Board shall evaluate the curriculum to determine whether it is substantially equivalent to a curriculum at an accredited college or university. If the curriculum is determined to be substantially equivalent, the candidate shall qualify for admission to the in-training examination. If the curriculum is determined not to be substantially equivalent, the candidate shall receive pro rata credit based upon the content of the curriculum relative to that of a curriculum at an accredited college or university. Whether a graduate or not, a candidate who has successfully completed course work in a geology or other degree or technical program at a college, university or other institution of higher learning, whether accredited or not, shall receive pro rata credit for courses determined to be substantially equivalent to such courses in a geology curriculum at an accredited college

or university. In determining pro rata credit, 30 semester hours or 45 quarter hours shall equal 12 months credit.

C. To qualify for admission to the in-training examination, a candidate who is not a graduate of a four-year degree program with a major in geology at an accredited college or university specified in Subsection B of this rule, shall have at least four years of education or experience or both directly related to the practice of geology. Education shall be credited as described in Subsection B, above. Work experience shall be of a quality set forth in this subsection and shall be attained under the direct supervision of a registered professional geologist, except that a maximum of one year's experience may be attained under the direct supervision of a registrant in another profession regulated by the Board. A student may earn up to a maximum 75% credit for full-time work experience while enrolled in a college, university or other institution of higher learning. For purposes of crediting such experience, "full-time work experience" shall mean a minimum of 30 hours a week of work which is of a quality set forth in this subsection, is earned as provided in this subsection and can be substantiated by the employer on the required Certificates of Experience. Experience directly related to the practice of geology of a character satisfactory to the Board includes but is not limited to the following:

1. Consultation: The active involvement in meetings,

discussions and development of reports intended to provide information, facts or advice regarding natural resources and surface and subsurface geological conditions and the preparation of geological maps for use in consultations with clients.

2. Evaluation: The evaluation of mining and petroleum properties, groundwater resources, unconsolidated earth materials, mineral fuels, natural hazards and land use limitations.

3. Supervision of Exploration: The supervision of the geological phases of engineering investigation, exploration for mineral and natural resources, metallic and nonmetallic ores, petroleum and groundwater resources.

4. Administration: Administrative experience, including office and field administration, field or laboratory testing, quotation requests, change orders, cost accounting, bidding procedures and project closeouts (maximum 12 months credit).

5. Editing or Writing: The editing or writing for publication of articles, books, newsletters or other written materials on geological subjects (maximum 6 months credit).

6. Engineering: Experience in related branches of engineering (maximum 6 months credit).

7. Subprofessional Experience: As defined in Rule R4-30-101 (maximum 6 months credit).

D. A candidate shall take and pass the geologist-in-training examination. The in-training examination is

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administered and provided by the Board and consists of the following:

Fundamentals of Geology 8 hours

A candidate must receive a minimum score of 70% as established by the Board on the examination to complete successfully this requirement.

R4-30-244 Geologist Registration Requirements

A. A candidate for registration as a professional geologist shall be of good moral character and repute, have met the geologist-in-training requirements of Rule R4-30-242 and meet the examination and other requirements of this rule.

B. A candidate shall have been actively engaged in geological experience, or education and experience, for at least eight years, of which a maximum of five years may be credited for education at a college, university or other institution of higher learning as specified in Rule R4-30-242. A maximum credit of one year's experience may be given toward the eight-year active engagement requirement for the full-time teaching of geology subjects at an accredited college or university as specified in Rule R4-30-242. Work experience credited toward the eight-year active engagement requirement shall be of a character satisfactory to the Board and attained as described

in Rule R4-30-242. A candidate who has graduated from a four-year degree program with a major in geology at a college or university accredited at the time of graduation as specified in Rule R4-30-242 and has been actively engaged in geological practice of a character satisfactory to the Board for at least 12 years after graduation is exempt from the geologist-in-training examination.

C. A candidate shall take and pass the professional geologist examination. The professional examination is administered and provided by the Board and consists of the following:

Principles and Practices of Geology 8 hours

A candidate must receive a score of 70% as established by the Board on the examination to complete successfully this requirement.

R4-30-252. - Landscape Architect-in-training Registration Requirements

A. A candidate for landscape architect-in-training registration shall be of good moral character and repute, and be a graduate of a landscape architectural degree program approved by the Board, or been actively engaged in landscape architectural education or experience or both for at least four years. If qualified by education or experience or both, a

candidate shall also meet the in-training examination requirement described in Subsection D of this rule.

B. To qualify for admission to the in-training examination solely on the basis of education, a candidate must be a graduate of a four- or five-year landscape architectural degree program accredited at the time of graduation by the Landscape Architectural Accreditation Board (LAAB) or an equivalent predecessor organization. If a candidate is a graduate of an unaccredited four- or five-year landscape architectural degree program, the Board shall evaluate the curriculum to determine whether it is substantially equivalent to an accredited curriculum. If the curriculum is determined to be substantially equivalent, the candidate shall qualify for admission to the in-training examination. If the curriculum is determined not to be substantially equivalent, the candidate shall receive pro rata credit based upon the content of the curriculum relative to that of an accredited curriculum. Whether a graduate or not, a candidate who has successfully completed course work in a landscape architectural or other degree or technical program at a college, university or other institution of higher learning, whether accredited or not, shall receive pro rata credit for courses determined to be substantially equivalent to such courses in an LAAB-accredited

curriculum. In determining pro rata credit, 30 semester hours or 45 quarter hours shall equal 12 months credit.

C. To qualify for admission to the in-training examination, a candidate who is not a graduate of a four- or five-year LAAB accredited landscape architectural degree program shall have at least four years of education or experience or both directly related to the practice of landscape architecture. Education shall be credited as described in Subsection B, above. Work experience shall be of a quality set forth in this subsection and shall be attained under the direct supervision of a registered professional landscape architect, except that a maximum of one year's experience may be attained under the direct supervision of a registrant in another profession regulated by the Board. A student may earn up to a maximum 75% credit for full-time work experience while enrolled in a college, university or other institution of higher learning. For purposes of crediting such experience, "full-time work experience" shall mean a minimum of 30 hours a week of work which is of a quality set forth in this subsection, is earned as provided in this subsection and can be substantiated by the employer on the required Certificates of Experience. Experience directly related to the practice of landscape architecture of a character satisfactory to the Board includes but is not limited to the following:

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1. Consultation: The active involvement in meetings, discussions and development of reports intended to provide information, facts or advice regarding the application of landscape architectural principles to fulfill the client's specific requirements.

2. Investigation, Reconnaissance and Research: The search, examination or study to determine the practicality or effectiveness of accepted landscape architectural principles to novel situations or the development of new or alternative solutions to landscape architectural problems.

3. Planning: The preliminary development of objectives, statements, outlines, drafts, drawings, maps or diagrams showing the arrangement, scheme, schedule, program or procedure for determining the most effective solution to a landscape architectural problem.

4. Design: The preparation and use of sketches, plans, drawings, outlines, models or schemes to convey the use and development of land, plantings, landscaping, settings, approaches to buildings, structures or facilities, traffic patterns and drainage or erosion patterns.

5. Supervision of Development: The supervision of the development of land and incidental water areas for the preservation, enhancement or determination of proper land uses, natural land features, ground cover and planting, naturalistic

and esthetic values, settings and approaches, natural drainage and the consideration and determination of inherent problems of the land, including erosion, wear and tear, light and other hazards.

6. Administration: Administrative experience, including office and field administration, field testing, quotation requests, change orders, cost accounting, bidding procedures and project closeouts (maximum 12 months credit).

7. Editing or Writing: The editing or writing for publication of articles, books, newsletters or other written materials on landscape architectural subjects (maximum 6 months credit).

8. Subprofessional Experience: As defined in Rule R4-30-101 (maximum 6 months credit).

D. A candidate shall take and pass the landscape architect-in-training examination. The in-training examination is administered by the Board and provided by the Council of Landscape Architectural Registration Boards and consists of the following:

| | |
|--------------------|---------|
| Subject A: History | 1 hour |
| Subject C: Design | 9 hours |

A candidate must receive a minimum score of 70% as established by the Board on each examination subject to complete successfully this requirement.

R4-30-254. Landscape Architectural Registration Requirements

A. A candidate for registration as a professional landscape architect shall be of good moral character and repute, have met the landscape architect-in-training requirements of R4-30-252 and meet the examination and other requirements of this rule.

B. A candidate shall have been actively engaged in landscape architectural experience, or education and experience, for at least eight years, of which a maximum of five years may be credited for education at a college, university or other institution of higher learning as specified in Rule R4-30-252. A maximum credit of one year's experience may be given toward the eight-year active engagement requirement for the full-time teaching of landscape architectural subjects in an accredited degree program as specified in Rule R4-30-252. Work experience credited toward the eight-year active engagement requirement shall be of a character satisfactory to the Board and attained as described in Rule R4-30-252. A candidate who has graduated from a four- or five-year degree program, accredited by LAAB or an equivalent predecessor organization at the time of graduation, and who has been actively engaged in landscape architectural practice of a character satisfactory to the Board for at

least 12 years after graduation is exempt from the landscape architect-in-training examination.

C. A candidate shall take and pass the professional landscape architect examination. The professional examination is administered by the Board and provided by the Council of Landscape Architectural Registration Boards and consists of the following:

Subject B: Professional Practice 1 hour

Subject D: Design Implementation 7 hours

A candidate must receive a minimum score of 70% as established by the Board on each examination subject to complete successfully this requirement.

R4-30-262 Assayer-in-training Registration Requirements

A. A candidate for assayer-in-training registration shall be of good moral character and repute, and be a graduate of a chemistry, metallurgy or other scientific degree program approved by the Board, or been actively engaged in assaying-related education or experience or both for at least four years. If qualified by education or experience or both, a candidate shall also meet the in-training examination requirement described in Subsection D of this rule.

B. To qualify for admission to the in-training examination solely on the basis of education, a candidate must be a

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graduate of a four-year degree program with a major in chemistry, metallurgy or other science directly related to the analysis of metals and ores at a college or university accredited at the time of graduation by a regional accrediting agency recognized by the Arizona Board of Regents. If a candidate is a graduate of a four-year degree program with a major in chemistry, metallurgy or other science directly related to the analysis of metals and ores at an unaccredited college or university, the Board shall evaluate the curriculum to determine whether it is substantially equivalent to a curriculum at an accredited college or university. If the curriculum is determined to be substantially equivalent, the candidate shall qualify for admission to the in-training examination. If the curriculum is determined not to be substantially equivalent, the candidate shall receive pro rata credit based upon the content of the curriculum relative to that of a curriculum at an accredited college or university. Whether a graduate or not, a candidate who has successfully completed course work in a chemistry, metallurgy or other degree or technical program at a college, university or other institution of higher learning, whether accredited or not, shall receive pro rata credit for courses determined to be substantially equivalent to such courses in a chemistry, metallurgy or other scientific curriculum directly related to

the analysis of metals and ores at an accredited college or university. In determining pro rata credit, 30 semester hours or 45 quarter hours shall equal 12 months credit.

C. To qualify for admission to the in-training examination, a candidate who is not a graduate of a four-year degree program with a major in chemistry, metallurgy or other science directly related to the analysis of metals and ores at an accredited college or university specified in Subsection B of this rule, shall have at least four years of education or experience or both directly related to the practice of assaying. Education shall be credited as described in Subsection B, above. Work experience shall be of a quality set forth in this subsection and shall be attained under the direct supervision of a registered professional assayer, except that a maximum of one year's experience may be attained under the direct supervision of a registrant in another profession regulated by the Board. A student may earn up to a maximum 75% credit for full-time work experience while enrolled in a college, university or other institution of higher learning. For purposes of crediting such experience, "full-time work experience" shall mean a minimum of 30 hours a week of work which is of a quality set forth in this subsection, is earned as provided in this subsection and can be substantiated by the employer on the required Certificates of Experience. Experience directly

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related to the practice of assaying of a character satisfactory to the Board includes but is not limited to the following:

1. Experience in the analysis of ferrous and nonferrous metals, minerals, fabrics and rock or powdered ores.
2. Experience in all phases of fire analysis for the isolation or quantification of precious metals or minerals or any other substance in them, the experience to include: identification of sample metals, ores, minerals or alloys; preweighing of sample preparations; use of assaying weights; grit sizing; dehydration; sampling; crushing; mixing; rolling; coning; truncating; quartering; firing; choice and use of fluxes; button processing; cupellation; weighing; parting; and calculation.
3. Experience in wet analysis or titration procedures.
4. Experience in analysis by atomic absorption.
5. Experience in the use of mineral standards.
6. Consultation with clients or colleagues in service or work requiring the use of the knowledge of mineral sciences and assaying and the application of this knowledge in assignments involving the evaluation and analysis of metals, minerals and ores.
7. Editing or writing for publication of articles, books, newsletters or other written materials on assaying-related

of chemistry, metallurgy or other scientific subjects

subjects (maximum 6 months credit).

8. Subprofessional experience as defined in Rule R4-30-101 (maximum 6 months credit).

D. A candidate shall take and pass the assayer-in-training examination. The in-training examination is administered and provided by the Board and consists of the following:

Fundamentals of Assaying 8 hours

A candidate must receive a minimum score of 70% as established by the Board on the examination to complete successfully this requirement.

R4-30-264 Assayer Registration Requirements

A. A candidate for registration as a professional assayer shall be of good moral character and repute, have met the assayer-in-training requirements of Rule R4-30-262 and meet the examination and other requirements of this rule.

B. A candidate shall have been actively engaged in assaying experience, or education and experience, for at least six years, of which a maximum of four years may be credited for education at a college, university or other institution of higher learning as specified in Rule R4-30-262. A maximum credit of one year's experience may be given toward the six-year active engagement requirement for the full-time teaching of chemistry, metallurgy or other scientific subjects

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directly related to the analysis of metals and ores at an accredited college or university as specified in Rule R4-30-262. Work experience credited toward the six-year active engagement requirement shall be of a character satisfactory to the Board and attained as described in Rule R4-30-262. A candidate who has graduated from a four-year degree program with a major in chemistry, metallurgy or other science directly related to the analysis of metals and ores at a college or university accredited at the time of graduation as specified in Rule R4-30-262 and has been actively engaged in assaying practice of a character satisfactory to the Board for at least 12 years after graduation is exempt from the assayer-in-training examination.

C. A candidate shall take and pass the professional assayer examination. The professional examination is administered and provided by the Board and consists of the following:

Principles and Practices of Assaying examination 8 hours
 A candidate must receive a minimum score of 70% as established by the Board on the examination to complete successfully this requirement.

R4-30-282. Land Surveyor-in-training Registration Requirements

A. A candidate for land surveyor-in-training registration

shall be of good moral character and repute, and be a graduate of a land surveying degree program approved by the Board, or been actively engaged in land surveying education or experience or both for at least four years. If qualified by education or experience or both, a candidate shall also meet the in-training examination requirement described in Subsection D of this rule.

B. To qualify for admission to the in-training examination solely on the basis of education, a candidate must be a graduate of a four-year land surveying degree program accredited at the time of graduation by the Accreditation Board for Engineering and Technology (ABET) or an equivalent predecessor organization. If a candidate is a graduate of an unaccredited four-year land surveying degree program, the Board shall evaluate the curriculum to determine whether it is substantially equivalent to an accredited curriculum. If the curriculum is determined to be substantially equivalent, the candidate shall qualify for admission to the in-training examination. If the curriculum is determined not to be substantially equivalent, the candidate shall receive pro rata credit based upon the content of the curriculum relative to that of an ABET-accredited curriculum. A candidate with a four-year ABET-accredited civil engineering degree shall receive 36 months educational credit. Whether a graduate or not, a candidate who has successfully completed course work in a land surveying or other degree or

technical program at a college, university or other institution of higher learning, whether accredited or not, shall receive pro rata credit for courses determined to be substantially equivalent to such courses in an ABET-accredited land surveying curriculum. In determining pro rata credit, 30 semester hours or 45 quarter hours shall equal 12 months credit.

C. To qualify for admission to the in-training examination, a candidate who is not a graduate of a four-year ABET-accredited land surveying degree program shall have at least four years of education or experience or both directly related to the practice of land surveying. Education shall be credited as described in Subsection B, above. Work experience shall be of a quality set forth in this subsection and shall be attained under the direct supervision of a registered professional land surveyor or engineer, except that a maximum of one year's experience may be attained under the direct supervision of a registrant in another profession regulated by the Board. A student may earn up to a maximum 75% credit for full-time work experience while enrolled in a college, university or other institution of higher learning. For purposes of crediting such experience, "full-time work experience" shall mean a minimum of 30 hours a week of work which is of a quality set forth in this subsection, is earned as provided in this subsection and can be substantiated by the employer on the required Certificates of

Experience. Experience directly related to the practice of land surveying of a character satisfactory to the Board includes but is not limited to the following:

1. The measurement of space, water, land or structures located or to be located upon or within them, to determine boundaries, areas or other necessary calculations through the use of any mechanical, physical, electric or electronic equipment or devices commonly used by registered professional land surveyors.

2. The analysis of measurement data through the use of professional knowledge or education or practical experience in the mathematical and physical sciences and in the principles of land surveying.

3. The location or relocation, establishment or re-establishment of boundaries, easements, rights-of-way, bench marks or corners.

4. Consultation with clients to determine the necessity of land surveying services and the determination of the correct type of services necessary to fulfill the client's needs and objectives.

5. The search of any source of public or private records for the purpose of performing a survey or to determine, and if

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necessary to reconcile, differences between the surveyor's collected data and such records.

6. The platting or subdividing of land or the planning and design of parcels of land for development purposes.

7. The preparation and maintenance of survey records.

8. Other land surveying activities, analyses or investigations described in A.R.S. § 32-101(B)(19).

9. The participation in office and field administration, quotation requests, bidding procedures, cost accounting and project closeouts (maximum 12 months credit).

10. The editing or writing for publication of articles, books, newsletters or other written materials on land surveying subjects (maximum 6 months credit).

11. Construction staking (maximum 12 months credit).

12. Subprofessional experience as defined in R4-30-101 (maximum 6 months credit).

D. The candidate shall take and pass the land surveyor-in-training examination. The in-training examination is administered by the Board and provided by the National Council of Engineering Examiners and consists of the following:

Fundamentals of Land Surveying 8 hours

A candidate must receive a minimum score of 70% as established by the Board to complete successfully this requirement.

R4-30-284. Land Surveyor Registration Requirements

A. A candidate for registration as a professional land surveyor shall be of good moral character and repute, have met the land surveyor-in-training requirements of Rule R4-30-282, and meet the examination and other requirements of this rule.

B. A candidate shall have been actively engaged in land surveying experience, or education and experience, for at least six years, of which a maximum of four years may be credited for education at a college, university or other institution of higher learning as specified in Rule R4-30-282. A maximum credit of one year's experience may be given toward the six-year active engagement requirement for the full-time teaching of land surveying subjects in an ABET-accredited land surveying degree program. Work experience credited toward the six-year active engagement requirement shall be of a character satisfactory to the Board and attained as described in Rule R4-30-282. A candidate who has graduated from a four-year land surveying degree program, accredited by ABET or an equivalent predecessor organization at the time of graduation, and who has been actively engaged in land surveying practice of a character satisfactory to the Board for at least 12 years after graduation is exempt from the land surveyor-in-training examination.

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C. The candidate shall take and pass the professional land surveyor examination. Part One of the professional examination is administered by the Board and provided by the National Council of Engineering Examiners and consists of the following:

Principles and Practices of Land Surveying 4 hours

Part Two of the professional examination is administered and provided by the Board and consists of the following:

Arizona Surveying Methods and Legal Principles 4 hours

A candidate must receive a minimum score of 70% as established by the Board on each part of the examination to complete successfully this requirement.

Section 4. A new Article 3 (Regulatory Provisions) of Title 4, Chapter 30, A.C.R.R. consisting of the following rules is added to read as follows:

Article 3: REGULATORY PROVISIONS

R4-30-301. Rules of Professional Conduct

A. All registrants shall comply substantially with the following standards of professional conduct:

1. A registrant shall not submit any materially false

statements or fail to disclose any material facts requested in connection with his application for certification.

2. A registrant shall not engage in fraud, deceit, misrepresentation or concealment of material facts in advertising, soliciting or providing professional services to members of the public.

3. A registrant shall not knowingly sign, stamp or seal any plans, drawings, blueprints, land surveys, reports, specifications or other documents not prepared by the registrant or his bona fide employee.

4. A registrant shall not knowingly commit bribery of a public servant as proscribed in A.R.S. § 13-2602 or knowingly commit commercial bribery as proscribed in A.R.S. § 13-2605 or violate any federal statute concerning bribery.

5. A registrant shall comply with all federal, state and local building, fire, safety, real estate and mining codes, and any other laws, codes, ordinances, or regulations pertaining to the registrant's professional practice. A registrant shall not provide any professional services in violation of any such laws, codes, ordinances or regulations.

6. A registrant shall not violate any state or federal criminal statute involving fraud, misrepresentation, embezzlement, theft, forgery or breach of fiduciary duty, where the

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violation is related to the registrant's professional practice.

7. A registrant shall apply the technical knowledge and skill which would be applied by other qualified registrants who practice the same profession. A registrant shall conduct a land survey engagement in accordance with the contemporary "Manual of Surveying Instructions" issued by the Bureau of Land Management, United States Department of Interior and in effect prior to May 23, 1983 to the extent applicable to that professional engagement.

8. A registrant shall not accept an assignment where the duty to a client or the public would conflict with the registrant's personal interest or the interest of another client without full disclosure of all material facts of the conflict to each person who might be related to or affected by the project or engagement in question.

9. A registrant shall not accept compensation for services related to the same project or professional engagement from more than one party without making full disclosure to all such parties and obtaining the express written consent of all parties involved.

10. Except as provided in paragraph 11 of this rule, a registrant shall not accept any professional engagement or assignment outside his professional registration unless (i) he

is qualified by education, technical knowledge or experience to perform such work and (ii) such work is both necessary and incidental to the work of his profession on that specific engagement or assignment. A registered professional engineer may accept professional engagements or assignments in branches of engineering other than that branch in which he has demonstrated proficiency by registration but only if he has the education, technical knowledge or experience to perform such engagements or assignments.

11. Except as otherwise provided by law, code, ordinance or regulation, a registrant may act as the prime professional for a given project and select collaborating professionals; however, the registrant shall perform only those professional services for which he is qualified by registration to perform and shall seal and sign only the work prepared by him or by his bona fide employee working under his direct supervision.

12. A registrant shall make full disclosure to all parties concerning (i) any transaction involving payments to any person for the purpose of securing a contract, assignment or engagement, except for actual and substantial technical assistance in preparing the proposal; or (ii) any monetary, financial or beneficial interest the registrant may hold in a contracting firm or other entity providing goods or services, other than the registrant's professional services, to a project or engagement.

13. A registrant shall not solicit, receive or accept compensation from material, equipment or other product or services suppliers for specifying or endorsing their products, goods or services to any client or other person without full written disclosure to all parties.

14. If a registrant's professional judgment is overruled or not adhered to under circumstances where a serious threat to the public health, safety or welfare results or would result, the registrant shall immediately notify the client or employer. If the client or employer does not take appropriate remedial action within a reasonable amount of time under the circumstances, the registrant shall also notify the Board of the specific nature of the public threat.

15. If called upon or employed as a arbitrator to interpret contracts or to judge contract performance, or to perform any other arbitration duties, the registrant shall render decisions impartially and without bias to any party.

B. Failure to substantially comply with any provision of this section shall be deemed to be evidence of gross negligence, misconduct or professional incompetence.

R4-30-303. Securing Seals

A. Each registrant must secure and use a rubber stamp one and one-half inches in diameter consisting of two concentric

circles. The inner circle shall be one and one-eighth inches in diameter. The upper portion of the annular space between the two circles shall bear whichever of the following phrases is applicable to the registrant:

"Registered Architect"; "Registered Professional Engineer" together with the branch of engineering in which registered; "Registered Geologist"; "Registered Landscape Architect"; "Registered Land Surveyor"; or "Registered Assayer".

At the bottom of the annular space between the two circles shall appear the inscription "Arizona, U.S.A."; the inner circle shall contain the name of the registrant, his registration number and the words "date signed".

B. The registrant may order his seal through any vendor and shall pay the cost of its manufacture. Immediately upon receipt of the seal and prior to using the seal for any purpose, the registrant shall file with the Board, for its records, on a form provided by the Board, an imprint of the seal with an original signature superimposed over it and an affidavit regarding the use of the seal. The Board, within ten working days of receipt of the form from the registrant, shall disapprove any seal not meeting the exact specifications of Subsection A of this rule and shall require the registrant to obtain and pay for another seal meeting those specifications prior to sealing any work. Engineers registered in more than

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one branch shall secure and use a seal for each branch of engineering in which registration has been granted. No additional or replacement seal shall be ordered or obtained by a registrant without first providing the Board, for its records, a sworn statement attesting to the need and purpose and following the procedures set forth in this subsection for securing seals.

R4-30-304. Use of Seals

An imprint of the registrant's seal shall appear on each original sheet of drawings or maps or on one sheet of several master sheets used for reproduction into a single sheet of finished drawings or maps; on the original cover and index page of each set of specifications; on the original cover and index page of details bound in book form and prepared specifically to supplement project drawings or maps; and on the original cover and index page of reports and other professional documents prepared by a registrant or his bona fide employee. All such materials shall be sealed prior to submittal to the client, unless specifically marked as "Schematic--Not for Construction Use" and, in all cases, shall be sealed prior to submittal to any regulatory or review body. Superimposed over the imprint of the seal shall be the original signature of the registrant and the date when the seal imprint was signed.

Application for Registration to Practice

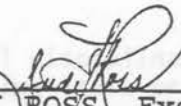
R4-30-306. Securing Identifying Markers

Registered land surveyors, and registered engineers engaged in land surveying, shall secure at their expense metal rods, pipes, tags, caps or embossed nails which shall show the registrant's Arizona Registration Number as issued by the Board, and each registration number shall be prefixed by the letters L.S. or P.E., as the case may be.

R4-30-307. Use of Identifying Markers

Registered land surveyors, and registered engineers engaged in land surveying, shall securely attach an identifying marker to every permanent survey point set when surveying tracts of land for the determination of their correct locations.

These rules were adopted by the Board, subject to certification by the Attorney General, on May 24, 1983.



JUDI ROSS, Executive Director
Board of Technical Registration

1675A

State of Arizona

APPENDIX A

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

FOR
ARCHITECTS, ASSAYERS, ENGINEERS, GEOLOGISTS, LANDSCAPE
ARCHITECTS AND LAND SURVEYORS
1645 W. JEFFERSON, SUITE
PHOENIX, ARIZONA 85007
255-4053

A.G. RULE NO: 83-089

05844

Fee Attached \$ _____ Amount

Application for Registration to Practice

1. GENERAL INFORMATION

Date Filed _____, 19____

Name in Full _____
(Check preferred mailing address below)

Residence Address _____

City _____ State _____

Zip Code _____ Telephone _____

Business address _____

City _____ State _____

Zip Code _____ Telephone _____

Present Position _____

Date of Birth _____ Citizenship _____

Legal Resident of what State _____

In what profession are you applying for registration, as an
Architect, Assayer, Engineer, Geologist, Landscape Architect
or Land Surveyor? _____

If an Engineer, proficiency in (Branch)? _____

If any answer to the following question is "yes" attach a detailed explanatory statement.

1. Has your registration ever been suspended or revoked in any state or other jurisdiction? Yes _____ No _____

2. Have you ever been the subject of professional disciplinary action, or do you now have such action pending against you, in any state or other jurisdiction? Yes _____ No _____

3. Have you ever been known by a name other than the one shown on this application? Yes _____ No _____
If yes, please state that name: _____

4. Have you ever been convicted of a felony or misdemeanor other than minor traffic violations? Yes _____ No _____

5. If you have been convicted of a crime, have your civil rights been restored? Yes _____ No _____

Insert unmounted recognizable photograph in this space with face not less than 3/4" wide. Affix signature at bottom of photograph.

Fill Out This
Form On
Typewriter
Only

(Separate applications are required if registration is desired in more than one profession or more than one branch of engineering.)

2. EDUCATION

AG. RULE NO: 83-089

ALL EDUCATION MUST BE VERIFIED BY CERTIFIED TRANSCRIPTS FORWARDED DIRECTLY FROM THE OFFICE OF THE REGISTRAR OF THE COLLEGE OR UNIVERSITY ATTENDED. 5845

(State in chronological order the name and location of each college, university, or technical school attended, the time spent at each and if a graduate, the year of graduation. If not an Engineering or Architectural graduate, outline nature and extent of studies.)

| Name and Location of Institution | Years From - To | Date Graduated | Technical Course | Degree Received |
|--|-----------------|----------------|------------------|-----------------|
| Architectural, Assaying, Engineering, Geological, Landscape Architectural or Surveying education | | | | |
| College or University Work other than Architectural, Assaying, Engineering, Geological, Landscape Architectural or Surveying | | | | |

3. PREVIOUS REGISTRATIONS
List all prior registrations

IN-TRAINING REGISTRATION:

Profession _____ Cert.No. _____ State _____ Yr. _____ Hrs. of written exam _____

PROFESSIONAL REGISTRATION:

| | | | | | | |
|------------|-------|-----------|----------|--|---------------------|---------------|
| Profession | State | Year Reg. | Reg. No. | How registered - exam, reciprocity, etc. | Hrs of written exam | Active/Lapsed |
|------------|-------|-----------|----------|--|---------------------|---------------|

Have you ever applied for or had registration refused in any state or other jurisdiction?
 Yes _____ No _____
 If so, what state _____ and year _____. Explain (attach additional details if necessary):

4. PENDING APPLICATIONS

Do you have an application for registration pending in any state or other jurisdiction?
 Yes _____ No _____
 What state/jurisdiction: _____
 If yes, profession? _____ In-training? _____ Professional? _____
 Hours of written examination taken? _____ Results? _____
 Current status of application?

5. NATIONAL CERTIFICATES OF QUALIFICATION

Do you hold a certificate of qualification in your field of application issued by a national bureau of registration or certification? Yes _____ No _____
 If yes, provide the following information:

| Name & Address of Issuing Organization | Type of Certificate | Date of Issue | Status (Active/Lapsed) |
|--|---------------------|---------------|------------------------|
| | | | |

6. PROFESSIONAL EXPERIENCE
 CANDIDATE MUST COMPLETE ALL SPACES FOR EACH ENGAGEMENT 45846

Additional sheets may be attached if necessary

All experience must be verified by the candidate's current and former employers on Certificates of Experience provided them by the Board. Refer to enclosed instructions for definitions of experience.

| NAME AND CURRENT ADDRESS OF EMPLOYER | Dates of Employment give Month and Year | | TIME IN MONTHS | | | | |
|--|---|----|----------------|----------------------------|------------------------|-------------------------|-------------|
| | | | Total Time | A in Sub-Professional Work | B in Professional Work | C in Responsible Charge | D in Design |
| JOB TITLE NAME OF SUPERVISOR JOB TITLE OF SUPERVISOR | FROM | TO | TOTAL | A | B | C | D |
| NAME AND CURRENT ADDRESS OF EMPLOYER | WORK DESCRIPTION | | | | | | |
| YOUR JOB TITLE | | | | | | | |
| SUPERVISOR'S NAME | | | | | | | |
| SUPERVISOR'S JOB TITLE | | | | | | | |
| NAME AND CURRENT ADDRESS OF EMPLOYER | FROM | TO | TOTAL | A | B | C | D |
| NAME AND CURRENT ADDRESS OF EMPLOYER | WORK DESCRIPTION | | | | | | |
| YOUR JOB TITLE | | | | | | | |
| SUPERVISOR'S NAME | | | | | | | |
| SUPERVISOR'S JOB TITLE | | | | | | | |
| NAME AND CURRENT ADDRESS OF EMPLOYER | FROM | TO | TOTAL | A | B | C | D |
| NAME AND CURRENT ADDRESS OF EMPLOYER | WORK DESCRIPTION | | | | | | |
| YOUR JOB TITLE | | | | | | | |
| SUPERVISOR'S NAME | | | | | | | |
| SUPERVISOR'S JOB TITLE | | | | | | | |
| NAME AND CURRENT ADDRESS OF EMPLOYER | FROM | TO | TOTAL | A | B | C | D |
| NAME AND CURRENT ADDRESS OF EMPLOYER | WORK DESCRIPTION | | | | | | |
| YOUR JOB TITLE | | | | | | | |
| SUPERVISOR'S NAME | | | | | | | |
| SUPERVISOR'S JOB TITLE | | | | | | | |

| NAME AND CURRENT ADDRESS OF EMPLOYER | Dates of Employment give Month and Year | | TIME IN MONTHS | | | | |
|--|---|----|----------------|----------------------------|------------------------|-------------------------|-------------|
| | | | Total Time | A in Sub-Professional Work | B in Professional Work | C in Responsible Charge | D in Design |
| JOB TITLE NAME OF SUPERVISOR JOB TITLE OF SUPERVISOR NAME AND CURRENT ADDRESS OF EMPLOYER | FROM | TO | TOTAL | A | B | C | D |
| WORK DESCRIPTION | | | | | | | |
| YOUR JOB TITLE | | | | | | | |
| SUPERVISOR'S NAME | | | | | | | |
| SUPERVISOR'S JOB TITLE | | | | | | | |
| NAME AND CURRENT ADDRESS OF EMPLOYER | FROM | TO | TOTAL | A | B | C | D |
| WORK DESCRIPTION | | | | | | | |
| YOUR JOB TITLE | | | | | | | |
| SUPERVISOR'S NAME | | | | | | | |
| SUPERVISOR'S JOB TITLE | | | | | | | |
| NAME AND CURRENT ADDRESS OF EMPLOYER | FROM | TO | TOTAL | A | B | C | D |
| WORK DESCRIPTION | | | | | | | |
| YOUR JOB TITLE | | | | | | | |
| SUPERVISOR'S NAME | | | | | | | |
| SUPERVISOR'S JOB TITLE | | | | | | | |
| NAME AND CURRENT ADDRESS OF EMPLOYER | FROM | TO | TOTAL | A | B | C | D |
| WORK DESCRIPTION | | | | | | | |
| YOUR JOB TITLE | | | | | | | |
| SUPERVISOR'S NAME | | | | | | | |
| SUPERVISOR'S JOB TITLE | | | | | | | |

AFFIDAVIT
 INFORMATION CONTAINED IN THIS APPLICATION TO BE TRUE AND CORRECT
 OF MY EMPLOYER

NOTICE
 IS A FELONY PUNISHABLE BY FINE OR IMPRISONMENT

7. References

15848 AG. RULE NO: 83-089

Please provide the name and address of each of the supervisors listed above. If you are unable to provide the names and addresses of supervisors for at least three engagements, provide an explanation in the space below and list, in addition to the supervisors whose names and addresses you can provide, the names and addresses of three additional references, unrelated to you, at least two of whom shall be registered in the profession in which registration is sought. NOTE: Beside each non-supervisory reference, type the word "personal". Do not provide personal references if you can provide the names and addresses of supervisors for at least three engagements.

| Name | Address | Zip Code | Position |
|------|---------|----------|----------|
| | | | |
| | | | |
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| | | | |
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| | | | |
| | | | |
| | | | |

Explanation (If unable to provide three supervisory references):

8. AFFIDAVIT

I CERTIFY THE INFORMATION CONTAINED IN THIS APPLICATION TO BE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

STATE OF _____ }
 County of _____ } ss.

_____ being first duly sworn, deposes and says: I am the Applicant named in this application, have read and understand the contents thereof, and to the best of my knowledge and belief, the foregoing statements are true and correct in every respect.

Subscribed and sworn to before me this

_____ day of _____, 19____

(Signature of Applicant)

My Commission expires _____

(Signature of Notary Public)

NO PROCESSING OF THIS APPLICATION SHALL BEGIN UNTIL ALL
 VERIFYING INFORMATION IS RECEIVED BY THE BOARD

NOTICE

MAKING A FALSE SWORN STATEMENT IS A FELONY PUNISHABLE BY FINE OR IMPRISONMENT

A.R.S. 13-2702 13-2703

CERTIFICATE OF EXPERIENCE 15849

- In-training _____
- Professional _____
- Architect _____
- Assayer _____
- Engineer _____
- Geologist _____
- Landscape Architect _____
- Land Surveyor _____

TO THE EMPLOYER: The Board will rely on your answers to the following questions in determining whether or not this candidate should be issued a certificate to practice as a professional in Arizona. Please recognize the importance of this information and give due care to your responses. Use additional pages, if required. PLEASE PRINT OR TYPE

FULL NAME OF CANDIDATE _____
Candidate to be a good moral character and resident? Yes

First Middle Last

Period of Candidate's full-time employment: From _____ to _____
month day year month day year

Candidate's position during full-time employment: _____
For evaluation of this candidate's qualifications with respect to registration?

Period of candidate's part-time employment: From: _____ to _____
month day year month day year

Approximate number of hours worked weekly: _____
by personal observations and are true

Candidate's position during part-time employment: _____

1. Please explain your relationship with the candidate. Check one.

I have employed the candidate or used his/her services and I have reviewed this candidate's work product for its sufficiency and quality.

I have employed the candidate or used his/her services but have not directly reviewed or considered the sufficiency of his/her work.

Other. Please explain: _____

2. Has the candidate been employed in positions which you consider called for independent decisions or action? Yes _____ No _____
or registration current? Yes No

3. Professional Engineer or Engineer-in-training candidates only: Please indicate in which engineering proficiency (branch) the candidate worked while in your employ? _____
 If the candidate worked in more than one proficiency (branch), please indicate those proficiencies and the approximate percentage of time spent in each.

4. Please describe the candidate's work experience and scope of responsibility while in your employ. If the candidate was involved in more than one major area of work or responsibility, please define each and indicate approximate percentage of time spent in each. PLEASE BE SPECIFIC

5. Do you consider this candidate to be of good moral character and repute? Yes No COMMENTS: _____

6. What is your evaluation of this candidate with regard to registration?

I certify that the above answers are based on my personal observations and are true and correct to the best of my knowledge and belief.

Name _____
First Middle Last

Title or Position _____

Firm, Company or Government Agency _____

Address _____

Telephone _____

Professional Registration _____ Registration No. _____ State _____

Date of Registration _____ Is your registration current? Yes No

Signature _____

Please place imprint of seal below:



State of Arizona BOARD OF TECHNICAL REGISTRATION

AG. RULE NO: 83-089

FOR ARCHITECTS, ASSAYERS, ENGINEERS, GEOLOGISTS, LANDSCAPE ARCHITECTS AND LAND SURVEYORS
1645 W. JEFFERSON, SUITE 140 • PHOENIX, ARIZONA 85007 • (602) 255-4053

_____ has applied for in-training ____/
professional ____ registration as an: Architect ____; Assayer ____; Engineer ____
with proficiency in _____; Geologist ____; Landscape Architect ____;
Land Surveyor ____ and has given your name as a reference.

It will be appreciated if you will evaluate the qualifications of this applicant in the light of professional requirements. You will understand that while an examination may determine an applicant's technical ability to do the standard task, it does not determine his/her honesty, integrity, dependability, resourcefulness, judgment, ability to take responsible charge and other qualities and traits of character necessary in a competent and ethical professional. These characteristics show up in practice and are known only to the applicant's acquaintances and associates. Thanks for your help.

Very truly yours,

Executive Director

1. How long have you known this applicant? _____
2. Is the applicant related to you by blood or marriage? Yes _____ No _____
3. Is your acquaintance sufficiently intimate to give you confidence in predicting his/her response when confronted with unethical opportunities? Yes _____ No _____
4. Do you believe him/her to be of good moral character and repute? Yes _____ No _____
Comment: _____
5. Has the applicant ever worked with you or for you? Yes _____ No _____
Explain the length of time and the nature of his/her work.

6. Was his/her performance satisfactory?

05852

7. Do you have knowledge of other work which the applicant has done? Yes _____
No _____ If so, please explain the nature of the work.

8. Please list the highest type of job for which you would assign this applicant complete responsibility were he/she in your employ.

9. What is your evaluation of this applicant with regard to registration. ✓

IT IS UNDERSTOOD THAT THIS INFORMATION WILL NOT BE USED FOR ANY PURPOSE EXCEPT IN THE EVALUATION OF THE QUALIFICATIONS OF THE APPLICANT FOR REGISTRATION.

I am _____, am not _____ a registered professional.

Profession _____ Registration No. _____ State _____

Place imprint of registration seal here

Signed _____

Title _____

Firm/Agency _____

NOTE: If additional space is needed to complete your response to any question, please securely attach additional sheets.

3. EDUCATION ENGAGEMENT

Must be certified by Dean or Faculty Advisor

I, _____, hereby certify that the education information regarding _____

is true and correct to the best of my knowledge.

(Type name)

TRANSCRIPTS MUST BE FORWARDED INSTEAD OF ENGAGEMENT; HOWEVER, TRANSCRIPTS MUST BE FORWARDED AND RECEIVED PRIOR TO ADMISSION TO EXAMINATION.

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION
FOR
Architects, Assayers, Engineers, Geologists, Landscape Architects
and Land Surveyors
1645 West Jefferson, Suite 140
PHOENIX, ARIZONA 85007

Date Filed _____

05853

**APPLICATION FOR THE
IN-TRAINING PROGRAM**

Architect-in-training _____ Geologist-in-training _____
Assayer-in-training _____ Landscape Architect-in-training _____
Engineer-in-training _____ Land Surveyor-in-training _____

1. GENERAL INFORMATION

Name of Candidate _____
Current Mailing Address _____ Telephone No. _____
(Mail will be sent to this address unless otherwise advised)
Zip Code _____
Permanent Home Address _____
Zip Code _____
Date of Birth _____ Citizenship _____
Are you a current resident of Arizona? _____

If any answer to the following questions is "yes," attach a detailed explanatory statement.

1. Have you ever been known by a name other than the one shown on this application? _____
If so, please state that name: _____
2. Have you ever been convicted of a felony or misdemeanor other than minor traffic violations? _____
3. If you have been convicted of a crime, have your civil rights been restored? _____
If so, describe on a separate sheet.

2. EDUCATION

ALL EDUCATION MUST BE VERIFIED BY CERTIFIED TRANSCRIPTS FORWARDED DIRECTLY FROM THE OFFICE OF THE REGISTRAR OF THE COLLEGE OR UNIVERSITY ATTENDED PRIOR TO GRANTING OF IN-TRAINING CERTIFICATION. TRANSCRIPTS OF NON-DEGREEED APPLICANTS, OTHER THAN SENIORS, CLAIMING ANY EDUCATIONAL CREDIT MUST BE FORWARDED AND RECEIVED PRIOR TO ADMISSION TO EXAMINATION. SENIORS SHOULD NOT HAVE TRANSCRIPTS FORWARDED UNTIL DEGREE HAS BEEN AWARDED.

| | Degree | Date | University | Dept. of School |
|---------------------|--------|------|------------|-----------------|
| First Professional | | | | |
| Second Professional | | | | |
| Other | | | | |

3. EDUCATION ENDORSEMENT

Must be certified by Dean or Faculty Advisor

I, _____, hereby certify that the education information regarding
this applicant and noted in No. 2 above is true and correct to the best of my knowledge.
Signature _____ Title (please type) _____

NOTE: GRADUATES MAY HAVE TRANSCRIPTS FORWARDED IN LIEU OF ENDORSEMENT; HOWEVER, TRANSCRIPTS MUST BE FORWARDED AND RECEIVED PRIOR TO ADMISSION TO EXAMINATION.

4. EXPERIENCE RELATED TO THE FIELD OF APPLICATION

AG. RULE NO: 83-089
5854

ALL EXPERIENCE MUST BE VERIFIED BY THE CANDIDATE'S CURRENT OR FORMER EMPLOYERS ON CERTIFICATES OF EXPERIENCE PROVIDED THEM BY THE BOARD

| Current Name and address of employer | Work Description |
|--|------------------|
| from _____ to _____ Dates of employment _____ Place of employment _____ Job Title _____ Supervisor _____ Title _____ | |
| Name and address of employer _____ Work Description _____ from _____ to _____ Dates of employment _____ Place of employment _____ Job Title _____ Supervisor _____ Title _____ | |
| Name and address of employer _____ Work Description _____ from _____ to _____ Dates of employment _____ Place of employment _____ Job Title _____ Supervisor _____ Title _____ | |

5. EMPLOYMENT ENDORSEMENT

_____, hereby certify that this applicant is currently in my employ and that the information noted above regarding his current employment is true and correct.

Signed _____ Title _____
Address _____

6. EXAMINATION

If this application is accepted, I will take the examination at 5855
() Phoenix () Tucson () Flagstaff, unless otherwise notified.
Check one

7. AFFIDAVIT

STATE OF ARIZONA)
County of _____) ss.

_____ being first duly sworn, deposes and says, I am the applicant named in this application; I have read the same and know the contents thereof, and the same is true in substance and effect.

Subscribed and sworn to before me this _____ day of _____, 19__

My Commission expires _____ (Notary Public)

NO PROCESSING OF THIS APPLICATION SHALL BEGIN UNTIL ALL VERIFYING INFORMATION IS RECEIVED BY THE BOARD.

NOTICE

MAKING A FALSE SWORN STATEMENT IS A FELONY PUNISHABLE BY FINE OR IMPRISONMENT.
A.R.S. 13-2702; 13-2703.

APPENDIX "A"
To Circular of
Information No. 1

EDUCATION AND TRAINING REQUIREMENTS FOR NCARB CERTIFICATION
RELEASED: JULY, 1982; THIS EDITION OF APPENDIX "A" SUPERSEDES
ALL PREVIOUS TABLES OF EQUIVALENTS.

INTERN-ARCHITECT DEVELOPMENT PROGRAM (IDP) APPLICANTS REFER
TO APPENDIX "B" FOR THEIR TRAINING REQUIREMENTS.

A person seeking NCARB Certification is required to be a registered architect
with five years of professional education and three years of practical
training. Education and training may be gained in a variety of ways. This
Appendix identifies and explains those education and training equivalents
and alternatives.

| Experience Description | Education Credits* | | | Training Credits | |
|---|--------------------|---------------------|------------------------|-------------------|------------------------|
| | First 2 Years | Succeeding Years | Max. Credit Allowed | Credit Allowed | Max. Credit Allowed |
| A-1 First professional degree in architecture, or credits toward the first professional degree, where the degree program has been accredited by the National Architectural Accrediting Board ("NAAB") not later than two years after termination of enrollment | 75% | 100% | 5 years | } Sec B-3.1.2 | |
| A-2 First professional degree in architecture, or credits toward that degree, where the degree program has not been accredited by NAAB | 75% | 75% | 4 years | | |
| A-3 Bachelor degree, or credits toward that degree, in architectural engineering, architectural technology, or in civil, mechanical, or electrical engineering, accredited by the Engineers' Council for Professional Development or the Accreditation Board for Engineering and Technology, or in interior architecture, accredited by the Foundation for Interior Design Education Research | 50% | 75% | 3 years | | |
| A-4 Any other bachelor degree | | | 2 years | | |
| A-5 Experience, directly related to architectural work, as an employee in the offices of registered architects | 50% | 50% | 5 years | 100% | no limit |
| A-6 Experience, practicing as a principal, with a verified record of substantial practice, directly related to architectural work | 50% | 50% | 5 years | 100% | no limit |
| A-7 Experience as an employee of an organization (other than offices of registered architects) when the experience is directly related to architectural work and is under the direct supervision of a registered architect | 50% | 50% | 4 years | 100% | 2 years |
| A-8 Experience as an employee of an organization (other than offices of registered architects) when the experience is directly related to architectural work, and is under the direct supervision of a professional engineer, landscape architect, interior designer, or planner | | 0 | | 50% | 1 year |
| A-9 Experience, other than A-5, A-6, A-7 or A-8 experience, directly related to on-site building construction operations or experience involving physical analyses of existing buildings | | 0 | | 50% | 6 months |
| A-10 A Master or Doctoral degree in architecture (except where the degree is the first professional degree) | | 0 | | 100% | 1 year |
| A-11 Teaching or research in an NAAB accredited architectural program | | 0 | | 100% | 1 year |
| A-12 Other Education or Training Experience (see B-5.2) | | | | | |

*In 1980, the Council adopted the requirement that all candidates for certification who are not registered by a member board prior to July 1, 1984, must hold an NAAB accredited professional degree in architecture.

Explanation of Requirements

B-1 Certification Standards

B-1.1 To be granted NCARB Certification, an applicant must:

- .1 Be at least 21 years of age;
- .2 Hold a high school diploma or equivalent;
- .3 Be of good character as verified by employers, architects, and NCARB member boards;
- .4 Hold an NAAB accredited degree, or have at least 5 years of education credits;
- .5 Have at least 3 years of training credits;
- .6 Hold a current registration to practice architecture issued by an NCARB member board;
- .7 Have passed the NCARB Architect Registration Examination: (ARE), the NCARB Professional Examination (and the Qualifying Test or the Equivalency Examination when applicable by NCARB standards) or the NCARB 7-part, 36-hour Examination: provided such examinations and the grading procedures applied were in accordance with NCARB standards current at the time the applicant sat for the examinations.

B-1.2 Applicants meeting all the requirements of B-1.1 above, except .7, may nonetheless be granted NCARB Certification if the applicant has accumulated ten or more years of excess training credits (earned as described in B-2.1) prior to December 31, 1971, and has passed the NCARB Oral Examination.

B-2 Examination Deficiencies

B-2.1 Prior to July, 1973, the NCARB written examination was a 7-part examination of 36-hour duration, but some NCARB member boards administered examinations of a shorter duration. Compensation for each one-hour deficiency in duration in the 7-part examination may be achieved by one year of excess training credits. Excess training credits may be earned only after initial registration by accumulating training credits in excess of those required for NCARB Certification. Applicants who have earned, under A-6, ten or more years of excess training credit (in the manner described in the preceding sentence) and

have received their initial registration by written examination, regardless of hour duration, are eligible for Certification.

B-2.2 NCARB may waive deficiencies in the applicant's examination procedure arising from the examination transition which occurred between July 1973 and January 1, 1978, if, in its judgment, such deficiencies are minor in nature or, if substantial, have been adequately compensated for by some equivalent proof of the applicant's competency.

B-2.3 The transition rules relating to the implementation of the NCARB ARE will be described in Circular of Information No. 2.

B-3 Education Credits

B-3.1 Education Credits shall be subject to the following conditions:

- .1 No education credits may be earned prior to graduation from high school.
- .2 Applicants with the degree specified in A-1 through A-4 will be allowed the credit shown in the Maximum Credit Allowed column, regardless of the length of the degree program. Applicants without the degree specified in A-1 or A-2 may not accumulate more than 3 years of education credits in the aggregate from all degree programs.

.3 32 semester credit hours or 48 quarter credit hours are considered to be 1 year. Fractions of a year of one-half or greater will be considered one-half year, and smaller fractions will not be counted.

.4 Foreign education credits will be granted only under classifications A-2 and A-4. Any cost of translation and evaluation will be borne by the applicant.

B-4 Training Credits

B-4.1 Training credits shall be subjected to the following conditions:

- .1 No training credits may be earned prior to accumulating 2½ education credits.
- .2 Every applicant must earn at least one year of training credit under A-5 or A-6 and must earn it after earning 5 years of education credits.
- .3 To earn credit under A-10 or A-11, an applicant's credit hours must be in subjects evaluated by NCARB as directly related to architecture. 20 semester credit hours or 30 quarter credit hours of teaching or equivalent time in research will equal 1 year.
- .4 No credit used as an education credit may be used as a training credit.
- .5 Organizations will be considered to be "offices of registered architects" if: (a) the architectural practice of the organization in which the applicant works is in the charge of a person practicing as a principal and the applicant works under the direct supervision of a registered architect, and (b) the organization is not engaged in construction, and (c) the organization has no affiliate engaged in construction which has

- a substantial economic impact upon the person or persons in the organization practicing as a principal.
- .6 An organization (or an affiliate) is engaging in construction if it customarily engages in either of the following activities:
 - (a) undertakes to provide labor and/or material for all or any significant portion of a construction project, whether on lump sum, cost plus or other basis of compensation, or
 - (b) agrees to guarantee to an owner the maximum construction cost for all or any significant portion of a construction project.
- .7 A person practices as a "principal" by being (a) a registered architect and (b) the person in charge of the organization's architectural practice, either alone or with other registered architects.
- .8 In evaluating training credits NCARB may, prior to Certification, require the applicant to substantiate training experience by comparing this experience to the training requirements as indicated for the Intern-Architect Development Program (IDP). See Appendix "B" and IDP Training Guidelines.

B-5 General Evaluation Criteria

B-5.1 To earn full education or training credits under A-5, A-6, A-7, A-8 and A-9 an applicant must work at least 35 hours per week for a minimum period of ten consecutive weeks under A-5 or 6 consecutive months under A-6, A-7, A-8 or A-9. An applicant may earn one-half the credit specified under A-5 for work of at least 20 hours per week in periods of 6 or more consecutive months; no credit will be given for part-time work in any category other than A-5.

B-5.2 Other education and training may be substituted for the requirements outlined above, only insofar as the NCARB Committee on Procedures and Documents considers them to be equivalent to the required qualifications. B-5.3 In evaluating credits, NCARB may, prior to Certification, require substantiation of the quality and character of the applicant's experience, notwithstanding the fact that the applicant has complied with the technical education and training requirements set forth above.

IDP Applicant
Defined

An IDP Applicant for NCARB Certification is a person who has completed the IDP Training Requirements listed below in lieu of Standard B-1.1.5 of Appendix "A".

Training
Requirements

An IDP Applicant must acquire a total of 700 Value Units (VU's) to satisfy the training requirements. One VU equals 8 hours of acceptable activity.

The following chart list the IDP Training Categories and Areas and the Value Unit requirements for each.

CATEGORY A

Design and Construction Documents Minimum VU's Required

| | |
|--|-----|
| 1. Programming—Client Contact..... | 10 |
| 2. Site and Environmental Analysis... | 10 |
| 3. Schematic Design | 15 |
| 4. Building Cost Analysis..... | 10 |
| 5. Code Research..... | 15 |
| 6. Design Development | 40 |
| 7. Construction Documents | 155 |
| 8. Specifications & Materials Research | 15 |
| 9. Documents Checking and Coordination..... | 15 |

Minimum Total VU's Required 360*

CATEGORY B

Construction Administration

| | |
|--------------------------------------|----|
| 10. Bidding Procedures..... | 10 |
| 11. Construction Phase—Office | 15 |
| 12. Construction Phase—Observation.. | 15 |

Minimum Total VU's Required 70*

CATEGORY C

Office Management

| | |
|----------------------------------|----|
| 13. Office Procedures | 15 |
| 14. Professional Activities..... | 10 |

Minimum Total VU's Required 35*

*The differences between the minimum total VU's required in each of Categories A, B and C and the sum of the minimums required for each Training Area within the Category must be acquired by earning VU's from Training Areas within the same Category.

CATEGORY D

Related Special Activities

No Minimum Required 0

The above listing of required minimums in Categories A, B and C totals 465 VU's, allowing for 235 additional VU's to be acquired in any of the listed Categories. All of the 235 additional VU's may be acquired in one Category or distributed among the Categories.

Explanation of
Requirements

1 VU's in Categories A, B and C may be acquired only if the applicant meets the time requirements of B-5.1 of Appendix "A". VU's may be acquired in Category D only if the activity is substantial and continuous.
2 No VU's may be acquired prior to earning 2½ years of education credits (see Appendix "A").
3 A Master or Doctoral degree in architecture (except where the degree is the first professional degree) qualifies for 235 VU's under Category D.
4 An IDP applicant may earn VU's by completing NCARB-approved supplementary education programs; credit to be in accordance with a table of credits established by NCARB. No VU's may be earned for supplementary education while enrolled in a first or second professional degree program in architecture.

5 To satisfy Categories A and B of the Training Requirements, VU's must be acquired in settings described in A-5 or A-7 of Appendix "A".
6 A minimum of 235 VU's must be acquired in the setting described in A-5 of Appendix "A" after having earned five years of education credits.
7 In evaluating training, NCARB may, prior to Certification, require substantiation of the quality and character of the training notwithstanding the fact that the IDP applicant has complied with the technical training requirements set forth above.
8 For detailed descriptions of the IDP Training Categories and supplementary education requirements, see *IDP Training Guidelines*. Refer to Appendix "A" for education requirements and NCARB Certification standards.

Statement of
Rex A. Tynes, P.E.
to
ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

Concerning
Proposed Rules and Regulations
at Public Hearing, May 24, 1983

1. This statement is respectfully submitted by Rex A. Tynes, P.E., a registrant of the Board (No. 1245) and an Arizona resident, of 13802 Tan Tara Drive, Sun City, Arizona, 85351. I am semi-retired, and have previously been in consulting engineering practice in several southwestern states. I have been licensed as an engineer in nine states, have served on the engineering licensing board of New Mexico, Nevada and Colorado, and have authored numerous papers on the subject of engineering licensure.

2. The "Rules Proposal", prepared by the Board, consisting of 79 pages plus attachments, is indicative of much thought and study, and is well-prepared. The Board and staff should be commended for the preparation of this document.

3. As an editorial comment, there appears to be duplication on pages 28-30 pertaining to paragraph D, which concerns denial by the Board of applications for or admittance to the examination. There is inconsistency in subparagraph 5, however. I would recommend that the first subparagraph 5 be retained.

4. Under R4-30-207, Registration Without Examination, Paragraph B, provision is made for registration without examination for candidates who hold certificates of qualification issued by the American Institute of Professional Geologists and/or the National Council of Architectural Registration Boards (design and seismic qualifications). This provision should include holders of certificates from the National Council of Engineering Examiners. If current Arizona law precludes this, the law should be amended at the earliest opportunity. If permissible by law and if omitted by the Board as a rule, then the matter should be reconsidered. In any event, the N.C.E.E. certificate should be accepted in Arizona, as in most other states.

5. On page 44, subparagraph d, the description for Electrical design, development and location, provided it is imperative to segregate branches of engineering practice, is in need of further work. I suggest the Board request the assistance of educators in this field in re-writing this sub-paragraph.

6. As a general comment, it appears that the Board is making a deliberate and strong effort to further emphasize the segregation of professional engineers by "branches". Even though the Arizona law, unfortunately, recognizes these "branches", it hardly seems necessary to perpetuate the problem. Only about 20 percent of the states provide for engineering specialty licensing. Proponents of this form of licensing claim an importance of an engineer offering his services only in the field in which he is proficient and plead that "branch" licensing is necessary to prevent abuses to this principle. But they apparently ignore the fact that this merely excludes one engineer (licensed) from practicing what is questionably considered by some as "outside his field" and forget the importance of the public's protection by prohibiting the unqualified (and unlicensed) individual from practicing engineering.

The American Society of Civil Engineers is clearly on record as supporting interdisciplinary licensing with safeguards "through more effective administration of present registration laws and the support of high ethical standards of conduct by professional engineers". A past president of A.S.C.E., W. L. Chadwick, stated that registration by discipline would greatly reduce the value of registration and could possibly contribute to the destruction of the engineering profession itself. He further stated that "neither the public safety nor assurance against malpractice would be enhanced by such stratification".

It should be noted that the National Council of Engineering Examiners "Model Law" is based on interdisciplinary, rather than "branch" licensing.

The point here is not of changing the existing Arizona law to correct this problem (as there will be a proper opportunity for this), but to emphasize that the "branch" concept has been greatly over-emphasized in these proposed rules and revisions should be made to avoid this.

7. As an example of the undue emphasis on "branch" licensing is the proposed requirement under Paragraph 11 on page 47 that, in evaluating experience, only six months credit be given for engineering experience outside one's "branch". This is the same amount of experience proposed for a salesman (Paragraph 10), or for editing or writing (Paragraph 9), or for sub-professional experience (Paragraph 12), and only half as much as may be given for surveying. I suggest that this experience credit be made at least 24 months, but more importantly, that the emphasis on segregation of engineers by branches be eliminated from the rules.

8. This problem is further aggravated in Paragraph B on page 48 by the proposal to give a candidate for registration with an ABET-accredited degree in another branch of engineering only 36 months credit, as compared with 60 months credit in the applicant's "branch". Engineering education has changed, and is in the process of changing more, toward uniform "core" requirements. This has been brought on, of course, by computers, added emphasis on economics, social studies and environmental considerations. Although it is a cliché, it has been said many times that "after you are out of engineering school and working for ten years you will not even be aware of the wording of the engineering degree you received". It should also be pointed out that many universities offer degree programs in engineering without "branches".

It also seems unreasonable to give a maximum of only one year's experience credit for full-time teaching of engineering subjects in an ABET-accredited program. Although I believe a registered engineer should have experience other than class room, I believe the one year allowance is too little. I suggest making it preferably three, since some states allow four years.

9. Again we are plagued by the "branch" emphasis in Paragraph B on page 49 where it is proposed to exempt an applicant from the E.I.T. examination provided he has a degree from a four-year program in his branch of engineering, and further provided that he has 12 acceptable years experience in his branch of engineering. Both these requirements greatly over-emphasize the "branch" concept and should be changed. It should be understood that I am not recommending weakening the requirements for licensure -- but only eliminating the over-emphasis on "branch" licensing.

10. The Rules of Professional Conduct, commencing on page 72, should be preceded by a form of preface, establishing that the purpose of setting forth the standards of professional conduct is clearly to protect the public interests of safety and economics, and to establish a practical and proper balance between the two.

Paragraph 7 on page 74 should be amplified with respect to the care which a registrant shall exercise in rendering his services. It should provide that, in the public interest, registrants shall not submit proposals for providing professional services which contain fees or compensation bases which, if evaluated on price alone would determine the professional to be engaged in a particular assignment, thus possibly resulting in, or being considered to result in, inadequate attention to the assignment in order to meet the proposed fee schedule, and, in turn, to an unprofessional performance with resulting physical or economic injury to the public.

I am, of course, aware of the difficulties and misunderstandings between legal groups and professions (other than the legal profession) during the past decade involving codes of ethics, particularly where "bidding" for professional services is involved. The ASCE and NSPE cases have been of special interest. But here is a different situation. The Board is directed to set forth professional rules to protect the public. And bidding for professional services is clearly in opposition to the public interest, and only the uninformed who consider only "first cost" could think otherwise. Bidding should be declared improper conduct within the scope of these rules.

11. On page 4 of Appendix F, an accuracy requirement, based on closure, is specified. This requirement (not to exceed 0.0005 ft.) is inconsistent, except in minute areas, with the preceding paragraph which established a 1/10,000 in distance and direction criterion. In my opinion, the 0.0005 ft. requirement can not be realized in practice except through "luck", and is beyond the capability of machines and/or their operators. This requirement should be thoroughly reviewed. I do not consider it within my professional capability to recommend an exact figure for this, but recommend more study of the problem and advice from qualified persons.

12. On application forms I suggest requiring photographs, finger prints and social security numbers of applicants. This is in the interest of protection of the applicant, other applicants, the public and the Board.

13. Consideration of these comments by the Board and the staff will be appreciated. Thank you for the opportunity to offer these suggestions.

Respectfully Submitted:



Rex A. Tynes, P.E.

APLS
J. J. [unclear]

CHC 5703 [unclear]

May 24, 1983

APLS PUBLIC STATEMENT RE: RULES OF THE BOARD OF TECHNICAL REGISTRATION.

The objective of any law, regulation or guideline is for the safety, health and welfare of the public.

The Arizona Professional Land Surveyors has objectively and dispassionately reviewed the pending RULES of the Arizona Board of Technical Registration.

We find that, on the whole the RULES meet the criterion of health, safety and welfare of the citizens of Arizona and should therefore be adopted, with some modification, by the BTR.

There is, however, some constructive criticism and suggestions which we, the APLS submit in an honest and forthright manner. It is our hope that the effectiveness of these pending rules might better serve the public.

- 1. AS APPLICANT FOR PROFESSIONAL REGISTRATION AS A LAND SURVEYOR WHO SATISFIES ANY ONE OF THE REQUIREMENTS OF THIS RULES OR SECTIONS 21-123 AND 21-124 SHALL ALSO TAKE AND PASS THAT PART OF THE PROFESSIONAL LAND SURVEYOR EXAMINATION RELATING TO SURVEYING PRINCIPLES AND LOCAL REGULATIONS IN THE STATE OF ARIZONA AND PRESCRIBED BY THE BOARD OF TECHNICAL REGISTRATION IN THESE RULES, 21-101-104.
- 2. (Fourth line from bottom)
 - Change to, and change to read: CREDIT SHALL BE GIVEN FOR SUB-PROFESSIONAL WORK EXPERIENCE, INCLUDING SUMMER WORK, GAINED WHILE EMPLOYED AS A FULL-TIME STUDENT IN A COLLEGE, UNIVERSITY OR OTHER DIVISION OF HIGHER LEARNING ONLY THROUGH A WORKING-LEARN PROGRAM IN CONSTRUCTION WITH A LAND SURVEYING CERTIFICATION.
- 3. Rule 101 21-paragraph 2.
 - The analysis of measurement data through the use of professional knowledge as acquired by education or practical experience in the mathematical and physical sciences and the principles of the practice of land surveying as defined in A.R.S. 21-101 (1) (17).
- 4. Rule 101 Write everything after "21-101 (1) (17)"

APLS
Jay Fisher
 CHM STD'S Comm

ITEM IV, CRITIQUE OF BTR RULES PACKAGE

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PG 2)

1) (page 23) Sub-paragraph A, 2. Insert:

Provide the names and addresses of immediate supervisors in past and present employment. CANDIDATES SHALL HAVE ACHIEVED NOT LESS THAN 9 MONTHS OF 'PROFESSIONAL EXPERIENCE' AND 6 MONTHS OF 'RESPONSIBLE CHARGE' EXPERIENCE AS OUTLINED IN R4-30-101 (8) b and c. Candidates who have....

2) (page 31) R4-30-207 Registration without examination. (Insert)

A. A candidate who holds a valid registration in another state, jurisdiction, territory or country may be granted registration without examination, ~~OTHER THAN AN APPLICANT FOR PROFESSIONAL REGISTRATION AS A LAND SURVEYOR, provided:~~ OTHER THAN AN APPLICANT FOR PROFESSIONAL REGISTRATION AS A LAND SURVEYOR, provided:

3) (page 33) (Insert new sub-paragraph)

D. AN APPLICANT FOR PROFESSIONAL REGISTRATION AS A LAND SURVEYOR WHO SATISFIES ANY ONE OF THE REQUIREMENTS OF THESE RULES OR OF ARS 32-126 (A), SHALL ALSO TAKE AND PASS THAT PART OF THE PROFESSIONAL LAND SURVEYOR EXAMINATION RELATING TO SURVEYING METHODS AND LEGAL PRINCIPLES IN THE STATE OF ARIZONA AND PRESCRIBED BY THE BOARD OF TECHNICAL REGISTRATION IN THESE RULES, R4-30-284.

4) (page 68) (fourth line from bottom)

(Strike No, and change to read;) CREDIT SHALL BE GIVEN FOR SUB-PROFESSIONAL WORK EXPERIENCE, INCLUDING SUMMER WORK, GAINED WHILE ENROLLED AS A FULL-TIME STUDENT IN A COLLEGE, UNIVERSITY OR OTHER INSTITUTION OF HIGHER LEARNING ONLY THROUGH A BONAFIDE CO-OP PROGRAM IN CONJUNCTION WITH A LAND SURVEYING CURRICULUM.

5) (page 69) Sub-paragraph 2.

"The analysis of measurement data through the use of professional knowledge ~~as~~ ACQUIRED BY education or practical experience in the mathematical and physical sciences and the principles of THE PRACTICE OF land surveying AS DEFINED IN ARS 32-101 (8) (19)."

6) (page 70) Strike everything after "32-101 (B) (19)"

7) (page 74) Sub-paragraph 7.

"A REGISTERED PROFESSIONAL LAND SURVEYOR SHALL CONDUCT LAND SURVEYING SERVICES IN LIGHT OF THE BODY OF CASE LAW, STATE AND FEDERAL STATUTE LAWS AND OTHER SUCH CODES AS MAY APPLY TO THE PRACTICE OF LAND SURVEYING AS SET OUT IN THE COMPENDIUM OF GUIDELINES "Manual of Surveying instructions" PREPARED BY THE BUREAU OF LAND MANAGEMENT, U. S. DEPARTMENT OF THE INTERIOR AS CURRENTLY AVAILABLE FROM THE SUPERINTENDENT OF DOCUMENTS."

8) (page 79) Strike "OR P. E. AS THE CASE MAY BE."

9) (page 79) STRIKE "AND REGISTERED ENGINEERS ENGAGED IN LAND SURVEYING"

10) Appendix 'A'
Under "4. Pending Applications"

Change "classification" to "CATEGORY" (See R4-30-101 (4) 'Category')

11) Appendix 'A'
Under "6. Professional Experience"

Suggest "PROFILE OF Experience" (See R4-30-101 (8) a, b, c, d)

12) Appendix 'A'
Under "6. Professional Experience", the headings in the table should read:

- 'A' In subprofessional work EXPERIENCE
- 'B' In Professional work EXPERIENCE (MIN. 9 MONTHS)
- 'C' In responsible charge EXPERIENCE (MIN. 6 MONTHS)
- 'D' In design EXPERIENCE

13) Noted as missing are excerpts of the definitions in R4-30-101 (8) a, b, c and d. Also (9) a, b, c, d, e, and f.

Appendix 'B' should be re-drafted:

Emphasis place on time-in-grade for Professional Experience and Responsible Charge Experience.

The BTR, or Advisory Committee, should have as a matter of fact an endorsement of the track record of every candidate. The period of being 'in-grade' should be long enough to clearly indicate that the candidate is minimally competent to perform professional services in "Responsible Charge".

Appendix 'F'

- 1) A. "All registrant Land Surveyors and Engineers" Should be struck or qualified to recognize the fact that an engineers seal will be invalid after June 30, 1984.
- 2) A. "DEVIATIONS" is clearly the wrong word. To 'deviate' means to ignore or violate certain terms or provisions. The APLS September 1981 suggestion used the word 'abridgements which means to shorten, condense or abbreviate any provisions which may not apply to a particular situation while observing the essence of the document.
- 3) B. "The following minimum research and investigation procedures SHALL be used;" This is followed, in the same paragraph, by: "These sources MAY include without limitation the following:"
- Why the contradiction of terms? Experience and prudent professional judgement should be the criterion for records searching.
- 4) D.4 "THE REGISTRANT SHALL COMPLY WITH THE ACCURACY STANDARDS OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, NATIONAL GEODETIC SURVEY TO THE EXTENT APPLICABLE TO HIS PROFESSIONAL PRACTICE AND AS FEASIBLE UNDER THE CIRCUMSTANCES."

Since a 1/10 000 accuracy specification is mentioned in D.2 as mandatory, then it is mandated by the Rule that the general specification for survey accuracy would be what is designated "CLASS I THIRD ORDER" as outlined in "CLASSIFICATIONS, STANDARDS OF ACCURACY AND GENERAL SPECIFICATIONS OF GEODETIC CONTROL SURVEYS" as prepared by the Geodetic control committee, The U. S. Department of Commerce, The National Ocean Survey, (now The National Geodetic Survey).

Among other things this specification (for traverse) calls for angles to be observed with single-second theodolites using four circle positions. Baseline measurements with a standard error not to exceed 1/500 000 (thats about one foot per 95 miles!) The standard error for length measurements (traverse) shall not exceed 1/60 000, (thats about one foot per eleven miles, or 3/16 inch per 1000 feet).

As a practical economic matter, the cost of an ordinary run-of-the-mill lot survey would escalate from about the 250 to 300 dollar range to the 1500 to 3000 dollar range. The professional service would cease to be a practical application of metrology. It would be come an exercise in scientific methodology and statistical manipulation.

Page 5)

- 5) D.3 The term 'adjustment of the survey data' merely means that the field data, (measurements) are mathematically manipulated, usually by some well established statistical concept, the object being to 'fudge' the values so that all of the data forms a mathematically consistant figure. Every measurement of a physical quantity, no matter how refined, contains some error, however small. Then, in a system of interrelated and redundant measurements, small anomalies become apparent. It is imperative that these small anomalies be eliminated by making small 'corrections' to the field data. If the small errors are not eliminated then the accumulation of the many very small errors in an extended system accumulate to suddenly appear in subsequent sub-systems as much larger errors than what would be normally expected. The final adjusted survey results need not be indicated to a closer tolerance, or accuracy of expression, than what is normally expected in survey work.

The mandatory maximum limit of 0.0005 foot is absurd. Elsewhere in the Rule (F.1 f,v) that same 0.0005 foot maximum error is mandated. The only reason for mentioning a maximum at all would be to require that the maximum mathematical discrepancy is consistant with normally close survey work for definition of a discrete point, which is about 0.02 or 0.03 foot.

To display adjusted data to 0.0005 foot means that no longer is data which has been conventionally expressed to 0.01 foot and nearest second of arc but to 0.000005 foot for distance, (that's about 0.00006 inch, or about 1/5 the thickness of a sheet of paper), and about 0.01 second of arc for direction (bearing).

As a whole, the entire paragraph "D. MEASUREMENT SPECIFICATIONS" is an ambiguous, incoherent, muddled requirement.

- 6) E.1 "All registrants engaged in Land Surveying SHALL comply with Title 33, Chapter 1 A. R. S."

Title 33, chapter 1 cites among other things the official obligations and charges of public office of the County Engineer, County Supervisors and affirming rights of entry to private property to surveyors performing surveys for the Federal Government. Actually only two of the sub-sections, 33-105 and 33-106, could reasonably be applicable to the practice of land surveying as administered by the BTR. Does the BTR intend, by board Rule, to extend the enforcement of official charges of public office to all surveyors? And does the Board intend to require all boundary surveys to be referenced to the Arizona State Plane Coordinate System?

We ask in all sincerity, will this (appendix 'F') regulation contribute to the safety, health and welfare of the Public?

We in APLS think not.

In anticipation of the rejection of appendix 'F', the general membership of APLS has, in recent days, unanimously adopted an INDUSTRY STANDARD which has the same objectives as appendix 'F'. That objective is simply to identify what poor survey practices is and gage the performance of registrants engaged in the practice of Land Surveying.

We feel that the INDUSTRY STANDARD is superior to the regulation under consideration here today. It is:

UNAMBIGUOUS
TECHNICALLY CORRECT
IN HARMONY WITH EXISTING STATUTES AND REGULATIONS
ENFORCEABLE

On the other hand Appendix 'F' is:

AMBIGUOUS
LACKS TECHNICAL AUTHENTICITY
MAY CONFLICT WITH SOME EXISTING STATUTES OR OTHER REGULATIONS
WOULD BE DIFFICULT TO ENFORCE

Those persons in the practice of surveying serve the public, either in a direct or indirect manner whether or not the registrant works in the private, public or teaching segment of the work force. Adoption of appendix 'F' would bring to a practical halt all survey services to the public because no surveyor can comply with the incredible technical and performance standards.

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ROBERT J. FISH, P.S.
REG. LAND SURVEYOR
OHIO REG. 4240 ARIZONA REG. 12317
3416 W. CAROL AVE.
PHOENIX, ARIZONA



85021

(602) 942 0041

April 22, 1983

From R. J. Fish, Chm. Standards Committee APLS

To:

Committee Members and APLS General Membership

In an effort to improve the effectiveness of the then existing tentative draft of the Rules of the Board of Technical Registration, APLS submitted suggestions dealing with parameters to evaluate the minimum performance level for the professional practice of land surveying. This was done in a free and forthright manner to serve the public interest.

The Arizona statutes have been re-enacted and amended since the original submission of those suggestions, (April '82, April '83). Some of the former problems have been thereby ameliorated. This past spring the Board of Technical Registration and support staff has edited the original APLS suggestions into a mandatory requirement. The frame of reference has shifted from guidelines to pervasive checklists. Individual skill, discretion, expertise and judgement would no longer be the expected norm. In some degree regimented mediocrity would be enforced while optimum service to the consumer (public) would shrivel.

After a review of appendix 'F' of the current BTR draft of the Rules, APLS withdrew support of the attempt to set or establish the minimum parameters for professional land surveying performance. At the insistence of the APLS Board of Directors the Standards Committee was charged to produce a study draft. The Standards Committee has now produced a draft which in some respects parallels the suggested guideline as submitted by APLS in September 1981.

This most recent study draft is intended to be the basis to establish an INDUSTRY STANDARD for the evaluation of professional service with the similar purpose of ARS 32-101 which is to provide for the safety, health and welfare of the public.

YOUR COMMENTS AND CRITICISM IS SOLICITED.

- cc: Andrews
- Wagoner
- Kesler
- Ray
- Penland
- O'Bannon
- Durand
- Morris
- Ross

RJ Fish
R. J. Fish, Chm. Standards Committee

Fred Peter
Fred Peter, Co-Chm. Standards Committee

W. G. Gaspary
W. G. Gaspary, Co-Chm. Standards Committee

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ARIZONA PROFESSIONAL LAND SURVEYORS GUIDELINES

RECOMMENDED MINIMUM PROCEDURAL AND PERFORMANCE GUIDELINES FOR LAND SURVEYING SERVICES IN THE STATE OF ARIZONA ADOPTED MAY 14, 1983 BY ARIZONA PROFESSIONAL LAND SURVEYORS (A.P.L.S.)

PREAMBLE

To provide for the health, welfare and safety of the public the legislature has enacted into law ARS 32-101 to ARS 32-128 which mandates the parameters for the qualification and performance of professional practice by individuals registered or seeking registration as architects, assayers, engineers, geologists, landscape architects and land surveyors. The law will be administered by the Board of Technical Registration.

Relevant text of ARS 32-101 Included for information

" 'LAND SURVEYING PRACTICE' means the performance of one or more of the following:

- a. Measurement of land to determine the position of any monument or reference point which marks a property line, boundary or corner for the purpose of determining the area or description of the land.
- b. Location, relocation, establishment, re-establishment, setting, re-setting or replacing of corner monuments or reference points which identify land boundaries, rights-of-way or easements.
- c. Platting or plotting of lands for the purpose of subdividing.
- d. Measurement by angles, distances and elevations of natural or man-made features in the air, on the surface and immediate subsurface of the earth, within underground workings and on the surface or within bodies of water for the purpose of determining or establishing their location, size, shape, topography, grades, contours or water surface and depths, and the preparation and perpetuation of field note records and maps depicting these features.
- e. Setting, resetting or replacing of points to guide the location of new construction."

Sub-paragraphs a, b and c are mandated to be exclusively practiced by individuals duly registered as land surveyors.

Sub-paragraphs d and e may be practiced by both land surveyors and engineers. Pursuant to ARS 32-125, all plats, plans, reports and specifications shall be sealed and signed and shall be deemed to include land descriptions.

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- A. These guidelines are intended to indicate the minimum acceptable level for the standards of performance for professional services in the practice of land surveying, a, b and c. These minimum guidelines shall yield in those areas where more restrictive statutes, ordinances or regulations are in effect.

The provisions outlined herein are a minimum level of professional performance. The exercise of individual skill, discretion, expertise and judgement in specific practical situations must always be the primary criterion for professional performance. Observance of the law is mandatory.

In the course of a given situation if some of the broad provisions of these guidelines should not, cannot or are not applicable for reasons which may not be apparent, that fact should be noted on the plat, or in the description. Such abridgments, for cause, will not be construed to be a breach of these minimum guidelines.

- B. **Research and Investigation**
Every retracement of a land title boundary, right-of-way or easement should be made conformable with the record title boundaries of the parcel, right-of-way or easement. The surveyor, prior to making such survey, shall acquire all necessary data which may include but is not limited to copies of deeds, maps, certificates of title, centerline and other boundary data indicating locations in the vicinity of the survey. When retracing public land lines originally established by the GLO/BLM, the guideline and procedures as detailed in the "MANUAL OF SURVEYING INSTRUCTIONS" as currently available from the superintendent of documents, along with the appropriate ancillary publications, as well as the specific plats and field notes shall be integrated with the survey process.

The surveyor shall compare and analyze all of the data obtained and in light of applicable case law make the most nearly correct determination possible of the position(s) of the boundaries of the parcel, right-of-way or easement.

The surveyor shall make a field survey, geometrically connecting all of the available monuments and other evidence of boundary location as appropriate or necessary for the specific location of subject boundaries of the parcel, right-of-way or easement and correlate the facts of such survey with the pre-determined analysis. Subsequent to the correlation, analysis and reconciliation of disclosed discrepancies, monuments shall be either verified or set at each corner for the positive demarcation of subject boundaries.

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Sources used for the boundary determination along with any discrepancies or inconsistencies found shall be shown in the description or on the plat.

- C. Guidelines for the Demarcation of Land Title Boundaries:
When necessary, in accordance with surveying practices and legal requirements, boundary monuments shall be set so that upon completion of the survey, each corner of the parcel, right-of-way or easement shall be physically monumented or referenced. Every monument set shall be of durable material, be identified with a durable marker bearing the registration number of the surveyor and be magnetically detectable.

When it is impossible or impracticable to set a boundary monument on a corner, a reference monument will be set which is similar in character to the boundary monument and preferably along one of the land title lines which intersect at that corner. When a reference monument is used it shall be clearly identified as a reference monument on the plat and in any new deed description which may be written for the property.

Boundary monuments and/or reference monuments set by the surveyor shall meet the standards and requirements set forth in R4-30-306 and R4-30-307 of the rules of the Board of Technical Registration.

In the event that a case arises, due to physical obstructions such as pavements, large rocks, large roots, utility cables and so on, so that neither a boundary monument or reference monument can be conveniently or practicably set in accordance with R4-30-307, then alternative monumentation, which is essentially as durable and identifiable (e.g. chiselled "X" in concrete, drill hole, timber spike, etc.) shall be established for the particular situation.

- D. Measurement Specifications:
Measurements for the performance of land surveys as defined in "LAND SURVEYING PRACTICE", sub-paragraphs a, b and c shall apply procedures and observing programs which will generally result in the attainment of the accuracy standard as follows:

ZONE A (1/20, 000)

Core areas of cities or where zoning regulations permit zero set-backs and other high risk areas where property line locations are critical. 1/20, 000 in distance and direction.

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ZONE B (1/10, 000)

Residential areas of towns or cities where the intensity of use does not exceed about six dwelling units to the acre, shopping centers or malls and such other less critical or lower risk areas and where zoning regulations do not permit major structures or buildings to be built on the property line. 1/10, 000 in distance and direction.

ZONE C (1/5, 000)

Rural areas where land may be used for ranch, forestry, recreation, park, mining or other such uses. 1/5, 000 in direction and distance.

Application of the above criteria shall not operate to impose an error of measurement discrepancy which is less than 0.03 feet between sequential monuments.

Instruments, equipment and apparatus which are used in the measurements shall be maintained in such repair or adjustment or shall be compensated for non-standard conditions so that the accuracy parameters outlined above are attainable. Calibration or comparisons with standards traceable to the United States Bureau of Standards shall be made at periodic intervals and a record of the procedure kept on file by the surveyor.

The survey data reported on the plat and/or description shall be adjusted to form a closed figure with a total error not to exceed 0.03 feet in latitudes and/or departures.

E. Plat of Survey Requirements:

Observation of the law is mandatory, particularly ARS 33-105 and ARS 33-106 (relevant text included for information)

- "I. ARS 33-105 Recording of certain land surveys; contents
- A. A land surveyor shall file a record of a land survey not later than ninety days after its completion, with the county recorder of the county where the land is located if such survey establishes points of lines relating to land boundaries or property lines disclosing:
1. A material discrepancy which, in whole or in part, does not appear on any map or record previously recorded or filed with the county recorder, county engineer, highway division of the Department of Transportation or the United States Bureau of Land Management.
 2. Evidence that, by reasonable analysis, might result in alternate positions of lines or points.

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- B. The record of survey shall be a reproducible map, legibly drawn, printed or reproduced by a process assuring a permanent record as required by #11-481.
- C. The record of survey map shall show:
1. All monuments found, set, removed, reset or replaced, the kind, size and location of such monuments and all other data relating to such monuments.
 2. Bearing and length of lines to the nearest one one-hundredth of a foot and ties to witness monuments. Other record data may be shown in chains, varas or other types of measurement as implemented by older surveys.
 3. Basis of bearings, north arrow or other means of orientation and scale of map.
 4. Name or designation of tract or grant in which the survey is located, and ties to adjoining tracts or grants.
 5. Any other data necessary for the intelligent interpretation of the various items and locations of the points, lines and areas shown.
 6. Dates of survey.
- As amended Laws 1976, Ch. 59, 7, eff. May 27, 1976. For legislative intent of Laws 1976, Ch. 59, see note following 15-1152.

II. ARS 33-106 Corner record survey; filing; contents

- A. A land surveyor shall complete, sign and file or cause to be filed with the county recorder of the county in which the corner is situated, a written record of the establishment or restoration of public land corners as established by cadastral surveys of the United States general land office or United States bureau of land management, including those monuments designating boundaries of land grants, military reservations, government and Indian reservations, land patents and mining patents, including also those monuments established as mineral monuments by an authorized United States mineral surveyor. The survey information shall be filed within thirty days after the survey is completed, unless the corner and its accessories are substantially as described in an existing corner record previously filed.
- B. The corner record shall include the following:
1. A report, by sketch or narration, ~~or both~~, concerning ties to existing monuments presumed authentic.

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2. Acceptable monuments found in a perishable or deteriorated condition, a description of what was found and actions taken for the rehabilitation or perpetuation of the monument by the surveyor making such report.
3. New monuments set in a position occupied by old monuments, a description of the new monument as to material, shape, marking, projection above the surface of the ground, distance buried below the ground surface, disposition of the old monument and related items.
4. The procedure followed, by sketch and narration, in reestablishing the corner reported if no acceptable evidence of the original monument or its location can be found.
5. A description of the monument set to perpetuate the corner as reestablished and reported, indicating any bearing trees or objects noted in the general vicinity of the new monument.
6. The location and nature of all reference monuments or objects which would be useful in the identification, recovery or reestablishment of any monument referred to in such report.
7. Acceptable monuments found with reference monuments, accessories and general surroundings materially differing from the information contained in previous corner records. The conditions observed in the survey which materially differ from the original recordation shall be clearly reported by sketch and narration.

Added Laws 1972, Ch. 44, 1, as amended Laws 1974, Ch. 68 15."

12. The survey must be full and complete and certified by the surveyor as meeting these minimum guidelines.
13. General Guidelines for Metes and Bounds Descriptions
Writing a description is a part of "THE PRACTICE OF LAND SURVEYING" as indicated in ARS 32-101 sub-section 19a. "The purpose of a deed description is to (1) describe by words the exact location, geometric shape and size of the land intended to be conveyed by the seller and purchased by the buyer, and (2) identify the land for title purposes. The essential elements of a deed description are; intent, title identity, location, geometric shape, and size. (Brown 277, 1957 edition)

Western Chapter
Arizona Society of Professional Engineers 45878

A description should contain in narrative form a recitation of the same six requirements as found in ARS #33-105.

14. Conclusion

Failure to substantially comply with these minimum land survey guidelines will be considered evidence of gross negligence or professional incompetence in the practice of land surveying.

State Board of Technical Registration
1040 West Jefferson, Room 515
Phoenix, Arizona 85007

Continued:

The Western Arizona Chapter, Arizona Society of Professional Engineers, recently received a copy of the proposed new Rules of the Board of Technical Registration which are to replace those contained in Title 4, Chapter 30, Articles 3 through 7, A.C.S.R. The Western Arizona Chapter is adamantly opposed to Appendix F, Minimum Land Survey Requirements for Boundary Surveys, of the proposed new rules.

The rules contained in Appendix F are tantamount to directing a surgeon how to proceed with a certain surgical procedure or a lawyer how to prepare and present a specific type of case. Professionals such as land surveyors, engineers, doctors, lawyers, etc., are licensed and required to exercise judgment, based on education, experience and knowledge of a particular situation in each case that arises.

Attached is a Resolution adopted by the Western Arizona Chapter, Arizona Society of Professional Engineers, at their monthly meeting of April 23, 1983 in opposition to Appendix F of the proposed Rules of State Board of Technical Registration.

Sincerely,

James E. Persing
James E. Persing, P.E.
Western Arizona Chapter

cc: James L. Rizer
Exec Dir. - ACTA

Western Chapter Arizona Society of Professional Engineers

Yuma, Arizona 85364

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Affiliated With



April 27, 1983

RESOLUTION OF THE WESTERN ARIZONA CHAPTER OF THE ARIZONA SOCIETY OF PROFESSIONAL ENGINEERS OPPOSING THE PROPOSED RULE "APPENDIX F, MINIMUM LAND SURVEY REQUIREMENTS FOR BOUNDARY SURVEYS"

State Board of Technical Registration
1645 West Jefferson, Room 315
Phoenix, Arizona 85007

Gentlemen:

The Western Arizona Chapter, Arizona Society of Professional Engineers, recently received a copy of the proposed new Rules of the Board of Technical Registration which are to replace those contained in Title 4, Chapter 30, Articles 1 through 7, A.C.R.R. The Western Arizona Chapter is adamantly opposed to Appendix F, Minimum Land Survey Requirements for Boundary Surveys, of the proposed new rules.

The rules contained in Appendix F are tantamount to directing a surgeon how to proceed with a certain surgical procedure or a lawyer how to prepare and present a specific type of case. Professionals such as land surveyors, engineers, doctors, lawyers, etc., are licensed and required to exercise judgment, based on education, experience and knowledge on a particular situation in each case that arises.

Attached is a Resolution adopted by the Western Arizona Chapter, Arizona Society of Professional Engineers, at their monthly meeting of April 21, 1983 in opposition to Appendix F of the proposed Rules of State Board of Technical Registration.

Sincerely,

James E. Persing
James E. Persing, P.E.
Western Arizona Chapter

cc: Janice L. Rizer
Exec. Dir. - ACEA

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**Western Chapter
Arizona Society of Professional Engineers**

Yuma, Arizona 85364

Affiliated With



RESOLUTION OF THE WESTERN ARIZONA CHAPTER OF THE ARIZONA SOCIETY OF PROFESSIONAL ENGINEERS OPPOSING THE PROPOSED RULE "APPENDIX F, MINIMUM LAND SURVEY REQUIREMENTS FOR BOUNDARY SURVEYS."

WHEREAS, the Western Arizona Chapter of the Arizona Society of Professional Engineers is concerned with any matters that affect professional engineers and land surveyors in the State of Arizona; and

WHEREAS, guidelines such as those in Appendix F, of the new proposed Rules of the Board of Technical Registration are undoubtedly a good tool for use by surveyors, but these "Rules" do not seem to be an appropriate vehicle for dissemination of this type information; and

WHEREAS, the Western Arizona Chapter does strongly object to any Rule which dictates how a registered professional will proceed in his or her field or that limits his or her discretionary judgment and in this specific matter in such areas as site conditions and the degree of accuracy required or needed.

NOW, THEREFORE, be it resolved by the Western Arizona Chapter of the Arizona Society of Professional Engineers that the State Board of Technical Registration be notified of the Chapter's opposition to "Appendix F, Minimum Land Survey Requirements

ARIZONA DEPARTMENT OF TRANSPORTATION

for Boundary Surveys" of the new proposed rules of the Board of Technical Registration and respectfully requests that Appendix F be deleted from the proposed rules.

James E. Husling
President, Western Arizona Chapter

Chapter members:

David L. Wilson
Alfred J. Morgan
Lang E. Hunt
Thomas G. Long

- 1. Delete "American Society of Landscape Architects Committee on Education (ASLACE)." Substitute "Landscape Architectural Accreditation Board (LAAB)."
 - 2. paragraph 3, last sentence: Change "ASLACE" to "LAAB".
 - 3. paragraph 3, last sentence: Change "light" to "bright". Note - this may be an error in the existing legislation, also.
 - 4. number 2: After "Appendix" add "F".
- 2. The remaining comments pertain to Appendix F. The Highway Commission agrees that there should be standards for the land surveying process. The following comments are made as recommendations to avoid unnecessary standards or to provide clarification.
 - 1. page 1, section A, General Requirement: The last sentence should be changed to read, "Where federal, state or local regulations are more restrictive than these standards or where standards conflict with statutory requirements, the registrant shall follow the more restrictive requirements."
 - 2. page 3, section B.1: Delete second sentence of this paragraph.
 - 3. page 3, section B.2: Delete the first word "Every" and begin the sentence with "Measurement".



BRUCE BABBITT
Governor
WILLIAM A. ORDWAY
Director

ARIZONA DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

206 South Seventeenth Avenue Phoenix, Arizona 85007

May 23, 1983

THOMAS R. LAMMERS
Assistant Director
and State Engineer

Ms. Judy Ross
Executive Director
State of Arizona
Board of Technical Registration
1645 W. Jefferson, Suite 315
Phoenix, Arizona 85007

Dear Ms. Ross:

The following are comments provided by the Arizona Department of Transportation, Highways Division, in reply to the proposed rules which were presented for public hearing on May 24, 1983. The comments are identified by page number and section (when available) for your review and that of the Board.

Page 56, paragraph B, sentence 1: Delete "American Society of Landscape Architects Committee on Education (ASLACE)." Substitute "Landscape Architectural Accreditation Board (LAAB)."

Page 56, paragraph B, last sentence: Change "ASLACE" to "LAAB".

Page 58, paragraph 5, last sentence: Change "light" to "blight". Note - this may be an error in the existing legislation, also.

Page 70, number 8: After "Appendix" add "F".

The remaining comments pertain to Appendix F. The Highways Division agrees that there should be standards for the land surveying profession. The following comments are made as recommendations to avoid unreasonable standards or to provide clarification.

Appendix F, page 1, section A, General Requirement: The last sentence should be changed to read, "Where federal, state or local regulations exist which are more restrictive than these standards or where standards conflict with statutory requirements, the registrant shall follow the more restrictive requirements."

Appendix F, page 3, section D.1: Delete second sentence of this paragraph.

Appendix F, page 3, section D.2: Delete the first word "Every" and begin the sentence with "Measurement".



Letter to: Ms. Judy Ross
May 23, 1983

5883

Page 2

Appendix F, page 4, section D.3: Change to read, "The survey data reported on the plat of legal description shall be adjusted to form a closed figure." (Delete the remainder of the sentence.)

Appendix F, page 6, section F.1-b: This paragraph should be clarified. The intent is not understood.

Appendix F, page 7, section F.1-f-(v): Place a period after the word "figure". Delete the remainder of sentence. Should now read, "The measurement data recited in the description shall comply with the accuracy specifications of paragraph D.2 and shall be adjusted to form a closed figure."

Appendix F, page 7, section H, Conclusion: Insert "survey" between "land" and "requirements". This paragraph should be relocated closer to the beginning of Appendix F and should read: "Failure to substantially comply with these minimum land survey requirements will be considered evidence of gross negligence or professional incompetence in the practice of land surveying."

Thank you for the opportunity to provide comments and if we can be of any further assistance in providing information, please do not hesitate to contact this office.

Very truly yours,



T.R. LAMMERS,
Assistant Director and State Engineer

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

"Putting It All Together For The Engineer"



6588-1 Arizona Society of Professional Engineers

3625 North 16th Street, Suite 111

Phoenix, Arizona 85016

Telephone: (602) 266-4926

April 27, 1983

May 24, 1983

State Board of Technical Registration
1915 West Jefferson, Room 315

TO: Members of the State Board of Technical Registration

FROM: Arizona Society of Professional Engineers

RE: New Rules Public Hearing
Arizona Society of Professional Engineers
copy of the proposed new rules of the Board of Technical Registration which are to replace those

The Arizona Society of Professional Engineers opposes the inclusion of Appendix F in the New Rules for the State Board of Technical Registration. This opposition is in accordance with the reasons outlined by the Arizona Consulting Engineers Association.

Also, attached is a letter of opposition from the Arizona Society of Professional Engineers Western Chapter.

Professionals such as land surveyors, engineers, doctors, lawyers, etc., are licensed and required to exercise judgment, based on education, experience and knowledge on a particular situation in each case that arises.

Attached is a Resolution adopted by the Western Arizona Chapter, Arizona Society of Professional Engineers, at their monthly meeting of April 21, 1983 in opposition to Appendix F of the proposed Rules of State Board of Technical Registration.

Sincerely,

James E. Purling, P.E.
Western Arizona Chapter

Janice L. Rizer
Exec. Dir., ACEA

Western Chapter
Arizona Society of Professional Engineers

45885

Yuma, Arizona 85364

Affiliated With



April 27, 1983

State Board of Technical Registration
1645 West Jefferson, Room 315
Phoenix, Arizona 85007

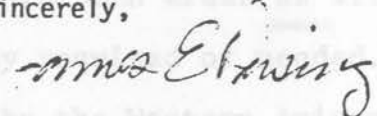
Gentlemen:

The Western Arizona Chapter, Arizona Society of Professional Engineers, recently received a copy of the proposed new Rules of the Board of Technical Registration which are to replace those contained in Title 4, Chapter 30, Articles 1 through 7, A.C.R.R. The Western Arizona Chapter is adamantly opposed to Appendix F, Minimum Land Survey Requirements for Boundary Surveys, of the proposed new rules.

The rules contained in Appendix F are tantamount to directing a surgeon how to proceed with a certain surgical procedure or a lawyer how to prepare and present a specific type of case. Professionals such as land surveyors, engineers, doctors, lawyers, etc., are licensed and required to exercise judgment, based on education, experience and knowledge on a particular situation in each case that arises.

Attached is a Resolution adopted by the Western Arizona Chapter, Arizona Society of Professional Engineers, at their monthly meeting of April 21, 1983 in opposition to Appendix F of the proposed Rules of State Board of Technical Registration.

Sincerely,


James E. Persing, P.E.
Western Arizona Chapter

cc: Janice L. Rizer
Exec. Dir. - ACEA

15886

Western Chapter
Arizona Society of Professional Engineers

Yuma, Arizona 85364

Affiliated With



RESOLUTION OF THE WESTERN ARIZONA CHAPTER OF THE ARIZONA SOCIETY OF PROFESSIONAL ENGINEERS OPPOSING THE PROPOSED RULE "APPENDIX F, MINIMUM LAND SURVEY REQUIREMENTS FOR BOUNDARY SURVEYS."

WHEREAS, the Western Arizona Chapter of the Arizona Society of Professional Engineers is concerned with any matters that affect professional engineers and land surveyors in the State of Arizona; and

WHEREAS, guidelines such as those in Appendix F, of the new proposed Rules of the Board of Technical Registration are undoubtedly a good tool for use by surveyors, but these "Rules: do not seem to be an appropriate vehicle for dissemination of this type information; and

WHEREAS, the Western Arizona Chapter does strongly object to any Rule which dictates how a registered professional will proceed in his or her field or that limits his or her discretionary judgment and in this specific matter in such areas as site conditions and the degree of accuracy required or needed.

NOW, THEREFORE, be it resolved by the Western Arizona Chapter of the Arizona Society of Professional Engineers that the State Board of Technical Registration be notified of the Chapter's opposition to "Appendix F, Minimum Land Survey Requirements

for Boundary Surveys" of the new proposed rules of the Board of Technical Registration and respectfully requests that Appendix F be deleted from the proposed rules.

James E. Rising
President, Western Arizona Chapter

Chapter members:

- Donald R. Peterson*
- Alfred J. Morgan*
- Larry E. Hight*
- Thomas G. Long*
- Melvin Hansen*
- Walter H. ...*
- Gene F. ...*
- Gordon Brandt*
- Thomas E. ...*
- Timothy G. ...*
- R. M. ...*
- ...*
- ...*
- ...*



arizona consulting
engineers association

3625 NORTH 16th STREET

SUITE 111

PHOENIX, ARIZONA 85016

PHONE: (602) 266-4926

05888

May 24, 1983

TO: Members of the Arizona State Board of Technical Registration

FROM: Janice L. Rizer, Executive Director

SUBJECT: RULES HEARING

The Arizona Consulting Engineers Association has sought to discuss the proposed Rules with members of the State Board of Technical Registration, its staff, our membership, members of the Arizona Professional Land Surveyors association, and related industry users. The Rules meet with ACEA concurrence with the exception of Appendix F, "Minimum Land Survey Requirements For Boundary Surveys".

ACEA expresses the following concerns regarding Appendix F:

- A. **Increased Cost to the Consumer:** As written, Appendix F would add hundreds of dollars, or even thousands of dollars, to any future land survey performed in Arizona. Due to the requirements of excessive tolerances for accuracy and extensive research, this would increase the minimum cost of a simple lot retracement from \$150 to as much as \$1,500 and would add several thousand dollars to the cost of a larger parcel survey.
- B. **Workability of Appendix F:** Unfortunately, Appendix F contains many unnecessary requirements when applied to all surveys (i.e. researching the age of all monuments, conferring with owners of all adjacent property, requiring all equipment to be calibrated by the US Bureau of Standards).

It is erroneous to require "the survey data reported on the plat of legal description shall be adjusted to form a closed figure with a total error not to exceed 0.0005 foot in latitudes or departures" and that legal descriptions shall conform to the same tolerances of 0.0005 ft. In order to accomplish this accuracy on a 160 acre parcel survey the bearings would have to be measured to plus or minus 4/1,000,000's of a second!

- C. **Restriction of Competition:** Appendix F discriminates against the small business who cannot afford the \$15,000 to \$30,000 investment required for the electronic survey equipment needed to obtain the required tolerances.

D. Enforcement: The Auditor General Sunset Review did not require technical standards of performance. It does ask for standards of professional conduct and a peer review program. These are both incorporated in the proposed rules and ACEA is in full support. To date many ACEA members have volunteered to serve on the enforcement advisory committees which have proven to be very effective. The level of competence displayed by participants has eliminated the need for industry standards such as Appendix F.

In summary, ACEA views Appendix F, "Minimum Land Survey Requirements For Boundary Surveys", as a possible vehicle to fix prices and exclude competition; ACEA believes Appendix F has not been validated by an independent entity for workability; and ACEA could not endorse adoption of a document which might be subjected to antitrust implications. Again, ACEA suggests Appendix F be struck in its entirety and the following two minor changes be made in the body of the Rules:

R4-30-282. Land Surveyor-In-Training Requirements, C-8: Other land surveying activities, analyses or investigations described in A.R.S. § 32-101-(B) (19) or in "Minimum Land Survey Requirements" attached to these rules as Appendix.

R4-30-301. Rules of Professional Conduct, A-7: A registrant shall exercise reasonable care when rendering professional services and shall apply the technical knowledge and skill which would be applied by other qualified registrants who practice the same profession. ~~A registered professional land surveyor shall conduct any land survey in accordance with the "Manual of Surveying Instructions" issued by the Bureau of Land Management, U.S. Department of the Interior, and in effect on January 1, 1983 and the "Minimum Land Survey Requirements for Boundary Surveys" in Appendix F to these rules, which documents are incorporated by reference as part of these rules.~~

This approach would appear to be in the best interest of all registrants. ACEA shares the concern of State Board Members who want to avoid a complete rewrite of Appendix F and the process time required to again review such a document. Since Appendix F does not have a direct bearing on the Rules pertaining to licensing, it should be a minor modification and can be easily struck.

We appreciate the time and courtesy extended by members of the State Board of Technical Registration and staff. We sincerely seek your concurrence in removing Appendix F from the Rules.



arizona consulting
engineers association

3625 NORTH 16th STREET

SUITE 111

PHOENIX, ARIZONA 85016

April 11, 1983

Mr. Jimmie R. Nunn
1103 East Missouri
Phoenix, AZ 85014

Dear Mr. Nunn:

First, the Arizona Consulting Engineers Association would like to take this opportunity to say "thanks" to each member of the board for their efforts over the past two years in developing the new rules. This has been a monumental task, but we believe it has been well addressed. Those sections dealing with engineering are acceptable to our association.

We do want to express concern, however, regarding Appendix F "Minimum Land Survey Requirements for Boundary Surveys". It first appears under R4-30-282 Land Surveyor-In-Training Requirements, Section C which relates to qualifications for admission to the in-training examination. This asks for experience directly related to the practice of land surveying and lists 12 such possible areas. Under item 8 it reads "Other land surveying activities, analyses or investigations described in A.R.S. 32-101(B) (19) or in "Minimum Land Survey Requirements" attached to these rules as Appendix." Since boundary surveys are already addressed in ARS 32-101(B) (19) and a guideline on how to perform a boundary survey does not relate to qualifications for admission to the in-training examination, we believe item 8 should read "Other land surveying activities, analyses or investigations described in A.R.S. 32-101(B) (19)" deleting the last section of the sentence.

The reference to the appendix also appears under Article 3, Regulatory Provisions, R4-30-301 Rules of Professional Conduct, A-7. This section states "All registrants shall comply with the following standards of professional conduct:". Here the Rules deal directly with ethical practices and not guidelines on how to perform professional services. Therefore, item 7 should read "A registrant shall exercise reasonable care when rendering professional services and shall apply the technical knowledge and skill which would be applied by other qualified registrants who practice the same profession." The second sentence should be deleted entirely since the Rules already address compliance with all federal, state and local laws, codes, ordinances, and regulations.

Guidelines such as Appendix F are undoubtedly a good tool for use by surveyors, but we do not feel the Rules are the appropriate vehicle for dissemination of this information. The State Board of Technical Registration has at its disposal enforcement advisory committees having a minimum of four professional members and one public member. Those professional members serving on a land surveying review will have the expertise to make appropriate recommendations to the Board. They can take into account a surveyor's discretionary judgment, site conditions, etc. without having Appendix F incorporated as part of the Rules.

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RECEIVED

APR 13 1983

PHONE: (602) 266-4926

HAYER, NUNN and COLLAMER
ARCHITECTURE - ENGINEERING - PLANNING, INC.

Sincerely,

Janice L. Rizer

Jimmie R. Nunn
Page -2-

In closing, we ask that Appendix F be removed from the Rules. This will be the position ACEA will take at the time of public hearing and we seek your support in this area. Since this affects only an appendix, we do not feel it will delay adoption of the Rules. Either myself or a member of our board will be in contact with you in the very near future to discuss any concerns you may have regarding the removal of Appendix F.

Sincerely,

Janice L. Rizer
Executive Director

John B. Riggs, Architect
4125 North Central Highway
Phoenix, AZ 85018

Dear Mr. Rizer:

I am writing on behalf of the Arizona Society of Professional Engineers and Arizona Consulting Engineers Association regarding Appendix F to the Proposed Rules and Regulations. On August 27, 1981, I wrote to the State Board of Technical Registration on behalf of both ASPE and ACEA protesting that this "Handbook of Surveying" was inappropriate to be included in the rules and regulations and asking that it be eliminated. The position of both Associations has not changed.

It is inappropriate for the State of Arizona to attempt to set any official technical standards of practice for surveying. This would preclude the Professional Engineer or Land Surveyor from being able to exercise his professional judgment based on experience, education and common sense by dictating the instruments, methods and equipment that must be used, under penalty of being guilty of "gross negligence and professional misconduct."

Further, this action would set a dangerous precedent in that it could pave the way for future attempts to write technical standards of practice for other professions. Any attempt to do so would, of necessity, be very general resulting in arbitrary standards and methods which would have to be applied across the board rather than allowing the professional the flexibility to act appropriate to the situation at hand.

It would be detrimental to the health, safety and welfare of the public for the State Board of Technical Registration to enact rules and regulations which would limit the ability of the registered professional to exercise his good judgment in carrying out the duties of his profession.

420 ...
...
...
...



BROOKS, HERSEY & ASSOCIATES, INC.
ENGINEERS/SURVEYORS

May 18, 1983

John B. Riggs, Architect
6125 North Camino Miraval
Tucson, AZ 85718

Dear Mr. Riggs;

I am writing on behalf of the Arizona Society of Professional Engineers and Arizona Consulting Engineers Association regarding Appendix F to the Proposed Rules and Regulations. On August 27, 1981, I wrote to the State Board of Technical Registration on behalf of both ASPE and ACEA protesting that this "Handbook of Surveying" was inappropriate to be included in the Rules and Regulations and asking that it be eliminated. The position of both Associations has not changed.

It is inappropriate for the State of Arizona to attempt to enact official technical standards of practice for surveying. This would preclude the Professional Engineer or Land Surveyor from being able to exercise his professional judgment based on experience, education and common sense by dictating the tolerances, methods and equipment that must be used, under penalty of being guilty of "gross negligence and professional misconduct."

Further, this action would set a dangerous precedent in that it could pave the way for future attempts to write technical standards of practice for other professions. Any attempt to do so would, of necessity, be very general resulting in simplistic standards and methods which would have to be applied across the board rather than allowing the professional the flexibility to act appropriate to the situation at hand.

It would be detrimental to the health, safety and welfare of the public for the State Board of Technical Registration to enact rules and regulations which would limit the ability of the registered professional to exercise his good judgment in carrying out the duties of his profession.

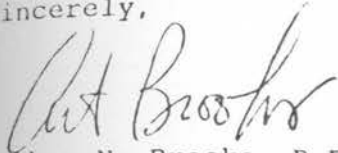
425 South Mill Avenue
Suite 201
Tempe, Arizona 85281
(602) 968-7676

page 2
May 18, 1983

15893

The Board of Directors of both ASPE and ACEA have unanimously adopted resolutions calling for the elimination of Appendix F in its entirety from the Proposed Rules and Regulations. I urge you to do so at this time.

Sincerely,



Arthur N. Brooks, P.E.
Governmental Affairs Chairman, ASPE
Governmental Affairs Chairman, ACEA

May 23, 1983

ANB/sfh

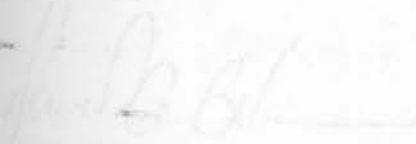
Dear Mr. Ross,

We understand that the Arizona State Board of Technical Registration will hold a rules hearing Tuesday, May 24th. We would like you to submit this letter to the board in lieu of personal testimony.

It has been brought to our attention by members of our Association that the State Board of Technical Registration is considering the establishment of more stringent boundary survey requirements referred to as appendix F in the current rules under consideration. We have been informed that if these new rules are adopted, the cost of our boundary surveys could increase as much as 300% depending on the project size. We question whether there is a need for such high levels of accuracy. We have been unable to determine any problems in our industry that would require any alteration of existing surveying rules.

Having not been able to uncover any problems relating to accuracy of boundary surveys and not wanting to increase the cost of the boundary surveying without justification, it is our recommendation that the board not increase the level of current boundary survey standards.

Sincerely,



Deputy Director





H
B
A

HOME BUILDERS ASSOCIATION
OF
CENTRAL ARIZONA

4621 NORTH 16th STREET, SUITE A 118
PHOENIX, ARIZONA 85016

TELEPHONE 274 6545

155031

B
A



May 23, 1983

Ms. Judi E. Ross
Executive Director
State of Arizona
Board of Technical Registration
1645 W. Jefferson, Suite 315
Phoenix, AZ. 85007

Dear Ms. Ross,

We understand that the Arizona State Board of Technical Registration will hold a rules hearing Tuesday, May 24th. We would like you to submit this letter to the board in lieu of personal testimony.

It has been brought to our attention by members of our Association that the State Board of Technical Registration is considering the establishment of more stringent boundary survey requirements referred to as appendix F in the current rules under consideration. We have been informed that if these new rules are adopted, the cost of our boundary surveys could increase as much as 300% depending on the project size. We question whether there is a need for such high levels of accuracy. We have been unable to determine any problems in our industry that would require any alteration of existing surveying rules.

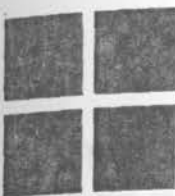
Having not been able to uncover any problems relating to accuracy of boundary surveys and not wanting to increase the cost of the boundary surveying without justification, it is our recommendation that the board not increase the level of current boundary survey standards.

Sincerely,

David A. Bixler
Deputy Director

DAB/tlt

15895



EDWARD NELSON FAIA
JAMES A WARES AIA
WILLIAM H COOK AIA
JOHN MORRISON AIA
ROBERT TINDELL AIA
THOMAS EBEJER AIA

| | |
|-------------------|----|
| FILE NO. | |
| CELLA BARR ASSOC. | |
| RCVD. MAY 20 1983 | |
| FROM | TO |
| | |
| | |
| | |

May 18, 1983

Mr. Paul Cella
Cella Barr Associates
2075 N. 6th Avenue
Tucson, Arizona

Dear Paul:

I am concerned about a regulation (paragraph R4-30-304) dealing with the method of stamping and signing construction documents that is presently being considered for adoption. With current methods of systems drafting, I feel that it is not only most difficult to manage but it also does not accomplish the desired end.

I suggest that the registrants stamp be applied to the masters dedicated to a particular set of construction documents in a manner that produces a quality and legible image. And, that the "final" overlay for each composite sheet on which the most critical information is carried be signed and dated, thereby validating the stamp.

When used properly, this method will not only comply with the intent of the rules and regulations, but also provide a good image which is clearly legible on printed documents.

Sincerely yours,

CNWC ARCHITECTS

Robert Tindell

/rh

cc: Hector Durand
John Riggs
Stewart R. Palmer

RECEIVED

5896

MAY 20 1983

Arizona Society American Institute of Architects



M E M O R A N D U M

TO: John Riggs, AIA, State Board of Technical Registration
 Jimmie Nunn, AIA, State Board of Technical Registration
 Chairman
 Judi Ross, Executive Director State Board Tech. Reg.
 Jack DeBartolo, Jr. FAIA, Arizona Society President
 Tom Zimmerman, FAIA, Legislative Representative
 File

RE: Resolution Position on Rules/Regulations State Tech Board

DATE: 16 May 1983

FROM: Eleanor Smith, Executive Director Arizona Society

Attached is the resolution that was presented to the Arizona Society of Architects Council of Delegates at the May 14, 1983, meeting.

This represents the position of AS/AIA. If there are any further questions, please feel free to call me. (Even though I will be in New Orleans the week of the 23rd, leave a message with Linda Comrie.

Since 1980 when the legislature completed its first sunset review and continued the State of Arizona Board of Technical Registration the Board has been formulating the rules and regulations mandated by the legislature to assure that the Board was reasonably and fairly protecting the public interest when regulating the professions of architecture, assaying, engineering, geology, landscape architecture, and land surveying.

The Board has worked closely with the Attorney General's Office in preparation of these proposed rules. The professions have had several opportunities, collectively and individually, to provide input, review and comment during what has become a very protracted process.

Although there may be within the profession of architecture in Arizona disagreement over specific language, scope, enforceability or even the need for licensure and regulation the concensus of Arizona's architects is:

Resolved: In order to protect the public interest through the licensing of architects and regulation of the practice of architecture the Arizona Society of the American Institute of Architects urges adoption and implementation of the rules and regulations proposed for consideration at the Public Hearing convened by the Board of Technical Registration on May 24, 1983. While recognizing the legitimate concerns of those who might criticize the document in general, and specific issues in particular, it is our position that the process has been sufficiently open and protracted to assure fair and equitable treatment of the regulated professions as well as to protect the public health, safety, and welfare. Further delay to reconsider or reamend a document developed openly over a three year period is not necessary. Immediate adoption, implementation, and enforcement of the new rules of the Board of Technical Registration is in the best interests of both the public and the regulated professions.

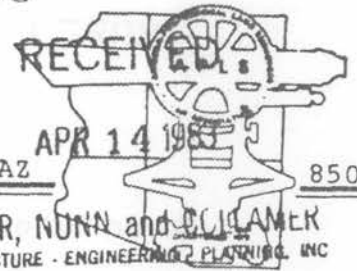
of practice and in fact is strongly about
copies of formal standards. However, the present Appendix "F"
measures actions not always relevant and distance measurements to
an accuracy in excess of practical application.
Should the Board of Technical Registration "stay its course" and
adopt the objectionable standards A.P.L.S. will be compelled to
adopt them. Should Appendix "F" as presently written, be adopted
before or after A.P.L.S. minimum standards are made a part of the
By-laws, there will be a set of "legal" standards and
other set of industry standards that conflict. This circumstance

15898

Munn

ARIZONA PROFESSIONAL LAND SURVEYORS

Jeffrey L. Andrews, Pres. P.O.Box 35161, Phoenix, AZ



85069

HAVER, NUNN and O'CONNOR
ARCHITECTURE - ENGINEERING - PLANNING, INC

April 11, 1983

Arizona State Board of Technical Registration
1384 W. Jefferson
Phoenix, AZ 85007

RE: Rules - Appendix "F"

Dear Board Members:

The Arizona Professional Land Surveyors Standards Committee, in simultaneous meetings in Phoenix and Tucson, has reviewed the present Appendix "F" to the proposed Board of Technical Registration Rules and found it to be unacceptable.

The Arizona Professional Land Surveyors Board of Directors voted on April 2, 1983 to adopt the following resolutions:

The Appendix "F" portion of rules proposed by the Arizona State Board of Technical Registration is unacceptable to A.P.L.S. as it is presently written.

The A.P.L.S. Standards Committee is instructed to revise or refine the original recommendation to the Board of Technical Registration (unedited) in cooperation with the A.S.E.A. (an affected organization that has expressed concerns) and present its recommendations to the A.P.L.S. Board of Directors for formal adoption on May 14, 1983.

It is the intent of A.P.L.S. to promulgate and adopt minimum standards of practice initially and recommended standards finally for its membership. It should be understood that A.P.L.S. has no objection to standards of practice and in fact feels strongly about adoption of formal standards. However, the present Appendix "F" requires actions not always relevant and distance measurements to an accuracy in excess of practical application.

Should the Board of Technical Registration "Stay its course" and adopt the objectionable standards A.P.L.S. will be compelled to oppose them. Should Appendix "F" as presently written, be adopted before or after A.P.L.S. minimum standards are made a part of the Association By-laws, there will be a set of "Legal" standards and another set of industry standards that conflict. This circumstance

would be most unfortunate and resultant litigation would be of no service to the State or the profession.

I urge you, as Board Members, to cooperate with the efforts of A.P.L.S. and support the society recommendations. Who is better qualified to promulgate minimum standards of practice for any profession if not the practitioner?

Sincerely,

Jeffrey L. Andrews

Jeffrey L. Andrews, R.L.S.
President - A.P.L.S.

JLA:mcw

- cc: Board of Technical Registration members
- A. P. L. S. Board members
- A. C. E. A.

| | |
|-------------------------------|--|
| <i>1900 W. Buckline Rd.</i> | <i>California State Board of Registration for Professional Engineers</i> |
| <i>S. McGowan Dr.</i> | <i>California</i> |
| <i>515 Tamalpais Dr.</i> | <i>Engineering Council</i> |
| <i>110 W. Sanborn St.</i> | <i>A.P.L.S.</i> |
| <i>160 W. Alameda St.</i> | <i>ASCE</i> |
| <i>724. Barrett Blvd, Al.</i> | <i>APLS</i> |
| <i>425 S. Hill, Tempe</i> | <i>ACEA / ASCE</i> |
| <i>ACEA 2120 N. 1st St.</i> | <i>ACEA / ASCE</i> |
| <i>1925 E. Palm Ave Rd</i> | <i>ASCE</i> |
| <i>1732 E. Glendale Ave</i> | <i>SILVA</i> |
| <i>6747 N. 5th Ave</i> | <i>APLS</i> |
| <i>425 S. Hill Ave</i> | <i>APLS</i> |
| <i>6401 N. 166th Ave</i> | <i>APLS</i> |

SIGN-IN SHEET

(If you wish to speak, please sign "ORAL COMMENTS" sheet also.)

| NAME | ADDRESS | ORGANIZATION |
|--------------------|--|---|
| Paul J. Lynn | 13802 Ten Tone Dr. Scottsdale, AZ | |
| John R. Cook | 1947 W. Baseline Rd. #2 | Culpeper Soc Land Surveying IMMEDIATE PAST PRESIDENT |
| KOLF OLAF ISLANDIA | 2226 S. McCLINTOCK DR. TEMPE, AZ. | CA/VA |
| Richard W. Rush | 337 W. Pasadena ² 1/2 Phoenix | Proc. Inst. Prof. Geol. |
| Bill Sawyer | 515 Tam O'Shanter | Engineering Assoc. |
| E. J. FISH | 3416 W. CAROL | APLS |
| Jim Anderson | 3945 W. Carol | ASCE |
| Curtis Drew | 110 W. Camelback #202 PHX 85013 | APLS |
| J.A. WISE, JR | 1670 W. ALAMODA DR TEMPE AZ 85282 | ACEA |
| Oscar T. Lyon, Jr | 712 W. Encanto Blvd, Phx. | ASPE |
| ART BROOKS | 425 #5 Mill, Tempe | ACEA / ASCE |
| Franci Rizzo | ACEA 3625 1/2 16 St. Phx | ACEA / ASPE |
| PAUL G SCOTT | 1908 E BETH HUN RD | ASPE |
| ROBERT G. NIEBUR | 1732 E. BETHANY HUN RD | SELF |
| Jeff Andrews | 6747 N BIR CYN | APLS |
| Sam Hersey | 425 S Mill Ave | APLS |
| Fred L Baker | 6401 N 146 th Ave | APLS |

M I N U T E S

15901

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

OPEN SESSION

JUNE 10, 1983

I. CALL TO ORDER

The regular meeting of the State Board of Technical Registration held in Room 126 of the Occupational Licensing Building, 1645 W. Jefferson, Phoenix, Arizona, was called to order by Chairman Jimmie R. Nunn at 9:10 a.m.

PRESENT: Jimmie Nunn, Chairman
John B. Riggs, Vice-chairman
Silas C. Brown, Secretary
Hector C. Durand, Member
Ronald J. Mlnarik, Member
Robin A. Morris, Member
Stewart R. Palmer, Member

ABSENT: Paul Cella, Member
Charles E. O'Bannon, Member

GUESTS: Elmer L. Culp
Deepak H. Aggarwal

John A. Baadr
Charles Dixon

Those present constituted a quorum.

II. EXECUTIVE SESSION

It was moved by Mr. Riggs and seconded by Mr. Durand that the Board convene in Executive Session. The Board reconvened in Open Session at 10:35 a.m.

III. ENFORCEMENT

A. Case Action

1. C79-85 BTR vs. James Craft, P.E. (Civil) #6859

It was moved by Mr. Durand and seconded by Mr. Palmer to dismiss the case.
MOTION CARRIED

2. C80-100 BTR vs. William Ramsey, P.E. (Civil) #6312

It was moved by Mr. Durand and seconded by Mr. Palmer that the Chairman sign the consent agreement. MOTION CARRIED

3. C81-12 BTR vs. Chris Doran, Architect #11002

It was moved by Mr. Durand and seconded by Mr. Riggs that a Consent Order should be negotiated with these terms:

1. A three years probation be imposed,
2. plus a \$500 fine, or
3. A one year suspension within the three years probation.

The motion was amended to read one year suspension and then subsequent to that a two-year probation period with peer review included within the two-year probation period. It was moved by Mr. Riggs to amend the motion to a three year probation with peer review and strike the suspension of one year. AMENDMENT accepted. MOTION CARRIED.

4. C81-18 BTR vs. Marvin Larson, P.E. (Civil) #2009
It was moved by Mr. Durand and seconded by Mr. Brown to dismiss the case.
MOTION CARRIED.
5. C81-30 BTR vs. Dwight Lind, P.E. (Civil) #9367
It was moved by Mr. Durand and seconded by Mr. Riggs to dismiss the case.
MOTION CARRIED.
6. C81-44, 46, 50, 52 BTR vs. Robert Brock, P.E. (Civil) #12543
It was moved by Mr. Riggs and seconded by Mr. Palmer that the Chairman be authorized to sign the Consent Order, accept the \$500 civil penalty and the acceptance of a Statement of Procedures of Review and Certification as agreed upon. MOTION CARRIED.
10. C81-63 BTR vs. Edward Nagle, Architect #10435
It was moved by Mr. Riggs and seconded by Mr. Durand that a Letter of Censor be sent. MOTION CARRIED.
11. C82-003 BTR vs. Don Woods, Architect #10634
It was moved by Mr. Riggs and seconded by Mr. Brown that the case be dismissed. MOTION CARRIED.
12. C82-004 BTR vs. Dale Melville, P.E. (Civil) #10123
It was moved by Mr. Riggs and seconded by Mr. Durand that the case be returned to the Advisory Committee. MOTION CARRIED.
13. C82-006 BTR vs. Ruben Romero
It was moved by Mr. Riggs and seconded by Mr. Durand that the case be closed. Mr. Palmer declared a conflict of interest. Mr. Durand moved to amend the motion that this action by the Board is being taken on legal advice. MOTION CARRIED.
14. C82-007 BTR vs. Bill Simmons
It was stated by Mr. Riggs that this requires no action. It is a report to the Board that a Notice of Violation was sent.
15. C82-008 BTR vs. Bill Taylor
It was moved by Mr. Riggs and seconded by Mr. Durand that action be deferred on that case. MOTION CARRIED.
16. C82-009 BTR vs. Donald Bratten
It was stated by Mr. Riggs that this requires no action. It is a report to the Board that a Notice of Violation was sent.

17. C82-010 BTR vs. Gayland Taylor

It was stated by Mr. Riggs that this requires no action. It is a report to the Board that a Notice of Violation was sent.

B. Enforcement Activity Report

Mr. Dalrymple reported that the month of May started with 88 miscellaneous activity files pending. We opened 9 miscellaneous activities and no files were closed during that period for a total of 97 cases pending at the end of May. We had 39 complaints pending at the beginning of the month and we received no new ones, none were closed and we had 39 complaints at the end of May.

C. Aiding and Abetting

It was recommended by Mr. Palmer that we continue this discussion and receive something in writing from staff on the scope of what they do and how they do it and that it be reviewed in more detail. Ms. Ross stated that in the rules being sent to the Attorney General's office we do have a definition provided that will be able to help us.

IV. APPEALS

Dixon, Charles W. No. 73-84 - Mr. Palmer declared a conflict of interest. Mr. John Baadr, a lawyer for Mr. Dixon, feels that the graders have not fairly graded Mr. Dixon. He is requesting that the exam be reviewed in more detail. It was moved by Mr. Durand and seconded by Ms. Morris to table this appeal until the two architectural members of the Board have had time to review the exam in more detail with Mr. Dixon and his lawyer. MOTION CARRIED. It was moved by Ms. Morris and seconded by Mr. Riggs that the plans be held until Mr. Dixon and his attorney have a chance to review these plans. MOTION CARRIED.

Aggarval, Deepak H. - Mr. Aggarval stated that he was not given consideration for all his experience.

It was moved by Mr. Durand and seconded by Mr. Palmer that Mr. Aggarval's request for an appeal be affirmed, subject to confirmation with Dr. O'Bannon that all requirements are met and that Dr. O'Bannon agrees that we should grant him registration. Ms. Morris moved to amend the standing motion that Mr. Aggarval be granted registration subject to verification with Dr. O'Bannon that he meets all of the requirements. MOTION CARRIED FOR THE AMENDED MOTION. MOTION CARRIED, no Board action is necessary and staff will issue the registration.

V. EVALUATION COMMITTEES, REPORTS AND ADOPTION OF REPORTS

It was moved by Mr. Durand and seconded by Mr. Riggs that the applicants listed on pages 5906-5908, having satisfied the Committees that they are fully qualified to receive registration, are hereby recommended for registration with the exception of Barry Berkus, whose application will be tabled at this time. MOTION CARRIED.

It was moved by Mr. Durand and seconded by Mr. Brown that the names listed on page 5909 of these minutes, Ahuero through Urias be granted registration with numbers as shown. MOTION CARRIED.

It was moved by Mr. Durand and seconded by Mr. Riggs that the names listed on page 5922 of these minutes be granted Architect-in-training registration: Abel through Wretlind. MOTION CARRIED.

It was moved by Mr. Durand and seconded by Mr. Riggs that the applicants listed on pages 5923 of these minutes, Anderson through Francis be held for examination. MOTION CARRIED.

It was moved by Mr. Durand and seconded by Mr. Brown that the applicants listed on pages 5913 of these minutes be denied for lack of satisfactory experience: Abel through Jameson. MOTION CARRIED.

It was moved by Mr. Durand and seconded by Mr. Riggs that the applicants listed on page 5913 of these minutes be denied with neither prejudice nor refund: Morriss through Porter. MOTION CARRIED.

It was moved by Mr. Durand and seconded by Mr. Riggs that the applicants listed on pages 5913-5916 of these minutes be denied for failure to complete the requirements of the Board within a reasonable length of time: Kirsch through Jurko. MOTION CARRIED.

It was moved by Mr. Riggs and seconded by Mr. Durand that the applicants listed on pages 5916-5921 of these minutes be granted registration with numbers listed but with the exception of Barry Berkus: Ahuero through Weatherby. MOTION CARRIED.

It was moved by Mr. Riggs and seconded by Mr. Palmer that the applicants listed on pages 5922-5923 of these minutes be granted AIT and EIT registration with numbers so designated: Abel through Williams. MOTION CARRIED.

It was moved by Mr. Riggs and seconded by Mr. Palmer to grant EIT registration to the applicants listed on page 5923 of these minutes; Aday through Williams with appropriate numbers. MOTION CARRIED.

It was moved by Mr. Durand and seconded by Mr. Palmer to add Mr. Deepak Aggaval's name to the grant list with the next appropriate number, subject to confirmation of experience from Dr. O'Bannon. MOTION CARRIED.

It was moved by Mr. Riggs and seconded by Ms. Morris that the assayers listed on page 5921 of these minutes, Mr. Ingram and Mr. Weatherby be certified and granted registration with the appropriate numbers. MOTION CARRIED.

VIII. BUDGET COMMITTEE REPORT

A. 1982-83 Budget Status

Ms. Ross discussed the budget; the expected balance at the end of the fiscal year and the reasons for the final figures.

B. 1983-84 Budget

Ms. Ross informed the Board that we are still waiting word from the JLBC. We are attempting to set up budget controls. We did receive approximately a 27% increase in our budget for this year. Most of that is committed to one position - a typist III or equivalent position.

C. 1984-85 Budget Process

Ms. Ross stated that we are starting the 84-85 process now. She requested that the Board advise her of any specific requests.

Mr. Palmer questioned the NCEE regional meeting and wanted to know if we could appoint somebody to attend it. Ms. Ross stated that we would have to wait until the July Board meeting as it is not on this month's agenda and we would be

June 10, 1983
Regular Board Meeting

calling a special meeting to verify the engineering scores.

LEGISLATIVE COMMITTEE REPORT

IX.

- A. Effective date and implementation, SB 1180 - Ms. Ross stated that we would be running into some problems in implementing this, but it should be effective after July 26.
- B. 1984 Legislative Session - Ms. Morris stated that Mr. John Rose was very impressed by the work done by Ms. Ross and Mr. Sheet at the meeting.

EXECUTIVE DIRECTOR'S REPORT

X.

Office Operations, 1983-84 - Ms. Ross reported on two budget items:

- 1. The acquisition of a new position - a typing clerk,
- 2. automating our files - she stated that we are looking at the purchase of a shared mini-computer with terminals in the office.

She also reported that the impact on the staff after the adoption of the rules will be significant with the amount of work load increasing.

XI.

PUBLIC COMMENT

Mr. Elmer Culp - discussed Appendix F of the proposed rules. He submitted some copies of minimum standards of public surveys of 1979 used by the state land department.

Mr. Durand stated that this was most likely the last Board meeting he would be attending, but that he feels a great percentage of the tasks have been completed particularly enforcement and revision of the code. He expressed a great deal of pride in being the first land surveyor to serve on the Board. He expressed an availability to serve if the Board needed him and wished the Board a successful future.

XII.

NEW BUSINESS

Future Board and Committee Meetings

Ms. Ross stated that we would have to call a Board meeting around July 14. It would be before July 26. The September meeting will be September 9, in Flagstaff.

XIII.

ADJOURNMENT

It was moved by Mr. Palmer and seconded by Mr. Riggs to adjourn. MOTION CARRIED.

TO: Board of Technical Registration

FROM: The Phoenix and Tucson Evaluation Committees
 Chairmen, Brown, Palmer
 Members, Cella, Durand, Riggs, Mlnarik, Morris, O'Bannon, and Nunn

SUBJECT: Evaluation of Applicants, April 28-29, 1983, and May 20, 1983

The Evaluation Committees reviewed the following applicants and make to the Board the recommendations shown regarding registration in Arizona.

1. The following applicants, having satisfied the Committees that they are fully qualified to receive registration in Arizona under A.R.S. 32-122.01 and A.R.S. 32-126, are hereby recommended for registration:

ARCHITECTS

| | |
|-----------------------------|-------------------|
| Anderson, Carroll A. | 83-092 |
| Anderson, Douglas J. | 83-329 |
| Andrews, LeRoy Miles | 83-148 |
| Arancio, Joseph F. | 83-394 |
| Berkus, Barry A. | 83-272 |
| Berry, Ormond R. | 83-186 |
| Bowen, Herbert E. | 83-228 |
| Bradley, Jack R., Jr. | 83-267 |
| Brooks, Rodger A. | 83-330 |
| Cady, Tommy L. | 83-254 |
| Christensen, Timothy C. | 83-119 |
| Clafien, George L., Jr. | 83-341 |
| Clark, James A. | 82-1002 |
| Cooperman, James | 83-266 |
| Danielski, Francis | 83-395 |
| Dedeke, Gary R. | 83-233 |
| Draeger, George L. | 83-207 |
| Fernandez, Harry J. | 83-245 |
| Frangella, Patrick J. | 83-005 |
| Godsey, Heber C. | 82-970 |
| Goldhammer, Lewis D. | 83-396 |
| Haney, William T. | 83-140 |
| Hixon, Sherrod B. | 83-336 |
| Holmes, Don R. | 83-335 |
| Kendrick, Gregory | 83-246 |
| Lieder, Bernard B. | 83-328 |
| Luscombe, John H. | 83-099 |
| McBride, Peter R. | 83-331 |
| Mahlman, David S. | 83-284 |
| Mitchell, James R. | 83-237 |
| Morton, James D. | 83-139 |
| Novack, John M., Jr. | 83-138 |

ARCHITECTS

| | |
|---------------------------|---------|
| Powell, Raymond D. | 83-332 |
| Predock, Antoine S. | 83-143 |
| Ramm, Charles A. | 83-102 |
| Ray, Robert A. | 83-008 |
| Richardson, Timothy L. | 83-327 |
| Rippon, C. Spencer | 83-137 |
| Roberts, Dorothy E. | 82-297 |
| Robbins, Robert J. | 83-085 |
| Rusk, Dennis E. | 83-036 |
| Sample, Jack S. | 83-059 |
| Schrader, William D., Jr. | 83-234 |
| Sellers, David G. | 83-261 |
| Sharp, Dennis J. | 83-292 |
| Smith, Fleming W., Jr. | 83-142 |
| Steinmann, John C. | 83-141 |
| Tanza, David J. | 82-1001 |
| Thompson, Thomas M. | 82-893 |
| Turner, Alan E. | 83-114 |
| Wallace, William R. | 82-539 |
| White, Donald Z. | 83-333 |
| Wilson, David M. | 82-963 |
| Wuest, Richard A. | 83-340 |
| Yen, Richard S. | 83-259 |

LANDSCAPE ARCHITECTS

| | |
|---------------------|--------|
| Backhaus, Mark D. | 83-135 |
| Goltry, Stephen W. | 83-275 |
| Mitchell, Robert A. | 83-017 |
| Walker, Theodore D. | 82-869 |

CIVIL ENGINEERS

| | |
|-----------------------|--------|
| Abboud, Edmond S. | 83-200 |
| Barg, William M. | 83-231 |
| Bentley, William C. | 82-367 |
| Berg, Ryan R. | 83-321 |
| Bowen, Larry F. | 83-139 |
| Braccia, Mark R. | 83-121 |
| Bryant, Charles H. | 83-173 |
| Chou, Shih-wen | 83-144 |
| Dodge, Clinton F. | 83-204 |
| Eckert, Eddie J. | 82-967 |
| English, Wallace A. | 83-141 |
| Feiro, James D. | 83-133 |
| Fitzpatrick, James L. | 82-922 |
| Flak, Mark A. | 83-291 |
| Howell, Harold E. | 83-197 |
| Kersich, A.T. | 83-355 |
| Kreitzberg, Fred C. | 83-152 |
| LaBar, John A. | 83-177 |
| Lane, Terrance A. | 82-955 |
| Larson, James A. | 83-114 |
| Litzenberg, Robert L. | 83-310 |
| Meyer, William J. | 83-068 |
| Mouw, Kenneth W. | 83-167 |
| North, James C. | 83-151 |
| Owen, William F. | 83-230 |
| Peterman, Patrick E. | 83-134 |
| Plumb, John | 82-934 |
| Pon, Charles | 82-923 |
| Roberts, Harold R. | 83-150 |
| Rogers, Paul I., Jr. | 83-021 |
| Saag, James B. | 82-767 |
| Siemak, Robert C. | 82-833 |
| Smith, Stanley A. | 83-161 |
| Turner, Paul W. | 83-066 |
| Upton, William K. | 83-163 |
| Van Sande, Gregory K. | 83-116 |
| Wainscott, Lotcher A. | 82-638 |
| Ward, Norman C. | 82-593 |
| Webb, Dean L. | 82-991 |
| White, Cindy D. C. | 83-169 |
| Wurtz, John | 82-958 |

ELECTRICAL ENGINEERS

| | |
|-----------------------|--------|
| Bennett, Keith L. | 83-255 |
| Coulter, John C. | 83-189 |
| Graupmann, Rodney W. | 83-276 |
| Handzel, James M. | 79-677 |
| Mehlig, Kenneth L. | 83-185 |
| Panicker, Balachandra | 83-124 |
| Peel, Harvey A. | 83-010 |
| Poe, Lewis H., II | 82-903 |
| Stalzer, Theodore R. | 82-405 |
| Steinert, Thomas M. | 82-747 |
| Stewart, John E. | 83-050 |
| Tulchinsky, Samuel | 82-589 |
| Westrom, Frederick N. | 83-203 |

INDUSTRIAL ENGINEER

| | |
|-------------------|--------|
| Murphree, William | 82-356 |
|-------------------|--------|

MECHANICAL ENGINEERS

| | |
|------------------------|--------|
| Andrews, Robert A. | 83-145 |
| Averette, Henry S. | 82-698 |
| Bailey, Lewis G. | 83-301 |
| Baker, Timothy D. | 83-027 |
| Champion, Noel M. | 83-053 |
| DiIorio, Ermenegildo | 82-848 |
| Engler, Martin R., Jr. | 83-236 |
| Limaye, Jayant S. | 82-437 |
| Lough, Daniel R. | 83-190 |
| McGinnis, Larry R. | 82-910 |
| Miller, Kenneth E. | 83-243 |
| Pangrac, Stanley D. | 83-191 |
| Perea, Emilio | 82-156 |
| Phillips, Lyle E. | 83-083 |
| Riopelle, Earl F. | 83-222 |
| Ryan, Ronald E. | 83-303 |
| Shah, Raj P. | 83-220 |
| Walker, Terry L. | 82-973 |

MINING ENGINEER

| | |
|-------------------------|--------|
| Koskiniemi, Benjamin C. | 83-350 |
|-------------------------|--------|

NUCLEAR ENGINEER

| | |
|--------------------|--------|
| Miller, Kenneth E. | 83-242 |
|--------------------|--------|

STRUCTURAL ENGINEERS

| | |
|-------------------------|--------|
| Bengel, Marian J. | 83-035 |
| Cardillo, Anthony | 83-315 |
| Chou, Chin P. | 83-174 |
| Freedman, Arthur R. | 83-194 |
| Golovin, Maury | 83-217 |
| Harrell, Thomas B., Jr. | 83-195 |
| Hauge, Carroll K. | 83-152 |
| Hirsch, George W. | 83-218 |
| Miller, Robert D. | 82-561 |
| Rudner, Stephen M. | 83-067 |
| Shah, Krishna | 83-019 |
| Starling, Ronald A. | 83-118 |
| Summers, Curtis D. | 83-27 |
| Tucker, Jerry W. | 83-169 |
| Walker, Robert A. | 83-100 |
| Wan, Lee | 83-313 |
| Woodworth, Arthur J. | 83-187 |

LAND SURVEYORS

| | |
|---------------------------|--------|
| Clarke, William G. | 83-226 |
| Edrial, Aproniano R., Sr. | 82-880 |
| Green, William L. | 82-990 |
| Heimbuck, Michael D. | 83-206 |
| Hughes, Gerald D. | 83-091 |
| Latvala, Warren P. | 83-210 |
| Parrish, John S. | 83-257 |
| Pokatello, Paul G. | 82-449 |
| Scott, James M., Jr. | 82-001 |
| Shambeck, George D. | 83-146 |
| Stuercke, James E. | 82-882 |

GEOLOGIST

| | |
|--------------------|--------|
| Curtis, Herbert S. | 82-982 |
| Muir, Stephen G. | 83-142 |

ASSAYERS

| | |
|-------------------|--------|
| Ingram, Robert E. | 82-477 |
| Weatherby, Jim R. | 82-360 |

| | |
|------------------------|-------|
| Peschler, Dante H. | 81-01 |
| Raid, Carl | 81-32 |
| Scaglione, Peter M. | 89-03 |
| Simon, John F. | 81-35 |
| Surgener, James S. | 80-39 |
| Taylor, Mark E. | 81-55 |
| Taylor, William J. | 79-38 |
| Urvikvitz, Kent J. | 79-25 |
| Vanderwallen, Kevin A. | 82-12 |
| Vandromet, William J. | 81-13 |
| Wilkes, Roger | 82-22 |
| Wills, Dennis W. | 78-82 |
| Wood, Stephen L. | 82-05 |
| Wright, Michael | 81-23 |

2.A. Due to the implementation of the new architectural registration examination, the following applications were reviewed and given transition credit, where applicable, for parts previously passed, and are recommended for professional registration.

| | |
|--------------------|--------|
| Ahuero, Robert L. | 81-624 |
| Brendecke, Roger | 82-311 |
| Brosius, David A. | 82-801 |
| Carter, William D. | 82-745 |
| Graham, Bradley | 81-654 |
| Kopecek, Josef R. | 71-318 |
| Kovacs, Laszlo | 78-431 |
| Lewis, Robert A. | 76-116 |
| Lucero, Edward H. | 74-538 |
| Manross, John C. | 81-647 |
| Meyer, Gary W. | 81-867 |
| Montello, James R. | 81-682 |
| Urias, Charles G. | 82-844 |

2.B. Due to the implementation of the new architectural registration examination, the following applications were reviewed and given transition credit, where applicable, for parts previously passed, and are recommended for architect-in-training registration.

| | |
|-------------------------|--------|
| Abel, Mark E. | 82-57 |
| Allyn, Judson B. | 81-75 |
| Attaya, Charles B. | 81-90 |
| Battles, Scott L. | 82-73 |
| Beck, Jean | 81-52 |
| Black, John A. | 82-37 |
| Brissette, Ronald G. | 82-11 |
| Canter, Steven B. | 82-07 |
| Capelli, Brian | 82-20 |
| Cherner, Benjamin B. | 82-71 |
| Cox, Val M. | 77-14 |
| Elstermeyer, Richard C. | 81-05 |
| Ferrer, Marc H. | 81-25 |
| Floyd, Anthony C. | 81-11 |
| Friedberg, David G. | 81-39 |
| Giagni, Edward B. | 82-18 |
| Helms, Vicki L. | 82-29 |
| Johnson, Dudley J. | 81-10 |
| Lichtenberger, Steven | 82-48 |
| Massengill, Robert | 78-41 |
| Mauldin, Robert | 79-35 |
| Michalowski, John | 82-61 |
| Nichol, William | 80-029 |
| Osterman, Gary | 82-47 |
| Patry, Daniel P. | 79-74 |
| Pignetti, Joseph M. | 82-43 |
| Piskac, Joseph C. | 80-032 |

| | |
|-----------------------|-------|
| Poehler, Daniel H. | 81-01 |
| Rald, Carl | 81-92 |
| Scaglione, Peter M. | 80-03 |
| Simon, John P. | 81-35 |
| Surgener, James S. | 80-39 |
| Taylor, Mark C. | 81-55 |
| Taylor, William J. | 79-38 |
| Uerkvitz, Kent J. | 78-25 |
| Vandermolen, Kevin A. | 82-12 |
| Vandrovec, William J. | 81-13 |
| Wilkes, Roger | 82-22 |
| Willis, Dennis W. | 78-22 |
| Wood, Stephen L. | 82-05 |
| Wretlind, Michael | 81-20 |

3. The following applicants were evaluated by the evaluation committees and it is recommended to the Board that these individuals be held for examinations as indicated:

ARCHITECTS

| | | |
|-------------------------|--------|-----------------------------|
| Anderson, Gladstone | 83-253 | Divisions A,B,C,D,E,F,G,H,I |
| Barclay, Josh | 83-155 | Divisions A,B,C,D,E,F,G,H,I |
| Barnes, Steven E. | 83-093 | Divisions A,B,C,I |
| Busby, Alan D. | 83-192 | Divisions A,B,C,D,E,F,G,H,I |
| Castro, Jesus G. | 83-326 | Divisions A,G,H,I |
| Cherner, Benjamin B. | 83-277 | Divisions A,B,C,I |
| Cipriano, Richard C. | 83-263 | Divisions A,D,E,F,I |
| Comella, Joseph O. | 83-087 | Divisions A & I |
| Eslamieh, Jason M. | 83-356 | Divisions A,B,C,D,E,F,G,H,I |
| Ferrer, Marc H. | 83-281 | Divisions A,B,C,I |
| Fielder, Thomas E. | 83-051 | Divisions B & C |
| Floyd Anthony C. | 83-265 | Divisions A,B,C,I |
| Gastelum, Alfonso | 83-319 | Divisions A,B,C,D,E,F,G,H,I |
| Gates, Mario A. | 83-239 | Divisions A,B,C,D,E,F,G,H,I |
| Hann, James K. | 82-581 | Divisions A & I |
| Hines, Michael L. | 82-830 | Divisions A,B,C,D,E,F,G,H,I |
| Hitchens, Gregory | 83-306 | Divisions A & I |
| Holland, Paul D. | 82-812 | Divisions A,B,C,D,E,F,G,H,I |
| LeMahn, Lon R. | 83-171 | Divisions A,B,C,D,E,F,G,H,I |
| Linder, Leonard G. | 83-247 | Divisions A,B,C,D,E,F,G,H,I |
| McCall, Jeffrey N. | 83-111 | Divisions A & I |
| Megis, James B., III | 83-269 | Divisions A,B,C,D,E,F,G,H,I |
| Mettenbrink, Timothy A. | 83-227 | Divisions A,B,C,I |
| Miller, Leonard P. | 83-162 | Divisions A,B,C,D,E,F,G,H,I |
| O'Connor, Paul M. | 83-198 | Divisions A & I |
| Otterbein, Dawn G. | 83-256 | Divisions A,B,C,I |
| Pignetti, Joseph M. | 83-307 | Divisions A,B,C,I |
| Poehler, Daniel H. | 82-804 | Divisions A,B,C,I |
| Rios, Benjamin | 83-305 | Divisions A,G,I |
| Sather, John E. | 82-737 | Divisions A & I |

ARCHITECTS

| | | |
|-------------------------|--------|-----------------------------|
| Shaw, John P. | 83-312 | Divisions B & C |
| Snedegar, James | 82-713 | Divisions A & I |
| Staehle, Robert A. | 83-258 | Divisions A & I |
| Taylor, Mark | 83-358 | Divisions A,B,C,I |
| Thacker, Boyd H. | 83-221 | Divisions A & I |
| Tilton, Webster | 83-373 | Divisions A & I |
| Tunell, Carol A. | 83-223 | Divisions A,B,C,D,E,F,G,H,I |
| Vehr, Paul A., III | 82-784 | Divisions A & I |
| Watson, Howard R. | 82-824 | Divisions A,B,C,D,E,F,G,H,I |
| Wooster, David L. | 83-043 | Divisions A,B,C,D,E,F,G,H,I |
| Worrall, Joseph H., III | 83-287 | Divisions A & I |

LANDSCAPE ARCHITECTS

| | | |
|-----------------------|--------|---------------|
| Bedwell, James S. | 82-217 | Parts B & D |
| Chinnock, John C. | 83-232 | Parts B & D |
| Conte, John P. | 82-447 | Parts A,B,C,D |
| Ensign, Yvette E. | 83-159 | Parts B & D |
| Flanagan, Gregory K. | 83-224 | Parts B,C,D |
| Miller, James D. | 82-237 | Parts A,B,C,D |
| Ritchie, David J. | 83-274 | Parts A,B,C,D |
| Schonfeld, Richard W. | 82-238 | Parts B & D |
| Sellers, George T. | 82-240 | Parts B & D |
| Tonnesen, William D. | 83-342 | Parts B & D |
| Wilson, David L. | 82-257 | Parts A,B,C,D |
| Woods, Lori J. | 83-178 | Parts B & D |

ASSAYER

| | | |
|----------------|--------|--------------|
| Teets, John C. | 82-770 | Parts I & II |
|----------------|--------|--------------|

CHEMICAL ENGINEER

| | | |
|------------------|--------|--------------|
| Richins, Lyle D. | 82-984 | Parts I & II |
|------------------|--------|--------------|

CIVIL ENGINEERS

| | | |
|-------------------------|---------|--------------|
| Bruggeman, David W. | 82-863 | Part II |
| Campos, Hector A. | 82-551 | Part II |
| Dunlop, John H., II | 82-823 | Part II |
| Hurst, Paul R. | 83-112 | Part II |
| Marum, Patrick W. | 83-061 | Part II |
| May, Donald R. | 83-029 | Part II |
| Palermo, Michael J. | 82-065 | Parts I & II |
| Powell, Robert H. | 82-1003 | Part II |
| Rockwell, Karl P. | 83-140 | Part II |
| Schierhorst, Merry-Dale | 83-039 | Part II |
| Writz, Alan J. | 83-229 | Part II |

ELECTRICAL ENGINEERS

| | | |
|--------------------|--------|--------------|
| Bisewski, Bruno J. | 83-131 | Parts I & II |
| Obleton, Nathaniel | 83-042 | Part II |
| Rogers, Jared C. | 82-606 | Part II |
| Tang, Roosevelt | 83-106 | Part II |
| Young, Paul H. | 83-095 | Part II |

MECHANICAL ENGINEERS

| | | |
|------------------------|--------|--------------|
| Bergheimer, Charles A. | 83-138 | Part II |
| Giorsetti, Peter L. | 83-115 | Parts I & II |
| Light, Debora K. | 83-129 | Part II |
| Phillips, David L. | 83-182 | Part II |
| Stevens, Halley O. | 83-125 | Part II |

METALLURGICAL ENGINEER

| | | |
|--------------------|--------|---------|
| Johnson, Robert E. | 83-098 | Part II |
|--------------------|--------|---------|

MINING ENGINEERS

| | | |
|-------------------------|--------|---------|
| Hufford, George A., Jr. | 83-180 | Part II |
| Raihl, Albert R. | 82-482 | Part II |
| Soltani, Ali | 83-154 | Part II |

STRUCTURAL ENGINEERS

| | | |
|------------------|--------|--------------------|
| Gillett, Paul E. | 83-105 | Parts II, III & IV |
| Lorenc, Stanslaw | 83-076 | Parts II, III & IV |
| Wan, Kenneth W. | 83-046 | Parts II, III & IV |

GEOLOGICAL ENGINEERS

| | | |
|--------------------|--------|---------|
| Hanna, Michael K. | 83-117 | Part II |
| Miller, Stanley M. | 83-107 | Part II |

GEOLOGIST

| | | |
|---------------------|--------|--------------|
| *Francis, Samuel R. | 83-002 | Parts I & II |
|---------------------|--------|--------------|

4. The Committees recommend that the application of the following candidates be denied for lack of satisfactory experience.

| | | | |
|---------------------|------------------|--------|------------------------------|
| Abel, Mark Edward | (Architect) | 83-271 | Lack of 12 months experience |
| Porter, Robert C. | (Architect) | 83-225 | Lack of 17 months experience |
| Chavez, Kathleen M. | (Civil) | 83-282 | Lack of 23 months experience |
| Gorman, Donald W. | (Civil) | 83-104 | Lack of 48 months experience |
| Hubbard, James Oral | (Civil) | 83-058 | Lack of 16 months experience |
| Jameson, Gregory | (Landscape Arch) | 8-0270 | Lack of 12 months experience |

5. The following applicants have requested withdrawal of their applications and it is recommended that their applications should be denied with neither prejudice nor refund.

| | | |
|----------------------|--------------|--------|
| Morriss, Steven R. | (Architect) | 83-244 |
| Wan, Kenneth W. | (Civil) | 82-966 |
| Snoddy, Jack T. | (Electrical) | 81-927 |
| Luprecht, Reynold C. | (Structural) | 82-273 |
| Kim, Kyung-Ah E. | (EIT) | 83-069 |
| Porter, David A. | (EIT) | 82-039 |

6. It is recommended that the applications of the following candidates be denied for failure to complete the requirements of the Board within a reasonable length of time.

| | | |
|-----------------------|--------------|--------|
| Kirsch, Edward R. | (Civil) | 82-322 |
| Perreault, Richard G. | (Civil) | 82-548 |
| Robinson, Frank C. | (Civil) | 81-522 |
| Wright, Edward D. | (Civil) | 81-849 |
| Ellis, David W. | (Electrical) | 81-558 |
| Johnson, James S. | (Electrical) | 81-363 |
| Schultz, Edward C. | (Electrical) | 82-029 |
| Milligan, David C. | (Mechanical) | 81-142 |
| Packard, Ivan E. | (Mechanical) | 82-532 |
| Slater, Jack I. | (Mechanical) | 82-627 |
| Yep, Francis W. | (Mechanical) | 81-058 |
| Berens, William M. | (Structural) | 82-270 |
| O'Neill, Dennis M. | (Structural) | 79-827 |
| Schram, Irwin | (Structural) | 82-293 |
| Shepard, Benjamin D. | (Structural) | 80-870 |

| | | |
|---------------------------|-------------|--------|
| Bailey, Clive Rob't. Geo. | (Geologist) | 82-079 |
| Jones, James George | (Geologist) | 81-537 |
| Soper, Donald Arthur | (Geologist) | 81-520 |
| Buckel, Raymond F. | (Land Sur.) | 82-202 |
| Castro, Frank G. | (Land Sur.) | 81-877 |
| Christman Gary Leroy | (Land Sur.) | 79-391 |
| Edwards, George Robert | (Land Sur.) | 81-732 |
| Eriks, Norman Lee | (Land Sur.) | 81-852 |
| Galindo, George T. | (Land Sur.) | 82-338 |
| Hammes, Timothy Lee | (Land Sur.) | 82-096 |
| Hubbard, Keith W. | (Land Sur.) | 82-220 |
| Lind, Dwight | (Land Sur.) | 81-797 |
| Luebkin, Dennis | (Land Sur.) | 81-681 |
| Moore, Michael Everett | (Land Sur.) | 79-121 |
| Peterson, Gregory Calvin | (Land Sur.) | 82-289 |
| Pruitt, Wilfred Edmond | (Land Sur.) | 81-864 |
| Reed, Jeffrey Alan | (Land Sur.) | 80-462 |
| Reeves, Paul Liston | (Land Sur.) | 81-760 |
| Smith, Harvey William | (Land Sur.) | 81-751 |
| Story, Darrell Gene | (Land Sur.) | 81-644 |
| Story, Gary Lynn | (Land Sur.) | 81-773 |
| Yinger, David Kay | (Land Sur.) | 82-330 |
| Afra, M. H. | (EIT) | 82-033 |
| Angeleri, Angelo | (EIT) | 82-166 |
| Baker, Walter F. | (EIT) | 81-115 |
| Bhasin, Deepak | (EIT) | 81-168 |
| Braten, Gail Kathleen | (EIT) | 82-160 |
| Chua, Jaime A. | (EIT) | 82-128 |
| Cohen, Richard A. | (EIT) | 81-299 |
| Cortright, Cheryl E. | (EIT) | 81-275 |
| Dosch, Rose I. | (EIT) | 82-008 |
| Ellsworth, Gerald C. | (EIT) | 81-280 |
| Enciso, Mario Rodolfo | (EIT) | 82-040 |
| Estrella, Gilbert O. | (EIT) | 82-150 |
| Gonzalez-Arenas, Rodolfo | (EIT) | 82-076 |
| Hammer, Lloyd Michael | (EIT) | 82-242 |
| Harney, Gregg Colin | (EIT) | 82-117 |
| Hernandez, Joseph A. | (EIT) | 82-158 |
| Howe, Kyle D. | (EIT) | 81-284 |
| Krinking, Patrick D. | (EIT) | 82-017 |
| Lamadrid, Ricardo G. | (EIT) | 82-084 |
| Luque, Eduardo | (EIT) | 82-050 |
| MacMorrان, James Donald | (EIT) | 81-171 |
| Martuneac, Laura | (EIT) | 82-116 |
| Minai, Morteza | (EIT) | 82-019 |
| Moore, Lori Leigh | (EIT) | 82-148 |
| O'Toole, Daniel Dean | (EIT) | 82-041 |
| Quellette, Pamela Joy | (EIT) | 82-156 |

| | | |
|---------------------------|--------------|--------|
| Rojas, Lee Ann | (EIT) | 82-161 |
| Shah, Harendra Kanaiyalal | (EIT) | 82-273 |
| Sedler, Martin H. | (EIT) | 81-067 |
| Squires, Myron E. | (EIT) | 81-055 |
| Szarka, Darryl Kenneth | (EIT) | 82-103 |
| Titus, Kim M. | (EIT) | 82-056 |
| Tsay, Ming Hua | (EIT) | 82-091 |
| Whiteside, John R. | (EIT) | 82-265 |
| Cannon, George C. III | (GIT) | 82-02 |
| Mogro, Carlos | (Architect) | 77-154 |
| Parker, Leonard Sam | (Architect) | 82-496 |
| Rowlands, Russell Dewey | (Architect) | 77-554 |
| Tieman, Robert Edward | (Structural) | 81-306 |
| Junkar, Frank Eugene | (EIT) | 82-253 |
| Taylor, Gayland | (EIT) | 83-004 |
| Jurko, Darren | (Land Surv.) | 81-832 |

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| ... | | 15435 |
| ... | | 15436 |

PROFESSIONAL REGISTRATION GRANTED LIST

| <u>ARCHITECT</u> | <u>REGISTRATION NUMBER</u> |
|-------------------------------|----------------------------|
| Ahuero, Robert L. | 15405 |
| Anderson, Carroll A. | 15406 |
| Anderson, Douglas John | 15407 |
| Andrews, LeRoy Miles | 15408 |
| Arancio, Joseph F. | 15409 |
| Barkus, Barry A. | 15410 |
| Berry, Ormond Robert | 15411 |
| Bowen, Herbert E. | 15412 |
| Bradley, Jack Ralph Jr. | 15413 |
| Brendecke, Roger Camp Jr. | 15414 |
| Brooks, Rodger Alan | 15415 |
| Brosius, David Allen | 15416 |
| Cady, Tommy Lee | 15417 |
| Carter, William Daniel | 15418 |
| Christensen, Timothy C. | 15419 |
| Clafien, George Leicester Jr. | 15420 |
| Clark, James Arthur | 15421 |
| Cooperman, James Morris | 15422 |
| Danielski, Francis D. | 15423 |
| Dedeke, Gary Russell | 15424 |
| Draeger, George Lawrence | 15425 |
| Fernandez, Harry James | 15426 |
| Frangella, Patrick John | 15427 |
| Godsey, Heber Carleton | 15428 |
| Goldhammer, Lewis David | 15429 |
| Graham, Bradley H. | 15430 |
| Haney, William Thomas | 15431 |
| Hixon, Sherrod Barr | 15432 |
| Holmes, Don R. | 15433 |
| Kendrick, Gregory Langton | 15434 |
| Kopecek, Josef Robert | 15435 |
| Kovacs, Laszlo | 15436 |

Professional Registration Granted List (Continued)

| <u>ARCHITECT</u> | <u>REGISTRATION NUMBER</u> |
|---------------------------|----------------------------|
| Lewis, Robert Ansley, Jr. | 15437 |
| Lieder, Bernard Bobby | 15438 |
| Lucero, Edward Horta | 15439 |
| Luscombe, John Hauck | 15440 |
| McBride, Peter Raymond | 15441 |
| Mahlman, David Stilwell | 15442 |
| Manross, John C. | 15443 |
| Meyer, Gary Warren | 15444 |
| Mitchell, James Richard | 15445 |
| Montello, James Randall | 15446 |
| Morton, James D. | 15447 |
| Novack, John Michael Jr. | 15448 |
| Powell, Raymond D. | 15449 |
| Predock, Antoine S. | 15450 |
| Ramm, Charles Albert | 15451 |
| Ray, Robert Arthur | 15452 |
| Richardson, Timothy L. | 15453 |
| Rippon, C. Spencer | 15454 |
| Roberts, Dorothy Ellen | 15455 |
| Robbins, Robert James | 15456 |
| Rusk, Dennis E. | 15457 |
| Sample, Jack Stanley | 15458 |
| Schrader, William D. Jr. | 15459 |
| Sellers, David Gene | 15460 |
| Sharp, Dennis James | 15461 |
| Smith, Fleming Wood Jr. | 15462 |
| Steinmann, John C. | 15463 |
| Tanza, David John | 15464 |
| Thompson, Thomas Moore | 15465 |
| Turner, Alan Ernest | 15466 |
| Urias, Charles Gilbert | 15467 |
| Wallace, William R. | 15468 |
| White, Donald Zenas | 15469 |
| Wilson, David M. | 15470 |
| Wuest, Richard Arthur | 15471 |
| Yen, Richard Scott | 15472 |

| <u>LANDSCAPE ARCHITECT</u> | <u>REGISTRATION NUMBER</u> |
|----------------------------|----------------------------|
| Backhaus, Mark Daniel | 15473 |
| Goltry, Stephen Wesley | 15474 |
| Mitchell, Robert Allen | 15475 |
| Walker, Theodore Delbert | 15476 |
| | |
| <u>CIVIL ENGINEER</u> | |
| Abboud, Edmond Sami | 15477 |
| Barg, William Michael | 15478 |
| Bentley, William C. | 15479 |
| Berg, Ryan Robert | 15480 |
| Bowen, Larry Fred | 15481 |
| Braccia, Mark Richard | 15482 |
| Bryant, Charles Hugh | 15483 |
| Chou, Shih-wen | 15484 |
| Dodge, Clinton Franklin | 15485 |
| Eckert, Eddie John | 15486 |
| English, Wallace Ames | 15487 |
| Feiro, James DeWitt | 15488 |
| Fitzpatrick, James Lowell | 15489 |
| Flak, Mark Andrew | 15490 |
| Howell, Harold Edward | 15491 |
| Kersich, A. T. | 15492 |
| Kreitzberg, Fred Charles | 15493 |
| LaBar, John Arthur | 15494 |
| Lane, Terrance Allan | 15495 |
| Larson, James Allen | 15496 |
| Litzenberg, Robert LeRoy | 15497 |
| Meyer, William John | 15498 |
| Mouw, Kenneth Wayne | 15499 |
| North, James Craig | 15500 |
| Owen, William Frederick | 15501 |
| Peterman, Patrick Everett | 15502 |

Professional Registration Granted List (Continued)

| <u>CIVIL ENGINEER</u> | <u>REGISTRATION NUMBER</u> |
|--------------------------------|----------------------------|
| Plumb, John | 15503 |
| Pon, Charles L. | 15504 |
| Roberts, Harold Raymond | 15505 |
| Rogers, Paul Ivan Jr. | 15506 |
| Saag, James B. | 15508 |
| Siemak, Robert Christopher | 15509 |
| Smith, Stanley Allen | 15510 |
| Turner, Paul Wesley | 15511 |
| Upton, William Kyle | 15507 |
| Van Sande, Gregory Keith | 15512 |
| Wainscott, Lotcher Aljoe | 15513 |
| Ward, Norman Charles | 15514 |
| Webb, Dean LeRoy | 15515 |
| White, Cindy Drue Chambers | 15516 |
| Wurtz, John | 15517 |
| <u>ELECTRICAL ENGINEER</u> | |
| Bennett, Keith L. | 15518 |
| Coulter, John Charles | 15519 |
| Graupmann, Rodney Wayne | 15520 |
| Handzel, James M. | 15521 |
| Mehlig, Kenneth Lee | 15522 |
| Panicker, Balachandra | 15523 |
| Peel, Harvey Albert | 15524 |
| Poe, Lewis Henry II | 15525 |
| Stalzer, Theodore R. | 15526 |
| Steinert, Thomas Mortimer | 15527 |
| Stewart, John Edward | 15528 |
| Tulchinsky, Samuel | 15529 |
| Westrom, Frederick N. | 15530 |
| <u>INDUSTRIAL ENGINEER</u> | |
| Murphree, William T. | 15551 |

Professional Registration Granted List (Continued)

| <u>MECHANICAL ENGINEER</u> | <u>REGISTRATION NUMBER</u> |
|-------------------------------|----------------------------|
| Andrews, Robert A. | 15531 |
| Averette, Henry Swanson | 15532 |
| Bailey, Lewis G. | 15533 |
| Baker, Timothy Dewar | 15534 |
| Champion, Noel M. | 15535 |
| DiIorio, Ermenegildo | 15536 |
| Engler, Martin Russell, Jr. | 15537 |
| Limaye, Jayant S. | 15538 |
| Lough, Daniel Robert | 15539 |
| McGinnis, Larry Ralston | 15540 |
| Miller, Kenneth E. | 15541 |
| Pangrac, Stanley D. | 15542 |
| Perea, Emilio | 15543 |
| Phillips, Lyle Edwin | 15544 |
| Riopelle, Earl F. | 15545 |
| Ryan, Ronald Eugene | 15546 |
| Shah, Raj P. | 15547 |
| Walker, Terry Lee | 15548 |
| <u>MINING ENGINEER</u> | |
| Koskiniemi, Benjamin Clarence | 15549 |
| <u>NUCLEAR ENGINEER</u> | |
| Miller, Kenneth E. | 15550 |
| <u>STRUCTURAL ENGINEER</u> | |
| Bengel, Marian J. | 15552 |
| Cardillo, Anthony | 15553 |
| Chou, Chin Piau | 15554 |
| Freedman, Arthur Raymond | 15555 |
| Golovin, Maury | 15556 |
| Harrell, Thomas Benjamin Jr. | 15557 |
| Hauge, Carroll Kenard | 15558 |
| Hirsch, George William | 15559 |

Professional Registration Granted List (Continued)

| <u>STRUCTURAL ENGINEER</u> | <u>REGISTRATION NUMBER</u> |
|-----------------------------|----------------------------|
| Miller, Robert Dale | 15560 |
| Rudner, Stephen Michael | 15561 |
| Shah, Krishna | 15562 |
| Starling, Ronald Allen | 15563 |
| Summers, Curtis Dean | 15564 |
| Tucker, Jerry Walter | 15565 |
| Walker, Robert Allen | 15566 |
| Wan, Lee | 15567 |
| Woodworth, Arthur Jerome | 15568 |
| <u>LAND SURVEYOR</u> | |
| Clarke, William Gregory | 15569 |
| Edrial, Aproniano Ragay Sr. | 15570 |
| Green, William Lee | 15571 |
| Heimbuck, Michael D. | 15572 |
| Hughes, Gerald David | 15573 |
| Latvala, Warren Pershing | 15574 |
| Parrish, John S. | 15575 |
| Pokatello, Paul George | 15576 |
| Scott, James Maurice Jr. | 15577 |
| Shambeck, George Donald | 15578 |
| Stuercke, James Edward | 15579 |
| <u>GEOLOGIST</u> | |
| Curtis, Herbert Starr | 15580 |
| Muir, Stephen Gregory | 15581 |
| <u>ASSAYER</u> | |
| Ingram, Robert Edward Lee | 15582 |
| Weatherby, Jim Roy | 15583 |

ARCHITECT IN TRAINING GRANTED LIST

15922

| | |
|------------------------------|-----|
| Abel, Mark Edward | 435 |
| Allyn, Judson Bennett | 436 |
| Attaya, Charles B. | 437 |
| Battles, Scott Lee | 438 |
| Beck, Jean | 439 |
| Black, John August | 440 |
| Brissette, Ronald G. | 441 |
| Canter, Steven Barry | 442 |
| Capelli, Brian | 443 |
| Cherner, Benjamin Bernard | 444 |
| Cox, Val M. | 445 |
| Elstermeyer, Richard C. | 446 |
| Ferrer, Marc Hamilton | 447 |
| Floyd, Anthony Craig | 448 |
| Friedberg, David G. | 449 |
| Giagni, Edward B. | 450 |
| Helms, Vicki Lee | 451 |
| Johnson, Dudley J., Jr. | 452 |
| Lichtenberger, Steven | 453 |
| Massengill, Robert Lee, Jr. | 454 |
| Mauldin, Robert Leo | 455 |
| Michalowski, John Henry, Jr. | 456 |
| Nichol, William Frederick | 457 |
| Osterman, Gary | 458 |
| Patry, Daniel P. | 459 |
| Pignetti, Joseph M. | 460 |
| Piskac, Joseph Charles | 461 |
| Poehler, Daniel H. | 462 |
| Rald, Carl | 463 |
| Scaglione, Peter M. | 464 |
| Simon, John Paul | 465 |
| Surgener, James Stephen | 466 |
| Taylor, Mark C. | 467 |
| Taylor, William John | 468 |
| Uerkvitz, Kent J. | 469 |
| Vandermolen, Kevin A. | 470 |
| Vandrovec, William J. | 471 |
| Wilkes, Roger | 472 |
| Willis, Dennis Wayne | 473 |
| Wood, Stephen L. | 474 |
| Wretlind, Michael | 475 |

ENGINEER IN TRAINING GRANTED LIST

05923

MEETING SERVICE
JULY 27, 1961

CALL TO ORDER

The special meeting of the State Board of Technical Registration, held in Room 112 of the Occupational Licensing Building, 1645 W. Jefferson, Phoenix Arizona was called to order by Chairman Glenn I. Brown at 1:15 p.m. Roll call was taken with the following present:

| | |
|---------------------------|------|
| Aday, Donald G. | 2890 |
| Armstrong, Glenn I. | 2891 |
| Bachman, Dennis | 2892 |
| Banas, Andrew | 2893 |
| Boxberger, Frank | 2894 |
| Carlson, John Richard | 2898 |
| Chen, Patrick Y.C. | 2895 |
| Dreasen, Richard H. | 2896 |
| Hamm, Kenneth R., Jr. | 2897 |
| Imlach, John Kevin | 2899 |
| Levin, Mark Alan | 2900 |
| Pomerantz, Douglas Keith | 2901 |
| Stevenson, George Raymond | 2902 |
| Stout, Daniel Scott | 2903 |
| Williams, Donald Paul | 2904 |

ABSENT: John Kead, Vice-Chairman
Stewart Palmer, Member
Robin Martin, Member

It was moved by Dr. O'Donnell and seconded by Mr. Brown to accept the minutes of the previous meeting. MOTION CARRIED. At the meeting the Board recommended in Open Session. Professor Borgo discussed his feelings regarding the Board being run by the attorney instead of Board members. He expressed displeasure with using the 2-1/2 hour course instead of the one hour for granting registration in land surveying. Professor Borgo also requested that the Board appear before the Board of Regents and advocate for formal education in land surveying. He was thanked for his appearance and invited to appear before the Board anytime.

REGISTRATION ACTION

1. Report of the Qualification Commission (pp. 1-3) It was moved by Dr. O'Donnell and seconded by Mr. Brown to accept the report stated on pages 05923 of these minutes except through California for registration under A.R.S. 12-127.01 and A.R.S. 12-126. The motion was amended to exclude Clark, Edwards and Tolan. MOTION CARRIED.

2. Certification of Examination Results (pp. 4-5) It was moved by Mr. Brown and seconded by Mr. Callie to approve the scores as shown on pages 05924-5 of these minutes and to accept the summarizing results. It was moved by Mr. Brown and seconded by Mr. Callie to accept 300 as the cut-off score. MOTION CARRIED.

MINUTES OF REGISTRATION

1. Professional Registrations (pp. 6-7) It was moved by Dr. O'Donnell and seconded by Mr. Brown that the applicants listed on pages 05927-8 of these minutes be granted registration with salaries as shown, meeting with Sherpave through Wisconsin. MOTION CARRIED.

It was moved by Dr. O'Donnell and seconded by Mr. Brown that

M I N U T E S

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

REGULAR SESSION

JULY 21, 1983

I. CALL TO ORDER

The special meeting of the State Board of Technical Registration, held in Room 212 of the Occupational Licensing Building, 1645 W. Jefferson, Phoenix Arizona was called to order by Chairman Jimmie Nunn at 1:00 p.m. Roll call attendance was taken with the following present.

| | | | |
|----------|-----------------------------|---------|---------------------------|
| PRESENT: | Jimmie R. Nunn, Chairman | ABSENT: | John Riggs, Vice-chairman |
| | Silas Brown, Secretary | | Stewart Palmer, Member |
| | Paul Cella, Member | | Robin Morris, Member |
| | Ronald Mlnarik, Member | | |
| | Charles E. O'Bannon, Member | | |

II. EXECUTIVE SESSION: It was moved by Dr. O'Bannon and seconded by Mr. Brown that the Board convene in Executive Session. MOTION CARRIED. At the conclusion of the Executive Session, the Board reconvened in Open Session.

III. PUBLIC COMMENT: Professor Borgo, registered land surveyor from ASU, commented on a number of items: Public Notice - Professor Borgo felt that a notice should be placed in the newspaper and felt that a list of applicants who have been granted registration should also be inserted into the newspaper. Professor Borgo discussed his feelings regarding the Board being run by the attorney instead of Board members. He expressed displeasure with using the Z-Test scores instead of the raw scores for granting registration in land surveying. Professor Borgo also requested that the Board appear before the Board of Regents and advocate for formal education in land surveying. He was thanked for his appearance and invited to appear before the Board anytime.

IV. REGISTRATION ACTION

A. Report of the Evaluation Committees (pp)
It was moved by Dr. O'Bannon and seconded by Mr. Brown to adopt the names listed on pages 05927 of these minutes Bogott through Baldwin for registration under A.R.S. 32-122.01 and A.R.S. 32-126. The motion was amended to exclude Black, Panopio and Teran. MOTION CARRIED.

B. Certification of Examination Results (pp)
It was moved by Mr. Brown and seconded by Mr. Cella to approve the scores as shown on pages 05936A-J of these minutes and to accept the examination results. It was moved by Mr. Brown and seconded by Mr. Cella to accept 70% as the cut-off score. MOTIONS CARRIED.

C. GRANTING OF REGISTRATION

1. Professional Registrations (pp) It was moved by Dr. O'Bannon and seconded by Mr. Brown that the applicants listed on pages 05937A-B of these minutes be granted registration with numbers as shown, starting with Bhargava through Wisniewski. MOTION CARRIED

2. It was moved by Dr. O'Bannon and seconded by Mr. Mlnarik that

the following applicants be granted registration as Architects with numbers as indicated, Bogott through Shonkwiller. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Mlnarik that the applicants listed on page 05930 of these minutes be granted registration as Civil Engineers with numbers as shown beginning with Antony and through Wollam. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Cella that the applicants listed on page 05931 of these minutes be granted registration as Mechanical Engineers with registration numbers beginning with 15723 and ending with 15741 Abbott through Tsuchiyama. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Cella that Michael Curran be granted registration as Mining Engineer with registration number 15742. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Brown that Robert Monk be granted registration as Sanitary Engineer with registration number 15746 MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Mlnarik that the following Structural Engineer applicants be granted registration with registration numbers beginning with 15744 and ending with 15758, Barnett through Wong. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Cella that the following land surveyors be granted registration with numbers beginning 15759 through 15771, Abplanalp through Wheeler. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Brown that Joel Baldwin be granted registration with registration number 15775 as shown. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Brown that the following applicants, Ahrendt through Zeurcher, be granted EIT with the numbers as shown. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Brown that Peter Mock be granted GIT in training with registration number 37. MOTION CARRIED.

V. REPORT OF THE EXECUTIVE DIRECTOR

A. Local Land Surveyor Examination

1. Special Review Committee - Examination Results - Ms. Ross requested the Board appoint a special committee to evaluate the examination. It was moved by Mr. Cella and seconded by Mr. Brown that the Chairman appoint a committee to review the examination results with recommendation available to the Board at their September meeting. MOTION CARRIED.
2. Preparation, October 1983 Examination - It was moved by Mr. Cella and seconded by Mr. Brown for the Chairman to appoint a committee to prepare the October examination for land surveyors. MOTION CARRIED.
3. Ms. Ross discussed receiving the invoice for the October examination of 1982 by Professor Borgo. She stated that she had encumbered the money but was unsure as to whether the state would be able to pay for it as the claim was submitted so much after the fact.

B. Ms. Ross discussed the resolution that was passed by NCARB regarding California

and their ability to utilize NCARB for exam. She informed the Board that it was a very distinct possibility that the problem with NCARB and California would not be straightened out before the next exam and we could be swamped by applicants wanting to take the architecture exams. The ramification of such an eventuality was discussed by the Board.

VI. OTHER BUSINESS

A. Report NCARB Annual Meeting - Jimmie Nunn
Chairman Nunn reported on what had transpired at the NCARB meeting. He informed the Board that Ms. Morris had been appointed to the public member committee of NCARB. He impressed on the Board the honor of having our public member appointed to the committee.

B. Out-of-State Travel

1. NCEE Annual Meeting

Ms. Ross stressed the importance of having two members represent the Board at the annual meeting. She stated that it was imperative that the Executive Director attend since what happened at the meeting could impact the operations of the Board regarding examinations.

2. CLARB Annual meeting - Ms. Ross requested that the Board appoint Mr. Mlnarik as its representative at CLARB's annual meeting. It was moved by Mr. Brown and seconded by Mr. Cella to have both Dr. O'Bannon and Ms. Ross attend the NCEE annual meeting. MOTION CARRIED.

It was moved by Mr. Cella and seconded by Mr. Brown that Mr. Mlnarik attend the CLARB meeting. MOTION CARRIED.

3. CLEAR

Ms. Ross requested Board's permission to attend CLEAR's annual meeting. It was moved by Mr. Brown and seconded by Mr. Mlnarik that Ms. Ross attend CLEAR's Annual meeting as Board's representative. MOTION CARRIED.

Mr. Cella requested copies of the new budget so that the Board could be aware of what they have ahead of them for the new year.

Since Mr. Palmer had requested the next two items be placed on the agenda but had not attended the meeting, it was requested that the items be placed on the September agenda.

The next meeting will be September 9th at NAU.

It was moved by Mr. Brown and seconded by Mr. Cella to Adjourn. MOTION CARRIED.

TO: Board of Technical Registration

FROM: The Phoenix and Tucson Evaluation Committees
Chairmen, Brown, Palmer
Members, Cella, Mlnarik, Morris, O'Bannon and Nunn

SUBJECT: Evaluation of Applicants, July 21, 1983

The Evaluation Committees reviewed the following applicants and make to the Board the recommendations shown regarding registration in Arizona.

1. The following applicants, having satisfied the Committees that they are fully qualified to receive registration in Arizona under A.R.S. 32-122.01 and A.R.S. 32-126, are hereby recommended for registration:

ARCHITECTS

| | |
|-----------------------|--------|
| Bogott, Mark Lawrence | 83-398 |
| Boyle, Jack | 83-165 |
| Butler, Terrance | 83-290 |
| Gray, Clyde | 83-348 |
| Maiwurm, Donald J. | 82-404 |
| Shonkwiler, Gerald | 83-500 |

CIVIL ENGINEERS

| | |
|------------------------------|-------------------|
| Antony, Roger | 83-415 |
| Baele, Roger | 83-196 |
| Baldwin, William J. Jr. | 83-283 |
| Bayer, Albert | 83-065 |
| Becerra, Guillermo | 83-025 |
| Beers, Richard Jr. | 83-360 |
| Belshe, Mark | 83-439 |
| Black, Gregory D. | 83-393 |
| Campbell, Robert | 83-432 |
| Carter, Malcolm | 83-250 |

CIVIL ENGINEERS

| | |
|--------------------|--------|
| Castro, Frank | 83-238 |
| Chann, Irving | 83-421 |
| Chen, James | 83-401 |
| Christensen, Carl | 83-478 |
| Coleman, William | 83-034 |
| Crow, Kenneth | 83-371 |
| Denis, Kenneth | 82-909 |
| Fahey, Janet | 83-361 |
| Fleming, Randolph | 82-465 |
| Heffernan, Kathryn | 83-183 |
| Hemken, Bradley | 83-280 |
| Kopplin, James | 83-397 |
| Lee, Hon-Woo | 83-314 |
| Lowe, Richard | 83-201 |
| MacIntosh, Oliver | 82-884 |
| McCloud, Robert | 83-147 |
| Neri, Lino Jr. | 83-426 |
| Newton, Derrick | 83-128 |
| Newton, Philip | 83-381 |

CIVIL ENGINEERS

| | |
|----------------------|--------|
| Phinney, Dennis | 83-158 |
| Plambeck, Charles | 83-378 |
| Schaeffli, Andrew | 83-448 |
| Stephens, Charles | 83-387 |
| Storch, Herbert | 83-429 |
| Sweet, William | 83-462 |
| Van Dyke, Richard II | 83-365 |
| Van Heuit, Robert | 83-215 |
| Weisiger, Daniel | 83-470 |
| Werblow, Thomas | 83-406 |
| Wollam, Miles | 83-443 |

ELECTRICAL ENGINEERS

| | |
|--------------------|--------|
| Blitz, Murray | 83-279 |
| Davis, Allen | 82-505 |
| Giefer, James W. | 83-403 |
| Gilgan, Joseph | 83-386 |
| Howard, William | 82-667 |
| Reynolds, Parman | 83-296 |
| Robbins, James III | 83-438 |
| Roberts, Robert | 83-293 |
| Laney, George C. | 83-391 |

MECHANICAL ENGINEERS

| | |
|-------------------|--------|
| Abbott, Paul | 83-404 |
| Abdelmalek, Fawzy | 83-479 |
| Barrick, James | 83-123 |
| Batal, Jerome | 83-198 |

MECHANICAL ENGINEERS

| | |
|----------------------------|-------------------|
| Baumgartel, Howard III | 82-928 |
| Dvorscek, John | 83-363 |
| Fisher, Steve | 82-836 |
| Ishii, William | 83-325 |
| Grimes, Joe | 83-295 |
| Keegan, Robert Allen | 83-351 |
| Luallin, Donald | 83-260 |
| Lindell, Richard | 83-377 |
| McKay, William | 83-364 |
| Martino, Gregory | 83-434 |
| Panopio, Andrew | 83-248 |

| | |
|---------------------------|-------------------|
| Robinson, William | 83-251 |
| Shull, John | 83-414 |
| Singleton, Walter | 83-384 |
| Smith, James | 83-170 |
| Teran, Antonio | 83-214 |
| Tsuchiyama, Victor | 83-419 |

MINING ENGINEER

| | |
|-----------------|--------|
| Curran, Michael | 83-264 |
|-----------------|--------|

SANITARY ENGINEER

| | |
|--------------|--------|
| Monk, Robert | 83-268 |
|--------------|--------|

STRUCTURAL ENGINEERS

| | |
|------------------|--------|
| Barnett, Jerry | 83-389 |
| Chen, James | 83-402 |
| Donovan, Timothy | 83-344 |

Evaluation Committees Report - Cont'd

05929

STRUCTURAL ENGINEERS

| | |
|-------------------------|--------|
| Elrod, Ronnie | 83-252 |
| Ferguson, Jon | 83-400 |
| Goldstein, Stanley | 83-382 |
| Hansen, Darrell | 83-399 |
| Jackson, Joseph | 83-459 |
| Kinsel, Thomas | 83-209 |
| Lefkofsky, William | 83-484 |
| McQueen, Wilson | 83-308 |
| Needham, Jeffrey | 83-249 |
| Starostovic, Edward Jr. | 83-294 |
| Williams, Herbert | 83-164 |
| Wong, Hoi | 83-487 |

LAND SURVEYORS

| | |
|----------------------|--------|
| Abplanalp, Terry | 83-089 |
| Benintente, Arthur | 83-486 |
| Burdette, Guy Martin | 83-411 |
| Christensen, Carl | 83-478 |
| Coleman, William | 83-033 |
| Cory, Jeffrey | 83-464 |

| | |
|------------------|--------|
| Lee, Wayne | 83-122 |
| McHarg, Donald | 82-301 |
| Robinson, Robert | 83-136 |
| Rude, Morrell | 83-205 |
| Straub, James H. | 83-412 |
| Morden, Robert | 82-791 |

| | |
|----------------|--------|
| Wheeler, Wayne | 83-126 |
|----------------|--------|

GEOLOGIST

| | |
|---------------|--------|
| Baldwin, Joel | 83-086 |
|---------------|--------|

PROFESSIONAL GRANTED LIST - BY RECIPROCITY

If approved by the Board the following Architects will be granted registration numbers beginning with 15669 and ending with 15674:

| | |
|-----------------------|--------------------|
| Bogott, Mark Lawrence | Gray, Clyde |
| Boyle, Jack | Maiwurm, Donald J. |
| Butler, Terrance | Shonkwiler, Gerald |

If approved by the Board the following Civil Engineers will be granted registration numbers beginning with 15675 and ending with 15714:

| | |
|-------------------------|----------------------|
| Antony, Roger | Fleming, Randolph |
| Baele, Roger | Heffernan, Kathryn |
| Baldwin, William J. Jr. | Hemken, Bradley |
| Bayer, Albert | Kopplin, James |
| Becerra, Guillermo | Lee, Hon-Woo |
| Beers, Richard Jr. | Lowe, Richard |
| Belshe, Mark | MacIntosh, Oliver |
| Black, Gregory D. | McCloud, Robert |
| Campbell, Robert | Neri, Lino Jr. |
| Carter, Malcolm | Newton, Derrick |
| Castro, Frank | Newton, Philip |
| Chann, Irving | Phinney, Dennis |
| Chen, James | Plambeck, Charles |
| Christensen, Carl | Schaeffli, Andrew |
| Coleman, William | Stephens, Charles |
| Crow, Kenneth | Storch, Herbert |
| Denis, Kenneth | Sweet, William |
| Fahey, Janet | Van Dyke, Richard II |
| | Van Heuit, Robert |
| | Weisiger, Daniel |
| | Werblow, Thomas |
| | Wollam, Miles |

PROFESSIONAL GRANTED LIST - BY RECIPROCITY

If approved by the Board the following Electrical Engineers will be granted registration numbers beginning with 15715 and ending with 15722:

| | |
|------------------|--------------------|
| Blitz, Murray | Howard, William |
| Davis, Allen | Reynolds, Parman |
| Giefer, James W. | Robbins, James III |
| Gilgan, Joseph | Roberts, Robert |
| | Laney, George C. |

If approved by the Board the following Mechanical Engineers will be granted registration numbers beginning with 15723 and ending with 15741:

| | |
|------------------------|----------------------------|
| Abbott, Paul | Martino, Gregory |
| Abdelmalek, Fawzy | Panopio, Andrew |
| Barrick, James | Robinson, William |
| Batal, Jerome | Shull, John |
| Baumgartel, Howard III | Singleton, Walter |
| Dvorscek, John | Smith, James |
| Fisher, Steve | Teran, Antonio |
| Ishii, William | Tsuchiyama, Victor |
| Grimes, Joe | |
| Keegan, Robert Allen | |
| Luallin, Donald | |
| Lindell, Richard | |
| McKay, William | |

If approved by the Board the following Mining Engineer will be granted registration number 15742:

Curran, Michael

If approved by the Board the following Sanitary Engineer will be granted registration number 15743:

Monk, Robert

PROFESSIONAL GRANTED LIST - BY RECIPROCITY

If approved by the Board the following Structural Engineers will be granted registration numbers beginning with 15744 and ending with 15758.

| | | | |
|--------------------|------|-------------------------|------|
| Barnett, Jerry | 2910 | Jackson, Joseph | 2965 |
| Chen, James | 2911 | Kinsel, Thomas | 2967 |
| Donovan, Timothy | 2912 | Lefkofsky, William | 2969 |
| Elrod, Ronnie | 2914 | McQueen, Wilson | 2971 |
| Ferguson, Jon | 2916 | Needham, Jeffrey | 2973 |
| Goldstein, Stanley | 2918 | Starostovic, Edward Jr. | 2975 |
| Hansen, Darrell | 2921 | Williams, Herbert | 2977 |
| | 2922 | Wong, Hoi | 2979 |
| | 2923 | | 2980 |
| | 2924 | | 2981 |
| | 2925 | | 2982 |

If approved by the Board the following Land Surveyors will be granted registration numbers beginning with 15759 and ending with 15771:

| | | | |
|----------------------|------|------------------|------|
| Abplanalp, Terry | 2929 | Lee, Wayne | 2985 |
| Benintente, Arthur | 2931 | McHarg, Donald | 2987 |
| Burdette, Guy Martin | 2933 | Robinson, Robert | 2989 |
| Christensen, Carl | 2935 | Rude, Morrell | 2991 |
| Coleman, William | 2937 | Straub, James H. | 2993 |
| Cory, Jeffrey | 2939 | Morden, Robert | 2995 |
| | 2941 | | 2997 |
| | 2942 | | 2999 |
| | 2943 | Wheeler, Wayne | 3001 |
| | 2944 | | 3003 |
| | 2945 | | 3005 |

If approved by the Board the following Geologist will be granted registration number 15772:

| | | | |
|---------------|------|---------------------|------|
| Baldwin, Joel | 2947 | Oshorn, Douglas R. | 3004 |
| | 2948 | Peters, Douglas E. | 3005 |
| | 2949 | Ryan, Frank D. | 3006 |
| | 2950 | Phillips, Jayne | 3007 |
| | 2951 | Pantous, Neil L. | 3008 |
| | 2952 | Price, Kent A. | 3009 |
| | 2953 | Fritchard, Jeffrey | 3010 |
| | 2954 | Prochaska, Cary G. | 3011 |
| | 2955 | Quinn, John H. | 3012 |
| | 2956 | | 3013 |
| | 2957 | Rayhel, John H. | 3014 |
| | 2958 | Rosenstein, Fred J. | 3015 |
| | 2959 | Reynolds, Jack A. | 3016 |
| | 2960 | Ritter, John | 3017 |
| | 2961 | Roberts, John E. | 3018 |

| | | | |
|-----------------------|------|-----------------------|------|
| Ahrendt, Terry | 2905 | Jamison, James P. | 2962 |
| Aldridge, Richard | 2906 | Jecker, Brian D. | 2963 |
| Allen, Roger A. | 2907 | Jensen, Robert L. | 2964 |
| Amadori, Michael A. | 2908 | Johnson, Larry R. | 2965 |
| Baca, Diana M. | 2909 | Johnson, Stanley J. | 2966 |
| Ballesteros, Louis C. | 2910 | Kansakar, Rajendra | 2967 |
| Behnejad, Mohammad R. | 2911 | Keefer, Debbie A. | 2968 |
| Bell, Christopher A. | 2912 | Kenknight, Lynette J. | 2969 |
| Belt, Denise E. | 2913 | Kenyon, David P. | 2970 |
| Bement, Eric D. | 2914 | Krane, Steven A. | 2971 |
| Berghian, John V. | 2915 | Kriz, Donald J. | 2972 |
| Blaszyk, Christopher | 2916 | Krochmalny, Andrew J. | 2973 |
| Bloxham, Daniel | 2917 | La Mantia, Philip | 2974 |
| Bluff, Guy W. | 2918 | Landsborough, J. | 2975 |
| Bonfili, Michelle E. | 2919 | Larimore, Stephen W. | 2976 |
| Bowyer, Michael D. | 2920 | LeCompte, Robert | 2977 |
| Brand, Scott R. | 2921 | Lekacz, Eric E. | 2978 |
| Broughton, Stacy L. | 2922 | Levinson, Catherine | 2979 |
| Buhr, Karl H. | 2923 | Lodge, James R. | 2980 |
| Bultman, Steven | 2924 | Lund, Barbara | 2981 |
| Butt, Robert S. | 2925 | Lydick, Henry | 2982 |
| Cao, Thong V. | 2926 | McCarthy, Dennis | 2983 |
| Cargill, John G. | 2927 | Malaney, William | 2984 |
| Chow, Philip | 2928 | Martin, Stephen | 2985 |
| Cluff, Kevin D. | 2929 | Matheus, Jorge | 2986 |
| Coombe, William | 2930 | Mathis, Tony | 2987 |
| Cramer, Stewart | 2931 | Maxwell, Mark E. | 2988 |
| | | Meade, Robert L. | 2989 |
| Culver, Kerry | 2933 | Meeler, Mary | 2990 |
| De Luca, James | 2934 | Meyer, Timothy L. | 2991 |
| David, Jack L. | 2935 | Miller, Daniel A. | 2992 |
| Dial, David C. | 2936 | Miller, John S. | 2993 |
| Dickinson, Mark B. | 2937 | Miller, Peter S. | 2994 |
| Dippre, M. David | 2938 | Moeller, Mark | 2995 |
| Draper, Robert J. | 2939 | Moffett, Stephen | 2996 |
| Duvall, Marc A. | 2940 | Morrison, Timothy | 2997 |
| Felke, Timothy J. | 2941 | Morton, Kathleen | 2998 |
| Figuroa, Marco A. | 2942 | Neal, Clifford A. | 2999 |
| Finn, Kevin F. | 2943 | Nelson, Patricia K. | 3000 |
| Foster, Lloyd C. | 2944 | Newkirk, Paul H. | 3001 |
| Francis, Timothy | 2945 | Nyhuis, Bruce W. | 3002 |
| Frazier, Dobie E. | 2946 | Olson, Robert O. | 3003 |
| Gardner, Kevin D. | 2947 | Osborn, Douglas R. | 3004 |
| Gates, Roy A. | 2948 | Peters, Douglas E. | 3005 |
| Gilbert, Mark M. | 2949 | Phan, Thanh Q. | 3006 |
| Giorsetti, Peter L. | 2950 | Phillips, Jayne | 3007 |
| Glock, James W. | 2951 | Pontious, Ned L. | 3008 |
| Guenther, Derek P. | 2952 | Price, Kent A. | 3009 |
| Hampel, Eric | 2953 | Pritchard, Jeffrey | 3010 |
| Hardash, Steve G. | 2954 | Prochaska, Cory G. | 3011 |
| Harwell, Roger B. | 2955 | Quinn, John M. | 3012 |
| Hinman, Steven N. | 2956 | | |
| Hitchcock, Jay C. | 2957 | Rayhel, John M. | 3014 |
| Hollander, Robert A. | 2958 | Rasmussen, Brad J. | 3015 |
| Hoyer, Robert L. | 2959 | Rencsok, Joel A. | 3016 |
| Howell, Martin K. | 2960 | Ritter, John | 3017 |
| Iamuzzi, Mark P. | 2961 | Roberts, John E. | 3018 |

ENGINEER IN TRAINING GRANTED LIST CONT'D

05934

| | |
|----------------------|------|
| Robotham, Hugh B. | 3019 |
| Rollins, Jonathan | 3020 |
| Saunders, Romona V. | 3021 |
| Savage, Robert W. | 3022 |
| Smith, Michael W. | 3023 |
| Smith, Rodney L. | 3024 |
| Stinson, Elizabeth | 3025 |
| Stott, Robert A. | 3026 |
| Struttman, Joe | 3027 |
| Sweeney, Alice | 3028 |
| Szymanski, Karl | 3029 |
| Townsley, Valerie J. | 3030 |
| Tsay, Jinn S. | 3031 |
| Valle, William | 3032 |
| Van Echo, John P. | 3033 |
| Viparina, Mary | 3034 |
| Walker, Robert H. | 3035 |
| Welch, Robert E. | 3036 |
| Wiedrich, Kim | 3037 |
| Wierzal, Robert | 3038 |
| Wood, John D. | 3039 |
| Yacoub, Mohamad | 3040 |
| York, Jeff | 3041 |
| Zeurcher, Duane R. | 3042 |

GEOLOGIST IN TRAINING GRANTED LIST

05935

*B
Thompson*

Mock, Peter A.

37

MINERALOGY
AND GEOLOGY

PRINCIPLES AND PRACTICES
OF FIELD WORK

[Faint, mostly illegible list of names and associated data, including names like Mock, Peter A., and others.]

[Faint columns of data, likely corresponding to the 'MINERALOGY AND GEOLOGY' and 'PRINCIPLES AND PRACTICES OF FIELD WORK' headers.]

EXAMINATION RESULTS (CONT'D)

05936 A

FUNDAMENTALS OF
ENGINEERING

PRINCIPLES AND PRACTICES
OF ENGINEERING

ELECTRICAL ENGINEERS

| | | | |
|--------|---------------------|----|---|
| 81-901 | Abdallah, Hanna | P | P |
| 82-545 | Baker, Michael H. | NT | P |
| 78-393 | Brown, Lewis E. | P | F |
| 82-072 | Burgett, Michael R. | NT | P |
| 75-185 | Campbell, William | F | P |
| 81-822 | Conovaloff, Bill J. | NT | P |
| 80-752 | Cook, Harley E. | NT | F |
| 83-009 | Cousy, Robert E. | F | P |
| 82-939 | Crabb, David H. | NT | P |
| 82-776 | Cunning, Raymond D. | NT | F |
| 79-727 | Echols, Jack D. | P | F |
| 79-227 | Emerson, Asher D. | NT | F |
| 82-119 | Evans, Thomas | F | F |
| 81-492 | Farber, Victor L. | F | F |
| 74-669 | Haines, Robert T. | F | P |
| 76-578 | Hawkins, Dan J. | NT | F |
| 83-023 | Hypse, Mark L. | NT | P |
| 82-938 | Jones, David W. | F | F |
| 80-582 | Lammer, Jerome E. | NT | P |
| 72-487 | Loar, James A. | P | F |
| 83-055 | Perry, Wayne H. | P | P |
| 82-422 | Prichard, Clyde W. | NT | P |
| 80-016 | Ross, Everett C. | P | F |
| 82-663 | Shaw, Alex L. | P | P |
| 82-025 | Webster, Joseph A. | NT | P |
| 80-699 | Wortham, Jimmie J. | F | F |

MECHANICAL ENGINEERS

| | | | |
|--------|----------------------|----|---|
| 80-471 | Bagby, Philip S. | P | F |
| 80-528 | Bledsoe, Lloyd D. | NT | F |
| 83-082 | Bloomfield, David C. | NT | P |
| 83-047 | Carragher, Joseph A. | NT | P |
| 82-664 | Deshmukh, Prakash Y. | NT | P |
| 82-814 | Doyle, Dennis M. | NT | P |
| 77-655 | Drummond, David T. | NT | F |
| 82-574 | DuChateau, George J. | NT | P |
| 82-610 | Fait, James D. | NT | P |
| 82-809 | Fish, William H. | NT | P |
| 78-130 | Hannifin, Edmund N. | F | P |
| 82-557 | Holstein, Jeffery | NT | P |
| 82-630 | Howe, William J. | NT | P |
| 82-116 | Humes, John L. | P | P |
| 82-895 | Lucken, Lawrence S. | NT | P |
| 83-072 | McDaniel, T. E. | NT | P |
| 70-432 | Miller, Marion E. | F | P |
| 82-602 | Mondragon, Arnold S. | F | F |
| 82-897 | Muir, Martin J. | NT | P |

FUNDAMENTALS OF ENGINEERING

PRINCIPLES AND PRACTICES OF ENGINEERING

MECHANICAL ENGINEERS

82-659 Pellouchoud, Daniel A.
 81-612 Petit, Elwood P.
 81-913 Riley, Henry W.
 82-948 Sherman, Charles E.
 80-449 Snow, Gene H.
 81-401 Stover, John S.
 82-988 Tay, Kim M.
 83-028 Thomas, Richard G.
 83-110 Weinbrecht, Edward A.
 82-877 West, Edward M.
 82-981 Yates, Frank W.

| | |
|----|---|
| NT | P |
| NT | F |
| NT | P |
| NT | P |
| F | P |
| NT | F |
| NT | P |
| NT | P |
| NT | P |
| NT | P |
| NT | P |
| NT | P |

SANITARY ENGINEERS

79-339 Crisafulli, Lawrence M.
 82-854 Grosvenor, Harley J.
 82-657 Kuo, Ching-Jey

| | |
|----|---|
| F | F |
| F | P |
| NT | P |

STRUCTURAL ENGINEERS

78-319 Barre, Ib
 83-016 Black, Gregory D.
 81-580 Johnson, Perry A.
 81-088 Lamb, Lawrence G.
 81-848 Leonard, David M.
 82-588 McGlamery, Samuel T.
 81-517 Malik, Mahmood
 82-901 Martin, Thomas D.
 82-787 Pereanu, Sebastian C.
 82-399 Puicon, Michael T.
 82-080 Stirnitzke, Robert E.
 82-964 Turner, Mark S.

| | | LATERAL FORCES | STRUC. ENGR. |
|--------|----|----------------|--------------|
| NT | P | P | F |
| NT | NT | P | P |
| P - NO | P | P | P |
| NT | NT | F | F |
| NT | NT | F | F |
| NT | NT | F | P |
| NT | NT | P | P |
| P | P | F | P |
| NT | NT | P | P |
| F | P | | |
| NT | NT | F | F |
| NT | F | P | P |

EXAMINATION RESULTS (CONT'D)

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GEOLOGICAL ENGINEER

70-226 Youell, James R.

LAND SURVEYORS

GEOLOGISTS

82-749 Eastmoore, Norman
 82-212 Huerstel, Gerald J.
 82-788 Morris, Stuart K.
 82-707 Schrock, Gary E.
 81-604 Lemmon, James J.
 82-643 Noel, Stephen D.
 82-741 Von Boeck, Rene
 82-883 Wilt, Jan C.

FUNDAMENTALS OF ENGINEERING

PRINCIPLES AND PRACTICES OF ENGINEERING

F

P

NT
 F
 NT
 F
 P
 F
 NT
 NT

P
 F
 F
 P
 F
 P
 P
 P

Includes only applicants evaluated prior to October, 1982 examinations and only requiring successful completion of one or both national examinations.

EXAMINATION RESULTS (CONT'D)

05936D

LAND SURVEYORS *

FUNDAMENTALS OF
LAND SURVEYING

PRINCIPLES AND
PRACTICES OF
LAND SURVEYING

| | | |
|-------------------------|---|---|
| * Allen, Louis F. | P | P |
| * Berg, Gary L. | P | P |
| Braden, Michael D. | F | P |
| * Culp, Herbert L. | P | P |
| Delbridge, Randy S. | F | P |
| Padilla, Valentine M. | F | P |
| Thiessen, Ray E. | F | P |
| * Wisniewski, Daniel C. | P | P |

* Includes only applicants evaluated prior to October, 1982 examinations and only requiring successful completion of one or both national examinations.

APRIL 1983 ENGINEER IN TRAINING EXAMINATION RESULTS

05936E

| | |
|-------------------------|---|
| Ahrendt, Terry | |
| Aldridge, Richard E. | P |
| Allen, Roger A. | P |
| Amadori, Michael A. | P |
| Armas, John J. | F |
| Attar, Abolghasem | F |
| Baca, Diana M. | P |
| Ballesteros, Louis C. | P |
| Barbes, Mircia | F |
| Batt, Alexander D. | P |
| Bauer, Peter L. | P |
| Behnejad, Mohammad R. | P |
| Bell, Christopher A. | P |
| Belt, Denise E. | P |
| Bement, Eric D. | P |
| Berghian, John V. | P |
| Biniazan, Kourosh | F |
| Blaszuk, Christopher R. | P |
| Bloxham, Daniel L. | P |
| Bonfill, Michelle E. | P |
| Bowyer, Michael D. | P |
| Brand, Scott Russell | P |
| Broughton, Stacy L. | P |
| Buchli, Keith R. | F |
| Bugh, Charles D. | F |
| Buhr, Karl H. | P |
| Butt, Robert S. | P |
| Cao, Thong V. | P |
| Cargill, John G. | P |
| Chavez, Dorothy R. | F |
| Cluff, Kevin D. | P |
| Coombe, William D. | P |
| Cramer, Stewart G. | P |
| Cronin, Marian F. | P |
| Culver, Kerry J. | P |
| Curley, Valerie J. | F |

APRIL 1983 ENGINEER IN TRAINING EXAMINATION RESULTS (CONT'D)

| | |
|-------------------------|---|
| Chow, Philip S. | P |
| David, Jack L. | P |
| DeLuca, James | P |
| De Santos, Jose R. | F |
| Deason, Ralf D. | F |
| Dial, David C. | P |
| Dickinson, Mark Berhard | P |
| Dippre, M. David | P |
| Doyle, Michael Patrick | F |
| Draper, Robert J. | P |
| Duvall, Marc Ashton | P |
| Engle, Thomas E. | F |
| Felke, Timothy J. | P |
| Figueroa, Marco A. | P |
| Finn, Kevin F. | P |
| Fletcher, Russell D. | F |
| Foster, Lloyd C. | P |
| Francis, Timothy | P |
| Frazier, Dobie E. | P |
| Gardner, James M. | F |
| Gardner, Kevin D. | P |
| Gates, Roy A. | P |
| Giorsetti, Peter L. | P |
| Glock, James W. | P |
| Gomez, Rene P. | F |
| Gordon, Pamela L. | F |
| Grinstead, Robert J. | F |
| Guatelli, Andrew T. | P |
| Guenther, Derek P. | P |
| Hampel, Eric | P |
| Hardash, Steve G. | P |
| Harding, Robert S. | F |
| Harwell, Roger B. | P |
| Hazelton, Wesley R. | F |
| Hernandez, Lorenzo M. | F |
| Hinman, Steven N. | P |
| Hollander, Robert A. | P |

APRIL 1983 ENGINEER IN TRAINING EXAMINATION RESULTS (CONT'D)

05936G

| | |
|------------------------|---|
| Hoover, Robert L. | P |
| Howell, Martin K. | P |
| Iannuzzi, Mark P. | P |
| Jacobson, Laura B. | P |
| Jalali, Hamid | F |
| Jamison, James P. | P |
| Jensen, Gerald G. | F |
| Johnson, John M. | F |
| Johnson, Larry Richard | P |
| Johnson, Stanley J. | P |
| Kansakar, Rajendra K. | P |
| Karimnassae, Ali | F |
| Kassraian, Mahmoud | F |
| Keeper, Debbie A. | P |
| Kenyon, David P. | P |
| Koh, Yuzung, J. | F |
| Krane, Steven A. | P |
| Krochmalny, Andrew J. | P |
| La Mantia, Philip | P |
| Landa, Mark | P |
| Landis, David A. | F |
| Landsborough, J. R. | P |
| Larimore, Stephen W. | P |
| Lattin, Doug | P |
| Lau, Anthony | F |
| LeCompte, Robert S. | P |
| Leinenwever, Mark | F |
| Lekacz, Eric E. | P |
| Lester, Billy R. | F |
| Lodge, James R. | P |
| Lowe, Philip O. | F |
| Luebkin, Dennis | F |
| Lund, Barbara | P |
| Lyall, Albert N. | F |
| Lydick, Henry R. | P |
| McCarthy, Dennis R. | P |
| McKune, Carter L. | F |

APRIL 1983 ENGINEER IN TRAINING EXAMINATION RESULTS (CONT'D)

05936H

| | |
|------------------------|---|
| Mahoney, Timothy D. | P |
| Marquez, Edmundo | F |
| Martin, Stephen A. | P |
| Matheus, Jorge | P |
| Mathis, Tony C. | P |
| Maxwell, Mark E. | P |
| Meade, Robert L. | P |
| Meaker, Donald L. | P |
| Meyer, Timothy L. | P |
| Miller, Barry K. | P |
| Miller, Daniel A. | P |
| Miller, John S.F. | P |
| Miller, Lisa J. | F |
| Miller, Peter S. | P |
| Moffett, Stephen D. | P |
| Monteverde, Armando A. | F |
| Moody, Jack | P |
| Morrison, Timothy D. | P |
| Morton, Kathleen C. | P |
| Neal, Clifford A. | P |
| Nelson, Patricia K. | P |
| Newkirk, Paul H. | P |
| Nyhuis, Bruce W. | P |
| Olson, Robert O. | P |
| Osborn, Douglas R. | P |
| Pageau, Steve R. | P |
| Paige, Charles H. | F |
| Pennington, Gary W. | F |
| Peters, Douglas E. | P |
| Phan, Thanh Q. | P |
| Ploplis, Anthony F. | F |
| Pontious, Ned L. | P |
| Prinsze, Onno P. | F |
| Pritchard, Jeffrey A. | P |
| Prochaska, Cory G. | P |
| Pyde, Richard A. | F |
| Rajabi, Sasan | F |
| Rayhel, John M. | P |

APRIL 1983 ENGINEER IN TRAINING EXAMINATION RESULTS (CONT'D)

| | |
|----------------------|---|
| Ramseyer, Linda J. | P |
| Rasmussen, Brad J. | P |
| Rencsok, Joel A. | P |
| Reyes, James O. | F |
| Ritter, John | P |
| Roberts, John E. | P |
| Robertson, James A. | F |
| Robotham, Hugh B. | P |
| Ruiz, David F. | F |
| Saunders, Romona V. | P |
| Savage, Robert W. | P |
| Somers, David J. | P |
| Schulte, Robert | P |
| Schwartz, Philip W. | P |
| Smith, Michael W. | P |
| Smith, Rodney L. | P |
| Smyth, Robert | F |
| Stott, Robert A. | P |
| Struttmann, Joe P. | P |
| Swadener, Pamela S. | P |
| Sweeney, Alice R. | P |
| Szymanski, Karl F. | P |
| Taeger, Robert E. | F |
| Tarr, Michael A. | F |
| Tawney, Michael | F |
| Thompson, Kevin J. | F |
| Tornberg, Ronald D. | F |
| Townsley, Valerie J. | P |
| Trujillo, Robert T. | F |
| Tsay, Jinn S. | P |
| Underwood, Mike D. | P |
| Valle, William S. | P |
| Van Echo, John P. | P |
| Van Horn, Dana L. | P |
| Vasquez, Jorge L. | F |
| Viparina, Mary | P |
| Wachs, Dale S. | F |

APRIL 1983 ENGINEER IN TRAINING EXAMINATION RESULTS (CONT'D)

05936J

| | |
|-----------------------|---|
| Walker, Robert H. | P |
| Walters, Roger D. | F |
| Watson, Patrick J. | F |
| West, Taylor L. | P |
| Wiedrich, Kim | P |
| Wierzal, Robert | P |
| Williams, Bruce E. | F |
| Williams, Clifford A. | F |
| Wood, John D. | P |
| Yacoub, Mohamad | P |
| York, Jeff | P |
| Zeurcher, Duane R. | P |

GEOLOGIST IN TRAINING EXAMINATION RESULTS

| | |
|-------------------|---|
| Mock, Peter | P |
| Todd, Christopher | F |

ELECTRICAL ENGINEERS

| | |
|-----|-------|
| ... | 15648 |
| ... | 15649 |
| ... | 15650 |
| ... | 15651 |
| ... | 15652 |
| ... | 15653 |
| ... | 15654 |
| ... | 15655 |
| ... | 15656 |
| ... | 15657 |
| ... | 15658 |
| ... | 15659 |
| ... | 15660 |

MECHANICAL ENGINEERS

| | |
|-----|-------|
| ... | 15670 |
| ... | 15671 |
| ... | 15672 |
| ... | 15673 |
| ... | 15674 |
| ... | 15675 |
| ... | 15676 |
| ... | 15677 |
| ... | 15678 |
| ... | 15679 |
| ... | 15680 |
| ... | 15681 |
| ... | 15682 |
| ... | 15683 |
| ... | 15684 |
| ... | 15685 |
| ... | 15686 |
| ... | 15687 |
| ... | 15688 |
| ... | 15689 |
| ... | 15690 |
| ... | 15691 |
| ... | 15692 |
| ... | 15693 |
| ... | 15694 |
| ... | 15695 |
| ... | 15696 |
| ... | 15697 |
| ... | 15698 |
| ... | 15699 |
| ... | 15700 |

SANITARY ENGINEER

| | |
|-----|-------|
| ... | 15701 |
|-----|-------|

STRUCTURAL ENGINEERS

| | |
|-----|-------|
| ... | 15702 |
| ... | 15703 |
| ... | 15704 |
| ... | 15705 |

GEOLOGISTS

| | |
|-----|-------|
| ... | 15706 |
| ... | 15707 |
| ... | 15708 |

PROFESSIONAL GRANTED LIST - BY EXAMINATION

05937 A

CHEMICAL ENGINEERS

Bhargava, Prabhat 15584
 Davis, John D. 15585
 Maxwell, Charles H. 15586

CIVIL ENGINEERS

Alexander, Douglas E. 15587
 Altuna, Larry M. 15588
 Ash, Nancy K. 15589
 Brathovde, Robert D. 15590
 Bryce, Michael R. 15591
 Deatherage, James D. 15592
 Despain, Ronald A. 15593
 Gavan, Mark T. 15594
 Gifford, Stephen V. 15595
 Gill, Edward J. 15596
 Hanna, Gary L. 15597
 Hanshaw, Mark A. 15598
 Iannarino, Robert J. 15599
 Kohout, Michael L. 15600
 Larson, Ned Brooks 15601
 Mages, Alfonso A. 15602
 Peace, Edwin E. 15603
 Pease, Scott A. 15604
 Pekala, Michael P. 15605
 Pina, Raul F. 15606
 Richardson, Andrew W. 15607
 Riddle, Jeffrey R. 15608
 Rodriguez, David J. 15609
 Shields, Suzanne J. 15610
 Shobe, Ray W. 15611
 Siewert, Dennis O. 15612
 Sin, Kam K. 15613
 Slate, Lee E. 15614
 Stevens, Christopher R. 15615
 Svor, Nick D. 15616
 Tadano, Richard S. 15617
 Thompson, Clyde K. 15618
 Tineo, Antonio F. 15619
 Trimble, Thomas H. 15620
 Vahl, William S. 15621
 Vail, William R. 15622
 Vandavelde, Michael E. 15623
 Voigt, David R. 15624

ELECTRICAL ENGINEERS

Abdallah, Hanna 15625
 Baker, Michael H. 15626
 Burgett, Michael R. 15627
 Conovaloff, Bill J. 15628
 Crabb, David H. 15629
 Hypse, Mark L. 15630
 Lammer, Jerome E. 15631
 Perry, Wayne H. 15632
 Prichard, Clyde W. 15633
 Shaw, Alex L. 15634
 Webster, Joseph A. 15635

MECHANICAL ENGINEERS

Bloomfield, David C. 15636
 Carragher, Joseph A. 15637
 Deshmukh, Prakash Y. 15638
 Doyle, Dennis M. 15639
 DuChateau, George J. 15640
 Fait, James D. 15641
 Fish, William H. 15642
 Holstein, Jeffery L. 15643
 Howe, William J. 15644
 Humes, John L. 15645
 Lucken, Lawrence S. 15646
 McDaniel, T. E. 15647
 Muir, Martin J. 15648
 Pellouchoud, Daniel 15649
 Riley, Henry W. 15650
 Sherman, Charles E. 15651
 Tay, Kim M. 15652
 Thomas, Richard G. 15653
 Weinbrecht, Edward A. 15654
 West, Edward M. 15655
 Yates, Frank W. 15656

SANITARY ENGINEER

Kuo, Ching-Jey 15657

STRUCTURAL ENGINEERS

Black, Gregory D. 15658
 Johnson, Perry A. 15659
 Malik, Mahmood 15660
 Pereanu, Sebastian C. 15661

GEOLOGISTS

Eastmoore, Norman, Jr. 15662
 von Boeck, Rene G. 15663
 Wilt, Jan Carol 15664

Handwritten note on a piece of paper: "DAILY"

PROFESSIONAL GRANTED LIST - BY EXAMINATION

05937B

15938

LAND SURVEYORS

| | |
|-----------------------|-------|
| Allen, Louis F. | 15665 |
| Berg, Gary L. | 15666 |
| Culp, Herbert L. | 15667 |
| Wisniewski, Daniel C. | 15668 |

CALL TO ORDER

The special meeting of the State Board of Technical Registration, held by telephone conference, was called to order by Chairman Jimmie Nunn at 9:10 a.m. Roll call attendance was taken as follows:

PRESENT:

Jimmie R. Nunn, Chairman
 John Riggs, Vice-Chairman
 Elias Brown, Secretary
 Paul Della, Member
 Donald J. Winkler, Member
 Charles L. O'Bannon, Member
 Stewart R. Palmer, Member

ABSENT:

Rudolph Morris, Member

MEMORANDUM FOR PUBLIC MEMBER, ENGINEERING ENFORCEMENT ADVISORY COMMITTEE - FLAGSTAFF

Chairman Nunn explained that professional members from Flagstaff were appointed February 24, 1982, but no public member from the area was ever appointed. Therefore, he would like to appoint a public member in order to begin enforcement committee meetings in Flagstaff. Such a meeting is planned for September 2, 1983, just prior to the September board meeting. Chairman Nunn listed the names submitted:

Mr. Morris - Michael Hudson, Contractor

Chairman Nunn - Sam Hufford, Attorney; and Lee Rodriguez, Construction

It was moved by Dr. O'Bannon and seconded by Mr. Riggs to appoint Mr. Hufford as the Flagstaff Public Member, with Mr. Hudson as alternate.
MOTION CARRIED.

The meeting adjourned at 9:40 a.m.

MINUTES

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

TELEPHONE CONFERENCE

AUGUST 25, 1983

I. CALL TO ORDER

The special meeting of the State Board of Technical Registration, held by telephone conference, was called to order by Chairman Jimmie Nunn at 9:15 a.m. Roll call attendance was taken as follows:

PRESENT:

- Jimmie R. Nunn, Chairman
- John Riggs, Vice-chairman
- Silas Brown, Secretary
- Paul Cella, Member
- Ronald J. Mlnarik, Member
- Charles E. O'Bannon, Member
- Stewart R. Palmer, Member

ABSENT:

- Robin Morris, Member

II. NOMINATIONS FOR PUBLIC MEMBER, ENGINEERING ENFORCEMENT ADVISORY COMMITTEE - FLAGSTAFF

Chairman Nunn explained that professional members from Flagstaff were appointed February 24, 1982, but no public member from the area was ever appointed. Therefore, he would like to appoint a public member in order to begin enforcement committee meetings in Flagstaff. Such a meeting is planned for September 8, 1983, just prior to the September Board meeting. Chairman Nunn listed the names submitted:

Ms. Morris - Michael Hudnall, Contractor

Chairman Nunn - Ben Hufford, Attorney; and Lee Pedrick, Construction

It was moved by Dr. O'Bannon and seconded by Mr. Riggs to appoint Mr. Hufford as the Flagstaff Public Member, with Mr. Hudnall as alternate. MOTION CARRIED.

The meeting adjourned at 9:40 a.m.

M I N U T E S

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

REGULAR MEETING
SEPTEMBER 9, 1983

I. CALL TO ORDER:

The regular quarter-annual meeting of the State Board of Technical Registration held at the Engineering Building, Room 206, Northern Arizona University, Flagstaff, Arizona, was called to order by Chairman Jimmie Nunn at 9:30 a.m.

Roll call attendance was taken as follows:

| | | | |
|----------|-----------------------------|---------|------------------------------|
| PRESENT: | Jimmie R. Nunn, Chairman | ABSENT: | John B. Riggs, Vice-Chairman |
| | Silas Brown, Secretary | | |
| | Paul W. Cella, Member | | |
| | Ronald J. Mlnarik, Member | | |
| | Robin A. Morris, Member | | |
| | Charles E. O'Bannon, Member | | |
| | Reid Penland, Member | | |
| | Stewart R. Palmer, Member | | |

| | | |
|---------|-------------------|-----------------|
| GUESTS: | Eugene V. Skelley | Philip Borgo |
| | R. J. Fish | J. E. Gust, Jr. |
| | M. K. Householder | Carl Cawood |
| | Joseph Gust | |

Those present constituted a quorum

II. EXECUTIVE SESSION:

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the Board convene in executive session. MOTION CARRIED.

The Board reconvened in open session at 11:40 a.m.

III. ENFORCEMENT:

A. Case Action:

1. C80-65 BTR vs. Robert Fairburn, Architect #5017 - Alleging respondent copied parts of the complainant's design without prior permission.

It was moved by Mr. Cella and seconded by Mr. O'Bannon that the case be dismissed. MOTION CARRIED.

2. C80-72 BTR vs. Earle L. Slyder, RLS #4128 - Alleging that the respondent conducted a survey that did not comply with certain land surveying standards and practices.

It was moved by Mr. Cella and seconded by Mr. Palmer to terminate the proceedings, based on the receipt of the final peer review report required by the consent order. MOTION CARRIED.

3. C80-107 BTR vs. Wilson Austin, RLS #4055 - Alleging incompetence and negligence in conducting a survey.

It was moved by Mr. Cella and seconded by Dr. O'Bannon that the reviewer, Mr. Luckow, be asked to write a supplemental report indicating the proper steps that should have been taken to affect the survey, and further, that the Board obtain an additional opinion from another disinterested land surveyor and it be brought to the Board at the next meeting. MOTION CARRIED.

4. C81-60 BTR vs. Phil Combs, Architect #11206 - Alleging aiding and abetting.

It was moved by Mr. Cella and seconded by Mr. Palmer to dismiss the case; no grounds found to warrant disciplinary action. MOTION CARRIED.

5. C82-005 BTR vs. William Bruder, Architect #9442 - Alleging incompetence and negligence in failing to adequately carry out inspections and failed to see that corrections were made in a timely manner when problems were discovered.

It was moved by Mr. Cella and seconded by Mr. Palmer to dismiss the case; no grounds found to warrant disciplinary action. MOTION CARRIED.

6. C82-003 BTR vs. John Grist, Architect #7614 - Alleging unstamped commercial structure plans.

It was moved by Mr. Cella and seconded by Mr. Palmer to dismiss the case; no grounds found to warrant disciplinary action. MOTION CARRIED.

7. C83-005 BTR vs. William Wilde, Architect #1209 - Alleging incompetence and negligence in the design of the Benson City Hall. Mr. Palmer declared a conflict of interest.

It was moved by Mr. Cella and seconded by Reid Penland that the case be dismissed. MOTION CARRIED.

Regular Board Meeting
September 9, 1983

- 8. C83-006 BTR vs. Donald Green, P.E. (Civil) #9995 - Alleging respondent performed work outside his area of registration. (Respondent made statements relating to cost and appearance.)

It was moved by Mr. Cella and seconded by Mr. Brown to dismiss the case. MOTION CARRIED.

- 9, 10, 11 & 12. MA82-005 BTR vs. Paul Timberman; MA82-019 BTR vs. Dirk Dewitt; MA82-035 BTR vs. Richard E. Hamstead; and MA82-065 BTR vs. Joseph Colianno - Non-registrants.

These cases were presented to the Board for information only; no enforcement action was necessary.

B. Enforcement Activity Report:

Mr. Dalrymple reported that as of the end of August, the Board has a total of 113 miscellaneous activity cases and 55 case reports under investigation.

C. Discussion of Aiding and Abetting:

Mr. Palmer discussed the problem of registrants stamping drawings not prepared by registrants or their bona fide employees. He expressed concern regarding the stamping of drawings that are not being prepared by registrants or their employees. He reviewed what he had found in both the rules and the code regarding stamping and sealing work. Ms. Morris suggested that staff write guidelines and issue a history of enforcement history of cases coming before the Board. She stated that staff should write hypothetical cases and issue a short paragraph stating how the staff would approach it and what they would be looking for. She felt there should be a disclaimer at the bottom saying: "This is no assurance that what you are doing is going to be approved or disapproved, and there is no reason to rely on this; it is no more than a purely advisory position statement of people who work with these problems every day." She suggested that staff should draft one or two hypothetical cases, give a description of how they would approach the problem and issue the disclaimer stating this is intended to provide a guideline; there is no assurance that what is done will be reviewed this way but the Board advises that you look at the example and try to proceed accordingly.

Mr. Sheets suggested that the advisory committee help to draft hypothetical cases. Mr. Sheets stated that you have to look at each case individually and decide what is significant.

Mr. Palmer stated that anything that is stamped should be prepared by the registrant or his bona fide employee. He felt people governed by our code and rules should actually prepare a set of drawings or plans from scratch.

Regular Board Meeting
September 9, 1983

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Mr. Palmer requested that the Advisory Committee come up with two hypothetical cases and present it to the Board for their approval by the December Board meeting. Then after it is accepted by the Committee and the Board that it be submitted out to the field so that they know what is going on. Mr. Nunn stated that he did not feel we needed a motion on it, but that the new chairman will take it for action and Mr. Dalrymple was requested to propose the request to the committees.

IV. EVALUATION COMMITTEES, REPOTS AND ADOPTION OF REPORTS:

1. It was moved by Mr. Brown and seconded by Dr. O'Bannon that the following applicants listed on pages 644⁸ through 645⁰ having satisfied the Committees that they are fully qualified to receive registration in Arizona under A.R.S. 32-122.01 and A.R.S. 32-126, are hereby recommended for registration. MOTION CARRIED.
 - a. It was moved by Mr. Brown and seconded by Dr. O'Bannon that Architects Alexander through Wyckoff be recommended for registration. MOTION CARRIED.
 - b. It was moved by Mr. Brown and seconded by Dr. O'Bannon that Landscape Architects Antink and Devine be recommended for registration. MOTION CARRIED.
 - c. It was moved by Mr. Brown and seconded by Dr. O'Bannon that Chemical Engineers Jones and Nulty be recommended for registration. MOTION CARRIED.
 - d. It was moved by Mr. Brown and seconded by Dr. O'Bannon that Civil Engineers Chmelir through Troxel; Electrical Engineers Clark and Riley; Mechanical Engineers Padgett and Seibert; Mining Engineer Yopps; Structural Engineers Nowak through Rose; be recommended for registration. MOTION CARRIED.
 - e. It was moved by Mr. Brown and seconded by Dr. O'Bannon that Land Surveyors Allocco through Zeller be recommended for registration. MOTION CARRIED.
 - f. It was moved by Mr. Brown and seconded by Mr. Penland that Geologists Campbell through Hammock (recommendation on Hammock contingent upon receipt of verifying data) be recommended for registration. MOTION CARRIED.

Ms. Ross explained the problem that the Board has experienced in getting the certification information from AIPG. She informed the Board that their motion will not grant registration to Mr. Hammock until the receipt of verifying data.

Regular Board Meeting
September 9, 1983

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V. CERTIFICATION OF EXAMINATION RESULTS:

A. Professional Applicants:

1. Land Surveyors:

- a. Grading of local part, professional examination - establishment of minimum passing raw score. Mr. Nunn requested Dr. O'Bannon to report on the grading curve that was used as a passing score. Dr. O'Bannon explained that he was asked to do a statistical analysis of the land surveyors exam. He stated that he had plotted data and the data showed that it was heavily skewed towards the bottom of the scale and it was not a normal distribution. Based on this information, and having discussed the case with Dr. Grogher, who is an expert in statistical analysis, he recommended that the Board take the score of 52.0 as a passing score in the land surveyor exam. Dr. O'Bannon stated that this is a median grade and the mean is very close to it. Mr. Sheets requested that the Minutes reflect that. Ms. Ross stated that examination number 7028 should be added as it was inadvertently left off, with the score of 44.07. It was moved by Dr. O'Bannon that the Board accept 52.0 as the passing score in the land surveyor's examination. It was seconded by Mr. Brown. MOTION CARRIED.
- b. Certification - NCEE and Local Examination results (page 5940). It was moved by Dr. O'Bannon and seconded by Mr. Palmer to accept the scores as shown in executive session. MOTION CARRIED.

Ms. Ross stated that there were two scores shown as passing that should have been shown as failing; a 50.8 and a 51.4, numbers 7017 and 7020; those corrections should be noted on the Board's confidential materials. Dr. O'Bannon amended his motion to accept the changes with Mr. Palmer agreeing to it. The Board accepted the motion as amended.

2. Architects - The Board has no scores so this item was removed from the agenda. Ms. Ross suggested that the Board meet in October to qualify the exam.

B. In-Training Applicants:

1. Land Surveyors-in-training - It was moved by Mr. Palmer and seconded by Mr. Brown to confirm the scores previously adopted for Carol Ann Hickey. MOTION CARRIED.
2. Architects-in-training - The Board has no scores so this item was removed from the agenda.
3. Landscape Architects-in-training - The Board has no scores so this item was removed from the agenda.

Regular Board Meeting
September 9, 1983

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VI. GRANTING OF REGISTRATION:

A. Professional Registrations (Pages 5946 through 5951)

1. Ms. Ross requested that the name of Larry B. James, listed on Page 20 of the agenda, should be deleted.
2. It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the Board grant registration to the Architects, Mr. Alexander through Mr. Wyckoff, with appropriate numbers as shown. MOTION CARRIED.
3. It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the Board grant registration to Landscape Architects Antink and Devine, with appropriate numbers as shown. MOTION CARRIED.
4. It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the Board grant registration as Chemical Engineers to Jones and Nulty, with appropriate numbers as shown. MOTION CARRIED.
5. It was moved by Dr. O'Bannon and seconded by Mr. Brown that the Board grant registration as Civil Engineers to Mr. Chmelir through Mr. Troxel, with appropriate numbers as shown. MOTION CARRIED.
6. It was moved by Dr. O'Bannon and seconded by Mr. Brown that the Board grant registration as Electrical Engineers to Mr. Clark through Mr. Riley, with appropriate numbers as shown. MOTION CARRIED.
7. It was moved by Dr. O'Bannon and seconded by Mr. Brown that the Board grant registration as Mechanical Engineers to Mr. Padgett and Mr. Seibert, with appropriate numbers as shown. MOTION CARRIED.
8. It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the Board grant registration to Mr. Yopps as a Mining Engineer, with appropriate number as shown. MOTION CARRIED.
9. It was moved by Dr. O'Bannon and seconded by Mr. Brown to grant registration to Mr. Nowak through Mr. Rose as Structural Engineers, with the appropriate numbers as shown. MOTION CARRIED.
10. It was moved by Dr. O'Bannon and seconded by Mr. Palmer to grant registration to Mr. Allocco through Mr. Zeller as Land Surveyors, with appropriate numbers as shown. MOTION CARRIED.
11. It was moved by Dr. O'Bannon and seconded by Mr. Palmer to grant registration to Mr. Bennett through Mr. Speth, excluding Mr. James, as Land Surveyors, with appropriate numbers as shown. MOTION CARRIED.

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Regular Board Meeting
September 9, 1983

12. It was moved by Dr. O'Bannon and seconded by Mr. Palmer to grant registration as Geologists to Ms. Campbell through Mr. Wallendorf, with appropriate numbers as shown. MOTION CARRIED.
13. It was moved by Dr. O'Bannon and seconded by Mr. Palmer to grant Geologist registration to Mr. Hammock, with the appropriate number as shown, upon receipt of verifying data. MOTION CARRIED.

B. In-Training Registrations (Page 21):

1. It was moved by Dr. O'Bannon and seconded by Mr. Palmer to grant Engineers-in-training status to Mr. Blanco through Ms. Wilson, with appropriate numbers as shown. MOTION CARRIED.

VII. With the permission of the Board members, item VII was moved to the end of the meeting.

VIII. BOARD APPOINTMENTS AND STAFF REQUIREMENTS - DISCUSSION:

Mr. Nunn discussed the appointment of Reid Penland by the Governor as the Land Surveyor member of the Board and the reappointment of four other Board members. Mr. Nunn informed the public of Ms. Judi Ross's resignation as the Executive Director. It was moved by Dr. O'Bannon and seconded by Mr. Brown that Mr. Ronald Dalrymple be appointed to serve as Acting Executive Director during the interim; he encouraged three of the staff members to apply for the position - Mr. Dalrymple, Mr. Rosenhan and Ms. Douglas. Mr. Nunn stated that the position will be nationally advertised. Mr. John Riggs will set up a search committee, have a preliminary screening and the Board will then review the last few applicants. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Brown that the Board express their thanks to Ms. Ross for her outstanding work in the two years that she served as Executive Director. He feels that the Board owes her a debt of thanks. MOTION CARRIED.

IX. BUDGET COMMITTEE REPORT:

- A. 1983-84 Budget - Ms. Ross discussed the budget report with the Board. The budget has been submitted to the Budget Office. As of the end of June, 1983 the Board had \$214,272 in the Technical Registration Fund; we are anticipating additional revenues of \$400,845 for total available revenues of over \$615,000. Our appropriation for this fiscal year is \$368,100. If you consider available reserves we have, we can estimate a surplus at the end of FY 84 of \$247,000.
- B. 1984-85 Appropriations Request - In FY 85 we anticipate revenues of \$413,000. We are requesting a total budget at this point of \$407,271. She informed the Board of two new items that are being requested as part of the budget; Item #1, an Investigator III to complement our investigation program; Item #2, \$5,000 for professional and outside services to acquire professional assistance in accounting. We need some accounting service assistance as we have no expertise on staff.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer to adopt the budget as prepared. MOTION CARRIED.

X. PUBLIC COMMENT:

- A. R. J. Fish, Land Surveyor - Mr. Fish discussed the Land Surveying Examination and requested some guidelines as to what the Board would like to have the examination include. The Board stated that for the next examination they would like the Examination Committee to keep within the same examination framework and the Board would wait until the examination in April for revision.
- B. Others - Professor Borgo - Professor Borgo wanted to know if the examinee would be allowed to take the old examination home to study. Ms. Ross informed Professor Borgo that in June the Board had voted not to allow the examination to be removed from the Board's jurisdiction. Professor Borgo expressed strong dissatisfaction with the Board and stated that they are allowing the lawyers to run the Board. Jimmie Nunn stated that the Board had discussed the examination and they had decided not to allow the examination to be taken home by the examinee since no other examination that the Board gives is allowed to be taken home.

XI. LEGISLATIVE COMMITTEE REPORT - 1984 LEGISLATIVE DIRECTIONS:

Ms. Ross stated that the Board should concentrate on the application process. She stated that it has been suggested that we do not introduce any legislation this year since we have introduced bills in the last two sessions.

XII. EXECUTIVE DIRECTOR'S REPORT - Judi Ross:

A. Agency Requirements:

- 1. Automation - Ms. Ross stated that the Board does have money for automation, and at the present time staff is exploring a number of ways the Board can go. She stated that we need the ability to automate all of the records, the micro-computer would not really be able to handle our needs; she recommended that we either go with a shared computer in the Occupational Licensing Building or a time sharing operation. She explained the advantages and disadvantages of each option.
- 2. Accounting system is extremely weak. She stated that it must be very carefully monitored. We have no staff with that expertise to handle the accounting books.
- 3. Filing system is not up to par; it is getting better, but we still have to find a better system.

- B. Rules and New Statutory Provisions - Implementation - We are using the new forms now and are working on the instructions. They are now in force. She discussed the impact regarding the grandfather clause for land surveyors.

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- C. Computer-Assisted Legal Research - Mr. Sheets discussed computer-assisted legal research. He requested that this agency permit up to a maximum of \$900 be used if it is necessary. It was moved by Dr. O'Bannon and seconded by Ms. Morris to authorize up to a maximum of \$1,000 be spent. MOTION CARRIED.
- D. NCEE, CLEAR Meetings - Ms. Ross reported on the NCEE and CLEAR meetings that she attended and the valuable information obtained. She strongly recommended that the next Executive Director attend.

XIII. OTHER BUSINESS:

- A. AIPG Certificate of Qualification - Procedures - Ms. Ross discussed the problem she has experienced in getting information about an applicant from AIPG. Mr. Brown stated that he would review the problem with members here and rectify the matter as soon as possible.
- B. NCEE Civil/Sanitary/Structural Examination - Dr. O'Bannon spoke in opposition to the new examination as it seemed to be directed to sanitary and structural engineering, and civil engineering involves a lot more than sanitary and structural. He believes that it is very restrictive on what civil engineering is and believes that we should have a separate examination for civil, sanitary and structural. Ms. Ross suggested that the Board review the test from last year. Ms. Douglas will submit a copy to the Board as soon as possible.
- C. Landscape Architecture Examination - Discussion of California examination - Mr. Mlnarik discussed the problems California has experienced with CLARB examinations. He stated that CLARB is doing an in-depth study of their examination.

*VII. ELECTION OF OFFICERS:

- A. It was moved by Dr. O'Bannon and seconded by Mr. Palmer to nominate Mr. Riggs as Chairman of the Board. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Brown that nominations be closed. MOTION CARRIED.

- B. It was moved by Dr. O'Bannon and seconded by Mr. Mlnarik that Mr. Brown be nominated as Vice chairman. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that nominations be closed. MOTION CARRIED.

- C. It was moved by Dr. O'Bannon and seconded by Mr. Brown that Mr. Palmer be nominated as Secretary of the Board. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Mlnarik that nominations be closed. MOTION CARRIED.

*Item carried over from page 8 of the minutes.

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September 9, 1983

D. It was moved by Dr. O'Bannon and seconded by Mr. Brown that the Board express its gratitude for Mr. Nunn's service as Chairman of the Board this last year during these difficult times and express the Board's thanks and appreciation for all of his hard labor. MOTION CARRIED.

XIV. ADJOURNMENT:

It was moved by Dr. O'Bannon and seconded by Mr. Brown to adjourn the meeting at 4:45 p.m. MOTION CARRIED.

The Evaluation Committees reviewed the following applicants and voted to recommend the following applicants, having satisfied the Committees that they are fully qualified to receive registration in Arizona under A.R.S. 32-122.01 and A.R.S. 32-126, are hereby recommended for registration:

ARCHITECTS

| | |
|--------------------|--------|
| Alexander, Bartley | 83-578 |
| Arkus, Barry A. | 83-272 |
| Brown, Harold W. | 83-451 |
| Crane, Richard | 83-437 |
| Das, Carlman | 83-697 |
| Deader, Raymond | 83-400 |
| Davis, Edward | 83-495 |
| Dawson, Frederick | 83-187 |
| Henderson, Joe | 83-632 |
| Hicks, Donald | 83-409 |
| Hicks, James | 83-337 |
| Hitcher, John | 83-481 |
| Honey, James | 83-584 |
| Kauf, Michael | 83-613 |
| McIntosh, Larry | 83-502 |
| Moore, Robert | 83-597 |
| Nordica, Frank | 83-559 |
| Olson, Dan | 83-604 |
| Olson, Jack | 83-579 |
| Olson, Don | 83-576 |
| Orsini, John | 83-560 |
| Orsini, Sidney | 83-522 |
| Reilly, Ray | 83-493 |
| Reilly, Thomas | 83-566 |
| Reilly, James | 83-520 |
| Rosen, William | 83-540 |
| Sell, William | 83-683 |
| Shultz, Robert | 83-385 |
| Stiles, Mark | 83-549 |
| Phillips, William | 83-610 |
| Pickard, David | 83-508 |
| Proffitt, Donald | 83-463 |

ARCHITECTS

| | |
|--------------------|--------|
| Priddy, Michael | 83-275 |
| Schepanski, Roland | 83-690 |
| Todd, J. Stewart | 83-605 |
| Tolman, Samuel | 83-620 |
| Voss, Ritch | 83-319 |
| Waddington, Edward | 83-512 |
| Webb, Clyde | 83-430 |
| Wolken, Terry | 83-514 |
| Wyckoff, Bruce | 83-382 |

LANDSCAPE ARCHITECTS

| | |
|-----------------|--------|
| Antink, Greg | 83-369 |
| Reville, Sandra | 83-466 |

CIVIL ENGINEERS

| | |
|--------------|--------|
| Jones, John | 83-449 |
| Rully, James | 83-517 |

TO: Board of Technical Registration

FROM: The Phoenix and Tucson Evaluation Committees
Chairmen, Brown, Palmer
Members, Cella, Riggs, Mlnarik, O'Bannon, and Nunn

SUBJECT: Evaluation of Applicants, August 25, 1983

The Evaluation Committees reviewed the following applicants and makes to the Board the recommendations shown regarding registration in Arizona.

- The following applicants, having satisfied the Committees that they are fully qualified to receive registration in Arizona under A.R.S. 32-122.01 and A.R.S. 32-126, are hereby recommended for registration:

ARCHITECTS

| | |
|--------------------|--------|
| Alexander, Hartley | 83-528 |
| Berkus, Barry A. | 83-272 |
| Brown, Harold W. | 83-451 |
| Ciceri, Richard | 83-437 |
| Cox, Carlman | 83-697 |
| Crowder, Raymond | 83-480 |
| Davis, Robert | 83-485 |
| Dirksen, Fredrick | 83-157 |
| Federico, Joe | 83-482 |
| Felts, Donald | 83-409 |
| Fields, James | 83-337 |
| Fletcher, John | 83-481 |
| Finney, James | 83-584 |
| Gould, Michael | 83-613 |
| Hallenbeck, Harry | 83-502 |
| Holmes, Robert | 83-597 |
| Homolka, Frank | 83-559 |
| Johns, Dean | 83-504 |
| Jones, John | 83-529 |
| Logan, Donn | 83-536 |
| Luttrell, John | 83-560 |
| Lyons, Sidney | 83-527 |
| Makela, Roy | 83-491 |
| Moore, Thomas | 83-566 |
| Morter, James | 83-520 |
| Muchow, William | 83-548 |
| Neel, William | 83-663 |
| Nuttall, Robert | 83-388 |
| Peika, Maris | 83-549 |
| Phillips, William | 83-666 |
| Pickard, David | 83-558 |
| Prochaska, Donald | 83-463 |

ARCHITECTS

| | |
|--------------------|--------|
| Prudy, Michael | 83-370 |
| Schapanski, Roland | 83-698 |
| Todd, J. Stuart | 83-505 |
| Tolman, Samuel | 83-550 |
| Voss, Ritch | 83-339 |
| Waddington, Edward | 83-202 |
| Webb, Clyde | 83-430 |
| Wobken, Terry | 83-551 |
| Wyckoff, Bruce | 83-322 |

LANDSCAPE ARCHITECTS

| | |
|----------------|--------|
| Antink, Glen | 83-369 |
| Devine, Sandra | 83-466 |

CHEMICAL ENGINEERS

| | |
|--------------|--------|
| Jones, John | 83-449 |
| Nulty, James | 83-512 |

CIVIL ENGINEERS

| | |
|----------------------|--------|
| Chmelir, John | 83-543 |
| Clendening, Herbert | 83-309 |
| Corneille, Richard | 83-483 |
| Des Jardin, Donald | 82-544 |
| Haas, Herbert | 83-423 |
| Householder, Michael | 82-810 |
| Lathrop, Robert | 82-507 |
| Lee, Young | 83-286 |
| Rengel, Michael | 83-213 |
| Seeger, John | 83-493 |
| Troxel, David | 83-447 |

ELECTRICAL ENGINEERS

| | |
|-----------------|--------|
| Clark, David | 83-320 |
| Khiaban, Davoud | 83-557 |
| Riley, Lowell | 83-531 |

MECHANICAL ENGINEERS

| | |
|------------------|--------|
| Padgett, Linwood | 83-506 |
| Seibert, Richard | 83-137 |

MINING ENGINEER

| | |
|---------------|--------|
| Yopps, Jerome | 83-483 |
|---------------|--------|

STRUCTURAL ENGINEERS

| | |
|-----------------|--------|
| Nowak, Robert | 83-405 |
| Patel, Nandu | 83-524 |
| Rood, Allen | 83-428 |
| Rose, Ellsworth | 83-493 |

LAND SURVEYORS

| | |
|-----------------|--------|
| Allocco, David | 83-588 |
| Anderson, David | 83-656 |
| Arollo, Abram | 83-681 |
| Bahian, Peter | 83-589 |
| Beatty, Joseph | 83-627 |
| Brooks, Arthur | 83-677 |
| Brooks, Thomas | 83-628 |
| Clark, John | 83-703 |
| Coe, John | 83-700 |

LAND SURVEYORS

| | |
|----------------------|--------|
| Crawford, David | 83-685 |
| Cunliffe-Owen, Roger | 83-715 |
| Davis, Douglas | 83-631 |
| Delton, James | 83-590 |
| DeMuth, Britt | 83-636 |
| Ditzler, Harold | 83-731 |
| Duval, James | 83-645 |
| Enright, Richard | 83-629 |
| Ferris, Don | 83-632 |
| Francom, Paul | 83-654 |
| Friedl, Frederick | 83-701 |
| Gatlin, Clifford | 83-603 |
| Gervasio, Joseph | 83-710 |
| Glass, Clinton | 83-637 |
| Gomez, Angel | 83-647 |
| Gookin, Thomas | 83-605 |
| Gookin, William | 83-602 |
| Hamm, M. | 83-665 |
| Hatton, Roger | 83-582 |
| Heiniger, Gordon | 83-607 |
| Holben, Randon | 83-716 |
| Hopkins, Louie | 83-682 |
| Howard, Robert | 83-714 |
| Hubbard, Keith | 83-655 |
| Hughes, Robert | 83-713 |
| Hunsaker, Jan | 83-604 |
| Hunt, Norman | 83-622 |
| Jensen, Hans | 83-616 |
| Joplin, Billy | 83-695 |
| Keegan, John | 83-717 |
| Keller, Harry | 83-664 |
| Kienitz, Robert | 83-644 |
| Kirby, Joseph | 83-687 |
| Kracht, Jeffrey | 83-662 |
| Landis, Robert | 83-678 |
| Lemon, James | 83-704 |
| Lewis, Ezra | 83-709 |
| Lind, Dwight | 83-615 |
| Lynch, John | 83-639 |
| Lyon, Dean | 83-680 |
| McCarthy, William | 83-718 |
| McGill, Joseph | 83-633 |
| McNutt, Robert | 83-707 |
| Mathein, Fredrick | 83-673 |
| May, Frederick | 83-635 |
| Mills, Billie | 83-660 |
| Monihan, David | 83-676 |
| Nauseda, Barry | 83-724 |
| Mouw, Kenneth | 83-619 |

LAND SURVEYORS

| | |
|---------------------|--------|
| Neville, Robert | 83-688 |
| Newcomb, William | 83-653 |
| Palmer, Keith | 83-278 |
| Patel, Ramesh | 83-593 |
| Ritoch, John | 83-648 |
| Rushton, Donald | 83-725 |
| Sandig, Henry | 83-642 |
| Sarvis, Joseph | 83-618 |
| Schmitt, Thomas | 83-708 |
| Scott, Charles | 83-689 |
| Shirley, George | 83-630 |
| Sin, Kam | 83-729 |
| Sing, Charles | 83-611 |
| Sistek, Gerald | 83-712 |
| Slaysman, Melvin | 83-667 |
| Stevenson, Bayard | 83-638 |
| Suthers, George | 83-608 |
| Sweeney, Donald | 83-684 |
| Turner, John | 83-727 |
| Turner, Justin | 83-671 |
| Van Loo, E. | 83-592 |
| Vlastelich, Rudolph | 83-711 |
| Warkowski, James | 83-670 |
| Warne, James | 83-650 |
| West, Edward | 83-620 |
| Winikka, Carl | 83-623 |
| Zeller, Michael | 83-640 |

GEOLOGISTS

| | |
|---------------------|---|
| Campbell, Alice | 83-499 |
| Sveter, Owen | 83-446 |
| Wellendorf, William | 83-547 |
| Hammock, Glenn | 82-703 (recommendation contingent upon receipt of verifying data) |

Part II

Division 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
 Division 11 & 12
 Division 13, 14, 15, 16, 17, 18, 19, 20
 Division 21 & 22
 Division 23, 24, 25, 26, 27, 28, 29, 30
 Division 31 & 32
 Division 33, 34, 35, 36, 37, 38, 39, 40
 Division 41, 42, 43, 44, 45, 46, 47, 48, 49, 50
 Division 51, 52, 53, 54, 55, 56, 57, 58, 59, 60

Part I & II

Part II

Part II

Part II

Part II

Part II

Part I & II

Part II

Part I & II

Part II

Part II

Part II

Part II

Part II

Part I & II

Part II

Part II

Part II

2. The following applicants were evaluated by the evaluation committees and it is recommended to the Board that these individuals be held for the examinations as indicated:

AERONAUTICAL ENGINEER

Chow, Philip 83-587 Part II

ARCHITECTS

| | | |
|----------------------|--------|-----------------------------|
| Baldasari, Gary | 83-273 | Divisions A,B,C,D,E,F,G,H,I |
| Castellana, John | 83-486 | Divisions B & C |
| Elstermeyer, Richard | 83-418 | Divisions A,B,C,D,E,F,G,H,I |
| Hampton, Warren | 83-503 | Divisions B & C |
| Holz, Robert | 83-475 | Divisions A,B,C,D,E,F,G,H,I |
| Hwang, Henry | 83-492 | Divisions B & C |
| Nosewicz, Gerald | 83-318 | Divisions A,B,C,D,E,F,G,H,I |
| Phares, Lawrence | 83-199 | Divisions A,B,C,D,E,F,I |
| Willis, Dennis | 83-410 | Divisions A,B,C,I |

ASSAYER

Bishop, Marshall 83-510 Part I & II

CIVIL ENGINEERS

| | | |
|------------------------|--------|-------------|
| Ahrens, John | 83-541 | Part II |
| Arakaki, Gerald | 83-562 | Part II |
| Bruflat, Steve | 83-563 | Part II |
| Campbell, James | 83-352 | Part II |
| Cline, Edward | 83-456 | Part II |
| Elliott, Larry | 83-496 | Part II |
| Elmqvist, John | 83-041 | Part II |
| Erickson, William | 83-440 | Part I & II |
| Hardy, Robert | 83-433 | Part I & II |
| Hasan, Shafi | 83-465 | Part II |
| Kantardieff, Alexandra | 83-070 | Part I & II |
| Kilargis, Thomas | 83-458 | Part II |
| Kuo, Ching-Jey | 83-472 | Part II |
| Randall, Richard | 83-471 | Part II |
| Roberts, John | 83-435 | Part II |
| Russell, Michael | 83-436 | Part II |
| Shoaf, Dave | 83-390 | Part II |
| Siefert, John | 83-561 | Part II |
| Spadafino, Joseph | 83-431 | Part I & II |
| Szendzielurz, Jan | 83-509 | Part II |
| Turner, Paul | 83-066 | Part II |
| Wilson, Robert | 83-453 | Part II |
| Wojakiewicz, Andrzej | 83-497 | Part II |

ELECTRICAL ENGINEERS

| | | |
|-------------------|--------|-------------|
| Bryant, John | 83-383 | Part I & II |
| Ferenczi, Michael | 83-518 | Part II |
| Lee, Alfred | 83-193 | Part I & II |
| Meyer, Andrew | 83-445 | Part II |
| Park, Gregory | 83-120 | Part II |
| Stafford, Marvin | 82-448 | Part I & II |

MECHANICAL ENGINEERS

| | | |
|---------------------|--------|-------------|
| Ahuja, Kreshan | 82-041 | Part I & II |
| Collins, William | 83-160 | Part I & II |
| Dreveniak, Theodore | 83-288 | Part I & II |
| Hakola, Gordon | 83-056 | Part I & II |
| Miller, John | 83-487 | Part II |
| Pettit, Robert | 83-492 | Part I & II |
| Wiley, Maynard | 83-478 | Part II |

MINING ENGINEERS

| | | |
|-------------------|--------|---------|
| Bazzanella, Frank | 83-188 | Part II |
| Johnson, Ronald | 83-353 | Part II |

SANITARY ENGINEER

| | | |
|---------------|--------|-------------|
| Hilton, Barry | 83-368 | Part I & II |
|---------------|--------|-------------|

STRUCTURAL ENGINEERS

| | | |
|--------------------|--------|------------------|
| Beers, Richard | 83-513 | Part II & III |
| Behnejad, Mohammad | 83-572 | Part II & III |
| Chase, David | 83-385 | Part II & III |
| Nelson, Brian | 83-539 | Part II & III |
| Tribolet, James | 83-425 | Part II & III |
| Zarifi, Ahmand | 83-376 | Part I, II & III |

LAND SURVEYORS

| | | |
|---------------------|--------|-----------------|
| Abell, Frank | 83-379 | Part I, II, III |
| Anderson, Jefferson | 83-468 | Part I, II, III |
| Dixon, Glen | 83-477 | Part I, II, III |
| Frescholtz, James | 81-906 | Part I, II, III |
| Jensen, Craig | 83-179 | Part I, II, III |
| Laird, Patrick | 83-149 | Part I, II, III |
| Luckow, John | 82-420 | Part I, II, III |
| Machen, Mark | 83-346 | Part I, II, III |
| Massey, Perry | 82-022 | Part I, II, III |
| Morgan, James | 81-865 | Part I, II, III |
| Reed, Roy | 81-892 | Part I, II, III |

LAND SURVEYORS

| | | |
|--------------------|--------|-----------------|
| Silvio, Joseph | 82-243 | Part I, II, III |
| Snow, Williams | 83-219 | Part II, III |
| Sutcliffe, Ronald | 83-235 | Part I, II, III |
| Schneider, Douglas | 82-839 | Part I, II, III |

3. The following applicants have requested withdrawal of their application and it is recommended that their applications should be denied with neither prejudice nor refund.

| | |
|-----------------|------------------------|
| Arollo, Abraham | 81-891 (Land Surveyor) |
| Bahian, Peter | 82-200 (Land Surveyor) |
| Giagni, Edward | 83-317 (Architect) |
| Jensen, Hans | 81-872 (Land Surveyor) |
| Landis, Robert | 82-256 (Land Surveyor) |

4. The Committees recommend that the applications of the following candidates be denied for lack of satisfactory experience.

| | | |
|--------------------|------------------------|------------------------------|
| Bartlett, Charles | 83-176 (Mechanical) | Lack of 28 months experience |
| Brazelton, William | 83-285 (Architect) | Lack of 28 months experience |
| Chavez, Kathleen | 83-282 (Civil) | Lack of 6 months experience |
| Easley, William | 83-473 (Mechanical) | Lack of 45 months experience |
| Gorman, Donald | 83-104 (Civil) | Lack of 40 months experience |
| Johnson, Mark | 83-407 (Geological) | Lack of 11 months experience |
| Jonathan Lundstrom | 83-408 (Mechanical) | Lack of 10 months experience |
| Mathein, Richard | 82-265 (Land Surveyor) | Lack of 48 months experience |
| Song, Doreen | 83-542 (Sanitary) | Lack of 17 months experience |
| Taylor, William | 83-375 (Architect) | Lack of 30 months experience |

5. It is recommended that the applications of the following candidates be denied for failure to complete the requirements of the Board within a reasonable length of time.

| | |
|--------------------|------------------------------|
| Afra, Mohammad | 83-231 (Electrical) |
| Chapman, Jeffrey | 82-552 (Civil) |
| Colosa, Joseph | 77-528 (Architect) |
| Conway, William | 82-239 (Landscape Architect) |
| Cook, Arthur | 82-766 (Mechanical) |
| Cosambescu, Carmen | 82-807 (Architect) |

| | |
|---------------------|------------------------|
| Dow, David | 82-303 (Land Surveyor) |
| Fraunhoffer, Herman | 72-135 (Architect) |
| Harding, Robert | 83-109 (Civil) |
| Hastings, Diane | 81-241 (Architect) |
| Howell, David | 82-919 (Electrical) |
| Howell, David | 82-841 (Mechanical) |
| Janssen, Merritt | 80-026 (Architect) |
| Koger, Russell | 82-514 (Mechanical) |

5. Cont'd

| | |
|-------------------|------------------------------|
| Lynch, Robert | 82-97 (Architect) |
| Pickens, Grady | 81-908 (Land Surveyor) |
| Veinus, Janine | 80-015 (Landscape Architect) |
| Whalen, Robert | 82-717 (Electrical) |
| Engelsberg, Susan | 81-88 (AIT) |
| Hope, Gun | 81-15 (LAIT) |
| Lipnick, Randy | 81-13 (LAIT) |

70.75

69.45

67.45

65.45

60.45

60.07

58.85

56.45

53.00

52.65

52.45

52.05

51.45

50.07

49.05

48.45

48.05

45.45

45.05

44.65

44.05

44.45

44.05

43.65

42.45

41.25

39.85

35.6

EXAMINATION NO.

SCORES

| | |
|------|-------|
| 7007 | 84.8% |
| 7018 | 81.8% |
| 7013 | 75.0% |
| 7012 | 70.6% |
| 7019 | 70.0% |
| 7008 | 68.6% |
| 7025 | 67.4% |
| 7024 | 65.4% |
| 7021 | 60.4% |
| 7023 | 60.0% |
| 7026 | 58.8% |
| 7014 | 56.4% |
| 7004 | 53.8% |
| 7009 | 53.6% |
| 7001 | 52.4% |
| 7002 | 52.0% |
| 7017 | 51.4% |
| 7020 | 50.8% |
| 7010 | 49.0% |
| 7032 | 48.6% |
| 7030 | 48.0% |
| 7011 | 45.4% |
| 7031 | 45.0% |
| 7003 | 44.6% |
| 7029 | 44.6% |
| 7034 | 44.4% |
| 7016 | 44.0% |
| 7000 | 43.8% |
| 7033 | 42.4% |
| 7015 | 41.2% |
| 7027 | 39.8% |
| 7022 | 35.6 |

APRIL 1983 LAND SURVEYORS EXAMINATION RESULTS

NAMES

- Bennett, John
- Binge, Michael
- Borrelli, Michael
- Burcham, Marcie
- Clark, Terry
- Earls, Paul
- Fitzgerald, Sidney
- Goodhall, Milton
- Gurney, Benedict

- Hollenbach, Thomas
- Moracek, Jerry
- Rosman, Paul
- Sidler, Robert
- Isaacson, Kenneth
- James, Larry
- Johnson, Merne
- Jones, John
- Kirvan, J.
- Lugo, Fidel
- Lux, Phillip
- McCallister, Michael
- McEwen, Glen
- Pangus, Kirk
- Pidskalny, Robert
- Pool, William
- Shannon, Don
- Smith, Romain
- Speth, Alan
- Stairhime, Walter
- Standhardt, Herbert
- Waughters, Donald
- Weaver, Frank
- Willis, Norman

NAME

Hickey, Cary-Ann

STATE BOARD OF TECHNICAL REGISTRATION

APRIL 11, 1961

CALL TO ORDER

The special meeting of the State Board of Technical Registration, held in Room 240 of the Occupational Licensing Building, 1643 N. Jefferson, Phoenix Arizona was called to order by Chairman John Riggs at 8:30 a.m. Roll call attendance was taken with the following present:

- | | |
|-------------------------------|-----------------------------------|
| PRESENT: John Riggs, Chairman | ABSENT: Stewart Palmer, Secretary |
| Miles Brown, Vice-Chairman | Paul Cella, Member |
| Ronald Minarik, Member | Robin Morris, Member |
| Jimbo Sams, Member | Keld Penland, Member |
| Charles O'Saunen, Member | |

EXECUTIVE SESSION

It was moved by Dr. O'Saunen and seconded by Mr. Minarik to go into Executive Session. Motion Carried.

CERTIFICATION OF EXAMINATION RESULTS

1. Professional Applicants

1. Architectural

It was moved by Mr. Sams and seconded by Mr. Brown that the examination results on pages 277-278 of these minutes be certified starting with Mr. Anderson through Mr. Westall. Motion Carried.

2. Landscape Architectural

It was moved by Mr. Minarik and seconded by Mr. O'Saunen that the examination results on page 279 of these minutes for Landscape Architect be certified starting with Mr. Ashworth through Mr. Woods. Motion Carried.

2. In-training Applicants

1. Architect In-training

It was moved by Mr. Sams and seconded by Mr. Brown that the Architect In-training results as shown on pages 280-281 of these minutes be certified starting with Mr. Almy through Mr. Higbee. Motion Carried.

Landscape Architect In-training

It was moved by Mr. Minarik and seconded by Mr. Sams that the Landscape Architect In-training results as shown on page 282 of these minutes be certified starting with Mr. Adler through Mr. Macfarland. Motion Carried.

M I N U T E S

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

SPECIAL BOARD MEETING

SEPTEMBER 28, 1983

I. CALL TO ORDER

The special meeting of the State Board of Technical Registration, held in Room 140 of the Occupational Licensing Building, 1645 W. Jefferson, Phoenix Arizona was called to order by Chairman John Riggs at 8:55 a.m. Roll call attendance was taken with the following present:

- | | | | |
|----------|----------------------------|---------|---------------------------|
| PRESENT: | John Riggs, Chairman | ABSENT: | Stewart Palmer, Secretary |
| | Silas Brown, Vice-chairman | | Paul Cella, Member |
| | Ronald Mlnarik, Member | | Robin Morris, Member |
| | Jimmie Nunn, Member | | Reid Penland, Member |
| | Charles O'Bannon, Member | | |

II. EXECUTIVE SESSION

It was moved by Dr. O'Bannon and seconded by Mr. Mlnarik to go into Executive Session. Motion Carried.

III. CERTIFICATION OF EXAMINATION RESULTS

A. Professional Applicants

1. Architectural

It was moved by Mr. Nunn and seconded by Mr. Brown that the examination results on pages 5956-5958 of these minutes be certified starting with Mr. Anderson through Mr. Worrall. Motion carried.

2. Landscape Architectural

It was moved by Mr. Mlnarik and seconded by Dr. O'Bannon that the examination results on page 5959 of these minutes for Landscape Architect be certified starting with Mr. Ashworth through Ms. Woods. Motion carried.

B. In-training Applicants

1. Architect In-training

It was moved by Mr. Nunn and seconded by Mr. Brown that the Architect In-training results as shown on pages 5960-5963 of these minutes be certified starting with Mr. Alday through Mr. Zielinski. Motion Carried.

2. Landscape Architect In-training

It was moved by Mr. Mlnarik and seconded by Mr. Nunn that the Landscape Architect In-training results as shown on page 5964 of these minutes be certified starting with Mr. Adler through Ms. Waterfall. Motion carried.

IV. GRANTING OF REGISTRATIONS (pp)

A. Professional Registrations

It was moved by Mr. Nunn and seconded by Mr. Brown that the applicants listed on page 5965-5966 of these minutes Mr. Barnes through Mr. Worrall be granted registration as Architects with the numbers as shown.
MOTION CARRIED.

It was moved by Mr. Mlnarik and seconded by Mr. Nunn that the Landscape Architectural applicants listed on page 5966 of these minutes Mr. Batt through Ms. Woods be granted registration with the numbers as shown.
MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Mr. Brown that the Architect In-training applicants listed on page 5967-68 of these minutes, Mr. Ash through Mr. Zandler be granted registration with numbers as shown.
MOTION CARRIED.

It was moved by Mr. Mlnarik and seconded by Mr. Brown that the Landscape Architectural In-training applicants listed on page 5968 of these minutes, Mr. Kivela through Mr. Phillips be granted registration with numbers as shown. MOTION CARRIED.

PUBLIC COMMENT - Public did not attend.

V. NEW BUSINESS

A. Future agenda items

Mr. Riggs explained to the Board that he has requested Mr. Dalrymple to add "Future Agenda Items" to the agenda to allow Board members to list items that they would like to see on future agendas. Mr. Nunn would like to have the Education Committee added - he feels that it should become an active committee and it could be our link with the universities when the universities are doing something that directly affects the Board. He stated that he has found out that ASU is dropping their Landscape Architect degree from their curriculum. Mr. Riggs stated that this is something that we should give to the education committee and see what they can do as we do license Landscape Architects and part of the requirement is that they have to have a degree as a Landscape Architect. He feels that all the Landscape Architects should voice their objection.

Mr. Brown requested permission to report on the problem the Board has had with AIPG and getting certification from AIPG. He informed the Board that Mr. Dapples would be getting in contact with the staff and set up meetings and they would be contacting Mr. Tannerhill and the Arizona registrants would be straightening Mr. Tannerhill out in regards to verification of geology applicants. He expressed confidence that the Board would be happy with the outcome.

Mr. Mlnarik would like to have the CLARB meeting put on the agenda for the next meeting. Mr. Nunn stated that Dean McJeffrey should be contacted by Mr. Palmer and see about the Landscape Architectural degree being dropped from the university.

VII. APPROVAL OF THE EXECUTIVE SESSION AGENDA

A. September 9, 1983

It was moved by Dr. O'Bannon and seconded by Mr. Brown to approve the executive session minutes. Motion Carried.

VIII. ADJOURNMENT

It was moved by Dr. O'Bannon and seconded by Mr. Brown to adjourn the meeting. Motion Carried.

- Anders
- Barclay, John
- Barland, Joseph
- Barnes, Steyn
- Bent, Donald
- Biddle, Warren
- Bohn, Stephen
- Bullinger, Kevin
- Brown, Robert
- Byrne, Dean
- Byrne, Robert
- Byrne, Alan
- Carter, Randolph
- Chambers, Alan
- Chambers, Benjamin
- Christensen, Richard
- Coan, Howard
- Covello, Joseph
- Cook, Ted
- Deane, Charles
- Dennis, Kent
- Dunn, Clarence
- Evans, Malcolm
- Farrar, Marc
- Fitzpatrick, George
- Floyd, Anthony
- Fry, Daniel
- Gardner, Alfonso
- Gates, Mario
- Gibbs, Gene
- Groff, Steven
- Harris, Fred

1983 PROFESSIONAL LANDSCAPE ARCHITECT EXAMINATION RESULTS

| <u>NAMES</u> | <u>SUBJECT A</u> | <u>SUBJECT B</u> | <u>SUBJECT C</u> | <u>SUBJECT D</u> |
|--------------------|------------------|------------------|------------------|------------------|
| Ashworth, Dean | | | | |
| Batt, Cordell | | | | |
| Bedwell, James | | | | |
| Conte, John | | | | |
| Ensign, Yvette | | | | |
| Flanagan, Gregory | | | | |
| Killip, Thomas | | | | |
| Littlefield, Ted | | | | |
| Miller, James | | | | |
| Presto, Gregory | | | | |
| Ritchie, David | | | | |
| Schonfeld, Richard | | | | |
| Sellers, George | | | | |
| Shadley, Richard | | | | |
| Tomesen, William | | | | |
| Robins, Robert | | | | |
| Wilson, David | | | | |
| Woods, Lori | | | | |

JUNE, 1983 ARCHITECT IN-TRAINING EXAMINATION RESULTS

| NAMES | DIVISIONS | | | | | PARTS PASSED JUNE, 1983 |
|------------------------|-----------|---|---|---|---|----------------------------|
| | D | E | F | G | H | |
| Alday, Abeldardo | | | | | | |
| Agrino, Jose Lito | | | | | | |
| Ash, Charles | | | | | | |
| Athanasios, A | | | | | | |
| Balaban, Luisa | | | | | | |
| Barcus, Barry | | | | | | |
| Barner, Raymond | | | | | | |
| Barrett, James | | | | | | |
| Bell, Dennis | | | | | | |
| Billington, Kym | | | | | | |
| Bright, Rick | | | | | | |
| Brown, Eric | | | | | | |
| Brubaker, Donald | | | | | | |
| Brodney, Joseph | | | | | | |
| Bunte, Scott | | | | | | |
| Burke, Michael | | | | | | |
| Burnette, Wendell | | | | | | |
| Burstein, Raymond | | | | | | |
| Cale, Joel | | | | | | |
| Cantrell, John | | | | | | |
| Capps, Anthony | | | | | | |
| Carrillo-Baldeen, Juan | | | | | | |
| Carnell, Catherine | | | | | | |
| Chapman, Nicole | | | | | | |
| Chavez, Edward | | | | | | |
| Cornelio, Alfred | | | | | | |
| Courtright, Lyne | | | | | | |
| Covillion, J. | | | | | | |
| Curtis, Dustin | | | | | | |
| Davenport, Craig | | | | | | |
| DeLand, Daniel | | | | | | |
| Deane, Jeffrey | | | | | | |

| RANK | NAMES | DIVISIONS | | | | | PARTS PASSED JUNE, 1983 |
|------|----------------------------|-----------|---|---|---|---|----------------------------|
| | | D | E | F | G | H | |
| 1 | Dick, Theodore | | | | | | |
| 2 | Dmachowski, Debra | | | | | | |
| 3 | Dodson, Jan | | | | | | |
| 4 | Dyckes, George | | | | | | |
| 5 | Ehlers, John | | | | | | |
| 6 | Fabbr1, James | | | | | | |
| 7 | Eugenstrom, Eve | | | | | | |
| 8 | Felesky, Dee | | | | | | |
| 9 | Flood, Martin | | | | | | |
| 10 | Forman, Andrea | | | | | | |
| 11 | Franklin, David | | | | | | |
| 12 | Gonzales, William | | | | | | |
| 13 | Grandt, Douglas | | | | | | |
| 14 | Greenwood, Thomas | | | | | | |
| 15 | Groh, Paul | | | | | | |
| 16 | Hall, Michael | | | | | | |
| 17 | Hammond, Hunter | | | | | | |
| 18 | Hand, Ronald | | | | | | |
| 19 | Haney, Weldon | | | | | | |
| 20 | Harris, Kimberly | | | | | | |
| 21 | Beneath, James | | | | | | |
| 22 | Hennessee, Timothy | | | | | | |
| 23 | Berzog, Steven | | | | | | |
| 24 | Hoerner, Peter | | | | | | |
| 25 | Isaacson, Mark | | | | | | |
| 26 | Islas, Oscar | | | | | | |
| 27 | Jones, David | | | | | | |
| 28 | Kelley, Dennis | | | | | | |
| 29 | Kilgore, Carlus | | | | | | |
| 30 | Klitz, Gerald | | | | | | |
| 31 | Kovara, Ann | | | | | | |
| 32 | Lance, George | | | | | | |

| NAMES | DIVISIONS | | | | | PARTS PASSED JUNE, 1983 |
|-------------------------|-----------|---|---|---|---|----------------------------|
| | D | E | F | G | H | |
| Maroff, Todd | | | | | | |
| Marquez-Orozco, Ricardo | | | | | | |
| Martinez, Sergio | | | | | | |
| Mattsson, Matthew | | | | | | |
| Miller, Douglas | | | | | | |
| Mills, Thomas | | | | | | |
| Morales, Ronald | | | | | | |
| Nguyen, Phuong | | | | | | |
| O'Melia, Kevin | | | | | | |
| Oliver, William | | | | | | |
| Olsen, Glenn | | | | | | |
| Olson, Daniel | | | | | | |
| Ornelas, Eduardo | | | | | | |
| Parady, Stephen | | | | | | |
| Paul, Jack | | | | | | |
| Pierson, Jorge | | | | | | |
| Pleger, Timothy | | | | | | |
| Pomeroy, Sandra | | | | | | |
| Ramirez, Arthur | | | | | | |
| Reddell, John | | | | | | |
| Robinson, Stephen | | | | | | |
| Rosensteel, Bonnie | | | | | | |
| Roundig, Audrey | | | | | | |
| Saunders, Lawrence | | | | | | |
| Sedway, Roger | | | | | | |
| Sexton, Tamara | | | | | | |
| Shell, Steven | | | | | | |
| Smith, Craig | | | | | | |
| Smith, John | | | | | | |
| Smith, Larry | | | | | | |
| Sponsler, Scott | | | | | | |
| Stern, Sandra | | | | | | |

5969

| NAMES | DIVISIONS | | | | | PARTS PASSED JUNE, 1983 |
|--------------------|-----------|---|---|---|---|----------------------------|
| | D | E | F | G | H | |
| Taylor, George | | | | | | |
| Thiele, John | | | | | | |
| Velazquez, Michael | | | | | | |
| Wagner, Jeff | | | | | | |
| Westfall, John | | | | | | |
| Williams, John | | | | | | |
| Yasani, Majid | | | | | | |
| Yingling, Brian | | | | | | |
| Zandler, Thomas | | | | | | |
| Zielhaski, Ken | | | | | | |

5970

JUNE 1983 LANDSCAPE ARCHITECT IN TRAINING EXAMINATION RESULTS

| <u>NAME S</u> | <u>SUBJECT A</u> | <u>SUBJECT C</u> |
|------------------------|------------------|------------------|
| Adler, Jordan | | |
| Bartholomaei, Phredric | | |
| Brown, Chris | | |
| Byrne, Thomas | | |
| Copley, Stephen | | |
| Hogg, Robert | | |
| Houghton, David | | |
| Johnson, Jeffrey | | |
| Jordan, Van | | |
| Kivela, Larry | | |
| Knapp, Sandra | | |
| Knotek, Peter | | |
| Laskin, Hardy | | |
| Meyer, Mark | | |
| Novak, Mark | | |
| Palmer, William | | |
| Phillips, William | | |
| Schetter, Judith | | |
| Waterfall, Patricia | | |

PROFESSIONAL REGISTRATION GRANTED LIST

15971

| <u>ARCHITECT</u> | <u>REGISTRATION NUMBER</u> |
|----------------------------|----------------------------|
| Barnes, Steven Eugene | 14306 |
| Bollinger, Kevin Duane | 14338 |
| Burns, Robert William | 14350 |
| Cipriano, Richard Charles | 15033 |
| Comella, Joseph Oliver | 15929 |
| Cooke, Ted Robert | 15938 |
| Goldstein, Gene | 15939 |
| Hann, James Kenneth | 15940 |
| Haskell, Paul Ford | 15941 |
| Hitchens, Gregory | 15942 |
| Kelly, Michael Wilson | 15943 |
| Kennedy, Jeffrey M. | 15944 |
| Kirschenbaum, Eddie Hillel | 15945 |
| Kleber, Terrence Joseph | 15946 |
| Lee, Dennis Gordon | 15947 |
| Love, James Ray | 15948 |
| McCall, Jeffrey Neill | 15949 |
| McNulty, Roseanne Clark | 15950 |
| Mettenbrink, Timothy A. | 15951 |
| O'Connor, Paul Michael | 15952 |
| Ottum, Duane Charles | 15953 |
| Sather, John Edward | 15954 |
| Schmitt, Daniel L. | 15955 |
| Schmitt, Michael Lee | 15956 |
| Sears, Matthew Wood | 15957 |
| Sibayan, Ruben Stanley | 15958 |
| Snedegar, James | 15959 |
| Stachle, Robert Alfred | 15960 |
| Thacker, Boyd H. | 15961 |
| Tilton, Webster | 15962 |
| Ulrich, Roger Lane | 15963 |

PROFESSIONAL REGISTRATION GRANTED LIST (CONTINUED)

15972

ARCHITECT

REGISTRATION NUMBER

Vehr, Paul Anthony III 15964
 Vernosky, Christian Joel 15965
 Violette, Michael Bernard 15966
 Worrall, Joseph Howard III 15967

LANDSCAPE ARCHITECT

Batt, Cordell Larry 15968
 Bedwell, James Sankey 15969
 Woods, Lori Jones 15970

Wright, John Victor 481
 Wright, J. Donald 482
 Curtis, S. Duane 483
 Warrington, Craig Brian 484
 Wick, Randolph W. 485
 Wilcox, Jan L. 486
 Wicker, George Alvin 487
 Wilton, John B. 488
 Winters, Dan 489
 Franklin, David Paul 490
 Wrenn, Thomas Brian 491
 Hall, Michael A. 492
 Harris, Kimberly Ann 493
 Young, Steven P. 494
 Jones, David E. 495
 Kelley, Dennis Craig 496
 Lewis, George Bernard 497
 Harrell, Tom Jonathan 498
 McMillan, Matthew 499
 Miller, Douglas Charles 500
 Miller, Kevin S. 501
 Oliver, William Scott 502
 Parry, Stephen Thomas 503

IN-TRAINING GRANTED LIST

| <u>ARCHITECT-IN-TRAINING</u> | <u>REGISTRATION NUMBER</u> |
|------------------------------|----------------------------|
| Ash, Charles W. | 476 |
| Barnes, Raymond Eugene | 477 |
| Billington, Kym | 478 |
| Bright, Rick L. | 479 |
| Brown, Eric Victor | 480 |
| Burke, Michael F. | 481 |
| Capps, Anthony G. | 482 |
| Cartmell, Catherine Marie | 483 |
| Chapman, Nicole M. | 484 |
| Courtright, Lynne Ann | 485 |
| Couvillion, J. Donald | 486 |
| Curtis, D. Dustin | 487 |
| Davenport, Craig Brian | 488 |
| Dick, Theodore W. | 489 |
| Dodson, Jan L. | 490 |
| Dyckes, George Alaric | 491 |
| Ehlers, John D. | 492 |
| Egenstrom, Eve | 493 |
| Franklin, David Paul | 494 |
| Greenwood, Thomas Brian | 495 |
| Hall, Michael A. | 496 |
| Harris, Kimberly Ann | 497 |
| Herzog, Steven P. | 498 |
| Jones, David K. | 499 |
| Kelley, Dennis Craig | 500 |
| Lance, George Gerard | 501 |
| Marolf, Todd Jonathon | 502 |
| Mattsson, Matthew | 503 |
| Miller, Douglas Charles | 504 |
| O'Melia, Kevin K. | 505 |
| Oliver, William Scott | 506 |
| Parady, Stephen Thomas | 507 |

IN-TRAINING GRANTED LIST (CONTINUED)

| <u>ARCHITECT-IN-TRAINING</u> | <u>REGISTRATION NUMBER</u> |
|--------------------------------|----------------------------|
| Paul, Jack | 508 |
| Pleger, Timothy George | 509 |
| Pomerooy, Sandra J. | 510 |
| Robinson, Stephen Lytle | 511 |
| Rosensteel, Bonnie J. Billings | 512 |
| Saunders, Lawrence Roy | 513 |
| Shell, Steven Colt | 514 |
| Saith, Craig R. | 515 |
| Thiele, John Lemont | 516 |
| Velazquez, Michael Alan | 517 |
| Zandler, Thomas J. | 518 |

LANDSCAPE-ARCHITECT-IN-TRAINING

| | |
|---------------------------|----|
| Kivela, Larry Leonard | 35 |
| Novak, Mark A. | 36 |
| Phillips, William Charles | 37 |

It was moved by Mr. O'Sullivan and seconded by Mr. ... that the Board ... in executive session. The Board reconvened in open session at 11:00 p.m.

EXECUTIVE DIRECTOR'S APPOINTMENT

It was moved by Mr. ... and seconded by Mr. ... that the top four candidates selected by the Search Committee were Mr. ... Mr. ... Mr. ... and Mr. ... and they were being submitted as the final recommendation of the committee for consideration by the Board for executive director. MOTION CARRIED.

It was moved by Mr. ... and seconded by Mr. ... that the Board appoint Mr. ... as the executive director. MOTION CARRIED.

It was moved by Mr. ... and seconded by Mr. ... that Mr. ... be appointed as ... by Mr. ... MOTION CARRIED. Mr. ... requested that the records reflect that there was an ... vote for Mr. ...

It was moved to break for lunch and reconvene in open session at 1:00 p.m.

APPOINTMENT

It was moved by Mr. ... and seconded by Mr. ... that Mr. ... be appointed as ... by Mr. ... MOTION CARRIED. It was moved by Mr. ... and seconded by Mr. ... that the file be closed. MOTION CARRIED.

M I N U T E S

05975

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

OPEN SESSION

DECEMBER 2, 1983

I. CALL TO ORDER

The regular quarter-annual meeting of the State Board of Technical Registration held at the Engineering Center, Room G-330, Arizona State University, Tempe, Arizona was called to order by Chairman John B. Riggs at 9:20 a.m.

PRESENT: John B. Riggs, Chairman
Silas C. Brown, Vice-chairman
Stewart R. Palmer, Secretary
Paul W. Cella, Member
Ronald J. Mlnarik, Member
Jimmie R. Nunn, Member
Charles E. O'Bannon, Member
Reid R. Penland, Member

ABSENT: Robin A. Morris, Member

Gary Sheets, Asst. Attorney General
Ronald W. Dalrymple, Executive Director
LaVern Douglas, Licensing Officer
Margie Holmes, Administrative Secretary
Mary Warrington, Investigation Coordinator

Those present constituted a quorum.

II. EXECUTIVE SESSION

It was moved by Dr. O'Bannon and seconded by Mr. Cella that the Board convene in executive session. The Board reconvened in open session at 12:45 p.m.

III. EXECUTIVE DIRECTOR APPOINTMENT

It was moved by Mr. Nunn and seconded by Dr. O'Bannon that the top four candidates selected by the Search Committee were: Mr. Dalrymple, Mr. Smith, Ms. Hatch and Ms. Imber, and they were being submitted as the final recommendation of the committee for consideration by the Board for executive director. MOTION CARRIED.

It was moved by Mr. Palmer and seconded by Mr. Brown that the Board nominate Mr. Dalrymple to be the executive director. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Mr. Penland that an unanimous vote be cast for Mr. Dalrymple. MOTION CARRIED. Mr. Riggs requested that the records reflect that there was an ultimate unanimous vote for Mr. Dalrymple.

It was moved to break for lunch and reconvene in open session at 1:40 p.m.

IV. ENFORCEMENT

A. Case Action

1. C80-75 BTR vs. Robert R. Johnson, P.E. (Civil) #6391, alleging incompetence in a survey. It was moved by Mr. Cella and seconded by Dr. O'Bannon that the file be closed. MOTION CARRIED.

2. C81-22 BTR vs. Schwenn & Clark, alleging incompetence
It was moved by Mr. Cella and seconded by Dr. O'Bannon that the director be requested to continue with the instructions to continue to monitor the Public Buildings investigation. MOTION CARRIED.
 3. C81-40 & C81-42 BTR vs. Robert Jones, P.E. (Civil) #9168, alleging misuse of seal. It was moved by Mr. Cella and seconded by Dr. O'Bannon that the respondent and the City be notified of the determination in the case that the respondent had committed a violation and the respondent and the City be requested to take remedial action. MOTION CARRIED.
 4. C82-22 BTR vs. Leonard Mitchell, P.E. (Civil) #11310, alleging aiding and abetting. It was moved by Mr. Cella and seconded by Dr. O'Bannon that the case be dismissed. MOTION CARRIED.
 5. C83-008 BTR vs. Anastasios Pappas, P.E. (Structural) #14140, alleging professional misconduct in another jurisdiction. It was moved by Mr. Cella and seconded by Dr. O'Bannon that the executive director send a letter of concern and close the case. MOTION CARRIED.
 6. C82-013 BTR vs. Donald Aadland, P.E. (Electrical) #10525, alleging stamping plans not prepared by himself or bonafide employee. It was moved by Mr. Cella and seconded by Dr. O'Bannon that the Board instruct the executive director to negotiate a \$2,000 fine with the registrant and failing that, disciplinary proceedings be put into motion. MOTION CARRIED.
- B. Investigation Status Report - Mr. Dalrymple informed the Board that staff started the month of November with 48 miscellaneous activity reports pending, staff opened nine; the month ended with 57 miscellaneous activity reports pending. Staff had 59 cases pending at the beginning of the month and opened one case in the month for a total of 60 cases pending. A total of 117 investigations are in process at the moment. This is down approximately 60 cases from three months ago.

V. ADOPTION OF MINUTES

Mr. Palmer stated that there were a few members of the Board that were not notified of the meeting of September 28, 1983 and would like the minutes to reflect this. He would like it to show that at least three of them were not notified. Mr. Palmer, Mr. Cella and Mr. Penland were not notified of the meeting of September 28, 1983. It was moved by Mr. Palmer and seconded by Mr. Cella to let the minutes of September 28 show that some of the members, Mr. Palmer, Mr. Cella and Mr. Penland were not notified of that meeting. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Mr. Cella that the minutes of: July 9, 1982; December 3, 1982; January 27, 1983; February 17, 1983; March 18, 1983; April 8, 1983; May 24, 1983; June 10, 1983; July 21, 1983; August 25, 1983; September 9, 1983 and with the amendment regarding September 28, 1983 be approved as submitted. MOTION CARRIED. The Board has requested that from now on that they would like to have an official copy of the minutes provided no later than 10 days after a meeting.

X. B.

Discussion of Release of NCEE Examinee Statistics - Rudy Jimenez, UA requested a copy be made of the top sheet of the EIT examination sheet from which some statistics could be gotten and followed for a few years. It was moved by Dr. O'Bannon and seconded by Mr. Palmer that a xerox copy of the form be made after the number has been deleted, and that feedback be provided to the Board after 2-2½ years. It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the data Mr. Jimenez requested be submitted to him for 5 years and ask him to report back to the Board after he has reviewed 5 exams so the Board can see the results. MOTION CARRIED. The identification number will be taken off the paper and the score will be inserted by staff.

VI. EVALUATION COMMITTEES REPORTS

- A. Appeal from Henry White - Mr. Mlnarik discussed the applicant's file with the Board. He informed the Board that based under the rules that were in force at the time of his application and a letter from the applicant giving an update regarding his experience, and in light of previous cases, it appears that the applicant has both the educational qualification as well as the experience to qualify him to take the balance of the exam. Therefore, he would recommend that his name be added to page , part 2 and be held for the examination. It was moved by Mr. Mlnarik and seconded by Mr. Cella that Mr. White's name be added to the report and he be required to take Divisions A & D of the examination. MOTION CARRIED.
- B. Appeal from David Wayne Hopper - The Board reviewed Mr. Hopper's file. Mr. Hopper addressed the Board and explained the circumstances that led him to believe that he be allowed to take the examination. The Board reviewed his file and it was moved by Dr. O'Bannon and seconded by Mr. Brown that Mr. Hopper be allowed to take the EIT examination in April, 1984. MOTION CARRIED.

Mr. Penland stated that the Board should write to NAU regarding the problem of not having enough experience to take the examination. Dr. O'Bannon requested the Board to direct the executive director to communicate to the directors of the technology programs at the universities, and the rules of the Board should be very clearly spelled out to the directors. Mr. Dalrymple informed the Board that copies of the rules had been sent out to all the deans. Dr. O'Bannon suggested that copies of the rules be sent to every chairman of every department that offers degree programs in this state.

C. Adoption of Reports

It was moved by Mr. Nunn and seconded by Dr. O'Bannon that applicants Mr. Carvell through Mr. Zorman, are hereby recommended for registration as architects as shown on page 5977 of these minutes. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Dr. O'Bannon the the applicants Messrs. Carothers through Schonfield as shown on page 5977 of these minutes be recommended for registration as landscape architects. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Dr. O'Bannon that Mr. Atkins as shown on page 5977 of these minutes be recommended for registration as chemical engineer. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Dr. O'Bannon that the applicants Messrs. Ballard through Webster as shown on page 5977-78 of these minutes be recommended for registration as civil engineer. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Dr. O'Bannon that the applicants Messrs. Barry through Tolat as shown on page ~~5977~~ of these minutes be recommended for registration as electrical engineer. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Dr. O'Bannon that Mr. Morrisette as shown on page ~~5977~~ of these minutes be recommended for registration as industrial engineer. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Dr. O'Bannon that the applicants Messrs. Brown through Thomas as shown on page ~~5978~~ of these minutes be recommended for registration as mechanical engineer. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Dr. O'Bannon that Messrs. Gutierrez and Wilkey as shown on page ~~5978~~ of these minutes be recommended for registration as sanitary engineer. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Dr. O'Bannon that the applicants Messrs. Amel through Walsh as shown on page ~~5978~~ of these minutes be recommended for registration as structural engineer. MOTION CARRIED.

It was moved by Mr. Penland and seconded by Mr. Nunn that the applicants Messrs. Allen through Ziemba as shown on page ~~5979-80~~ of these minutes be recommended for registration as land surveyors. MOTION CARRIED.

It was moved by Mr. Brown and seconded by Dr. O'Bannon that the applicants Messrs. Adams and White as shown on page ~~5980~~ of these minutes be recommended for registration as geologist. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Dr. O'Bannon that the applicants Messrs. Abed through Walsh as shown on page ~~5980~~ of these minutes be held for the architectural examinations as shown. MOTION CARRIED.

It was moved by Mr. Mlnarik and seconded by Dr. O'Bannon that the applicants Mr. Daley with the addition of Mr. White be held for the landscape architectural examination as shown on page ~~5980~~ of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Nunn that the chemical engineer applicant, Mr. Nulty, as shown on page ~~5981~~ of these minutes be held for Part II of the examination. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the civil engineer applicants Messrs. Alvarez through Van Skike be held for the examination as shown on page ~~5981~~ of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the electrical engineer applicants, Messrs. Gasper through Younger be held for the examination as shown on page ~~5981~~ of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the mechanical engineer applicants Messrs. Kilani through Redmond be held for the parts of the examination as shown on page ~~5981~~ of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that Messrs. Deming and Mitts, mining engineer applicants be held for the parts of the examination as shown on page ~~5981~~ of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that sanitary engineer applicant Mr. Logue be held for part II of the examination as shown on page 5981 of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the structural engineer applicants Messrs. Befort through LeCompte be held for the parts of the examination as shown on page 5982 of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the land surveyor applicants Messrs. Mather through Jernigan be held for the parts of the examination as shown on page 5982 of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that Mr. Cruz's name be withdrawn and his application be denied with neither prejudice nor refund. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer geologist applicant Mr. Wellendorf be held for parts I & II of the examination. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that Messrs. Buschmeyer and Wright be denied for lack of satisfactory experience as shown on page 5982 of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer that the applicants Messrs. Larson through Dodds be denied for failure to complete the requirements of the Board within a reasonable length of time as shown on page 5982-83 of these minutes. MOTION CARRIED.

VII. GRANTING OF REGISTRATIONS (pp 5992-6000)

It was moved by Mr. Nunn and seconded by Dr. O'Bannon to grant registration to the architecture applicants listed on page 5992-5993 of these minutes with the numbers as shown: Messrs Carvell through Zorma. MOTION CARRIED.

It was moved by Mr. Nunn and seconded by Dr. O'Bannon to grant registration to the landscape architecture applicants listed on page 5993 of these minutes with the appropriate numbers as shown: Messrs Carothers through Schonfeld. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Nunn to grant registration as a chemical engineer to Mr. Atkins with the appropriate number as shown on page 5993 of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer to grant registration as a civil engineer to the applicants listed on page 5993-94 of these minutes with the appropriate numbers as shown: Messrs Ballard through Webster. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer to grant registration as an electrical engineer to the applicants listed on pages 5994-95 of these minutes with the appropriate numbers as shown: Messrs Barry through Tolat. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer to grant registration as an industrial engineer to Mr. Morrissette with the appropriate number as shown on page 5995 of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer to grant registration as mechanical engineer to the applicants listed on pages 5995 of these minutes with the appropriate numbers as shown: Messrs Brown through Thomas. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer to grant registration as sanitary engineer to Messrs Gutierrez and Wilkey with the appropriate numbers as shown on page 5996 of these minutes. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Nunn to grant registration as land surveyor to the applicants listed on pages 5996-6000 of these minutes with the appropriate numbers as shown: Messrs Allen through Ziemba. MOTION CARRIED.

Mr. Penland requested that the number for Mr. Ziemba be changed to the next appropriate number instead of the one shown. It should be 16219. This will facilitate keeping better track of the applicants who are being granted registration under the grandfather clause.

It was moved by Mr. Nunn and seconded by Mr. Palmer to grant registration as a geologist to the applicants listed on page 6000 of these minutes with the appropriate numbers as shown: Messrs Adams and White. MOTION CARRIED.

It was moved by Dr. O'Bannon and seconded by Mr. Palmer to grant EIT registration to the applicants listed on page 6001 of these minutes with the appropriate numbers as shown. MOTION CARRIED.

VIII. PUBLIC COMMENT - There was no public comment.

IX. EXECUTIVE DIRECTOR'S REPORT

A. Staff addition - Clerk Typist

Mr. Dalrymple informed the Board that staff has filled the position of clerk typist, that was authorized in the budget. Alma Landa was hired October 18, 1983 to fill that position and is being used primarily in the enforcement section to handle the amount of paperwork that is in the enforcement section and backing up other staff members.

B. Printing of Rosters

Mr. Dalrymple stated that the Board has been authorized to have both the numerical and alpha roster printed and the legislature authorized approximately \$4,000 to do that. He stated that they have an estimate for the printing of 1,000 copies for approximately \$4,700.

C. Computer System Evaluation

Mr. Dalrymple explained the three concepts that the Board could get a computer under. He also stated that approximately \$28,000 that has been allocated for the purchase of a computer system. It was moved by Dr. O'Bannon and seconded by Mr. Nunn that the Board buy a computer and not share it with anybody else. It will be a stand-alone system instead of a shared computer. MOTION CARRIED.

D. Notices of Examination Filing Deadlines

Mr. Dalrymple advised the Board that the new examination deadlines in effect because of the adoption of new rules have been disseminated to all of the state

universities so they can advise students who are preparing for the examination. Dr. O'Bannon once again urged that that information be given to the chairmen of the different departments and not the deans.

E. Procedural changes implemented because of rule adoption.

Mr. Dalrymple explained the changes that staff has had to adopt because of the changes. He reviewed the new changes that have been initiated.

F. Update of Board action on recommendations contained in Auditor General Report #79-9

Mr. Dalrymple stated that the Board had been sent a copy of the report and it had been provided for information only to let the Board know where the Board stood in regards to the recommendations.

Mr. Penland discussed with Mr. Dalrymple and the Board the making of policy statements. He requested some information regarding who was responsible for making policy statements. Mr. Dalrymple explained the position of the office and also who handles policy statements. He informed the Board that he routinely handles between 5-6 such calls a day. It was suggested, as a future agenda item that each Board meeting a particular item could be discussed regarding the most frequent type of calls that the office had received that month.

Mr. Dalrymple discussed the newsletter. He stated that we were going to be working with the professional societies and that the Board would be publishing a newsletter. The Board discussed the mailing of a newsletter and the impossibility of a mailing to all the registrants. It was suggested that an agenda item for the next Board meeting on how to improve communications with the registrants.

X. OTHER BUSINESS

A. Land Surveyor Examination

The Board questioned as to whether we have an examination for the April examination date and whether the October examination has been graded. Mrs. Douglas stated that we do not, at the present time, have an examination for April and that the October examination is locked up in her office until grading December 15 and 16 by the committee. Mr. Nunn suggested that a majority of the present committee be kept on the committee and the exam be reviewed and data composed on which questions should be kept. Mr. Riggs instructed Mrs. Douglas to let him know as soon as the exams are graded and a special Board meeting will be called.

C. NCEE Meeting Report - Mr. Palmer discussed his attendance at the meeting he had attended and also advised the Board that on May 6, 7 and 8, 1984 the regional NCEE meeting will be in Tucson, AZ. He discussed the meeting that he attended November 18 and 19 in Clemson, South Carolina regarding records verification. He stated that NCEE is trying to get more states into the records program. He explained just how the records program would work and stated that NCEE is hoping this would be in effect as of the April exam. He discussed the different ways that the different states use the cut-off scores. Alabama and Georgia gives 5 pts. credit to any veteran. He also informed them that NCEE is going to institute a first-in, first-out test procedure, they will not be holding all the tests until they are all graded and ship them back. Dr. O'Bannon requested the Board have the executive director draft a letter to NCEE for clarification on the grading of the examination and he will help Mr. Dalrymple compose it.

D. CLARB Meeting Report

Mr. Mlnarik discussed the meeting he had attended. He stated that CLARB no longer will be offering a history portion of the exam after 1986 unless it relates specifically to the health, safety and welfare of the public.

E. Discussion of proposed AIPG certification affidavit and certification procedures
Mr. Brown discussed the AIPG certification that the Board has received and stated that as far as he was concerned it fills the bill as long as it was mailed from AIPG in their envelope. It was moved by Mr. Brown and seconded by Mr. Nunn to adopt the AIPG affidavit as part of the certification procedure. MOTION CARRIED.

F. Discussion of Aiding and Abetting and other definitions contained in the new rules
Mr. Dalrymple discussed the definition of aiding and abetting and he stated that there is some division within the advisory committees regarding their definition. He stated that we are going to have to come up with some kind of guidelines. Mr. Nunn stated that he would be attending a NCARB meeting at which time it would be one of the main topics. He suggested that the Board defer discussion until after the meeting he will be attending in Puerto Rico.

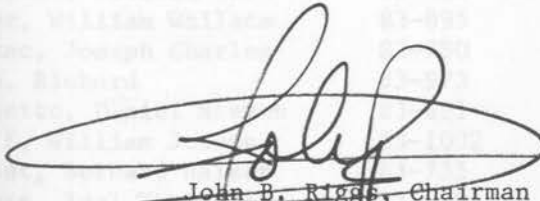
G. Education Committee's Report - Mr. Palmer, Chairman

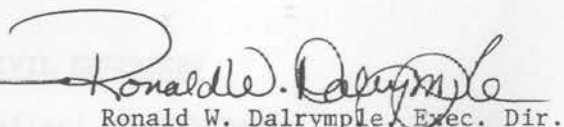
Mr. Palmer discussed the meeting he held on December 1, 1983 composed of four of the Board members and two other people that joined him. Mr. Charles Newlan and Mr. Joe Gust. He stated that Mr. Mlnarik discussed the program of Landscape Architecture with the College of Architecture, environmental designs; specifically with Gerald Shipley. He stated that according to Mr. Shipley the change in emphasis came about in the reduction of funds and limited space for design labs. Mr. Mlnarik stated that it is a consolidation of programs and that there was only one permanent landscape architect on the staff, and Landscape Architecture had been bootlegged into the program.

H. Date of Next Board Meeting

The date of the next scheduled Board meeting will be March 9, 1984 in Tucson.

It was moved by Mr. Nunn and seconded by Mr. Brown to adjourn the meeting. MOTION CARRIED.


John B. Riggs, Chairman
March 16, 1984


Ronald W. Dalrymple, Exec. Dir.
March 16, 1984

TO: Board of Technical Registration

FROM: The Phoenix and Tucson Evaluation Committees
 Chairmen O'Bannon and Cella
 Members Riggs, Palmer, Mlnarik, Nunn and Penland

SUBJECT: Evaluation of Applicants: September 28, 1983, October 6, 1983,
 November 3, 1983 and November 9, 1983

The Evaluation Committees reviewed the following applicants and makes to the Board the recommendations shown regarding registration in Arizona.

1. The following applicants, having satisfied the Committees that they are fully qualified to receive registration in Arizona under A.R.S. 32-122.01 and A.R.S. 32-126, are hereby recommended for registration:

ARCHITECTS

| | |
|----------------------------|---------|
| Carvell, Christopher A. | 83-934 |
| Chartier, Reney L. | 83-910 |
| Conklin, Richard G. | 83-736 |
| Ditko, Patrick Stephen | 83-897 |
| Drag, Paul R. | 83-1036 |
| Goldberg, Abraham J. | 83-1017 |
| Hill, Rush N. II | 83-726 |
| Hodne, Thomas Harold Jr. | 83-1031 |
| Huisinga, Marlin A. | 83-1049 |
| Hunter, Daniel | 83-852 |
| Ionescu, Dan Mihai | 83-868 |
| Jones, Denny Jr. | 83-811 |
| Laski, Gary E. | 83-933 |
| Lynch, Robert John | 82-976 |
| McGough, John W. | 83-898 |
| Maitland, William Jr. | 83-455 |
| Meyer, William Wallace | 83-895 |
| Piskac, Joseph Charles | 83-780 |
| Rauh, Richard | 83-973 |
| Rossetto, Daniel Steven | 83-691 |
| Ruoff, William Joseph | 83-1002 |
| Savant, Bernard Walker | 83-735 |
| Sayers, Joel Thomas II | 83-899 |
| Schmidt, Henry William | 83-1030 |
| Schneider, Carl Gene | 83-847 |
| Sealy, Jim W. | 83-896 |
| Shleppey, Roger Eugene | 83-841 |
| Shuman, Stanley Marshall | 83-1037 |
| Smith, Donald Hugh | 83-839 |
| Tognascioli, Herschel John | 83-786 |
| Trail, William A. | 83-495 |

ARCHITECTS

| | |
|----------------------------|---------|
| Van den Bossche, Edwin H. | 83-586 |
| Watson, Howard Reginald | 82-824 |
| Weller, Louis Leroy | 83-1007 |
| Workman, Robert Clayton | 83-975 |
| Zinkhan, Robert George Jr. | 83-416 |
| Zorman, Maurice | 83-1001 |

LANDSCAPE ARCHITECTS

| | |
|----------------------------|--------|
| Carothers, Richard Alton | 83-651 |
| Imlay, Michael Theron | 83-873 |
| Sawyer, Robert Maurice | 83-874 |
| <i>Schoenfeld, Richard</i> | |

CHEMICAL ENGINEER

| | |
|------------------------|--------|
| Atkins, William Thomas | 83-776 |
|------------------------|--------|

CIVIL ENGINEERS

| | |
|---------------------------|--------|
| Ballard, Joseph Henry | 83-903 |
| Barrett, Frank H. Jr. | 83-810 |
| Brinsko, George Albert | 82-956 |
| Buckett, Ross Paul | 83-564 |
| Chavez, Victor Joseph | 83-240 |
| Christiansen, Robert Earl | 82-959 |
| Dreska, Alvis T. | 83-517 |
| Elmore, David Charles | 83-892 |
| Farr, Larry Jerome | 83-494 |

CIVIL ENGINEERS

| | |
|-------------------------------|--------|
| Fitzpatrick, Michael J. | 83-420 |
| Ghiassi, Mohammad Ali | 83-488 |
| Godwin, James W. Jr. | 83-538 |
| Griffin, Ronald Ray | 83-491 |
| Hansen, John Harvey | 83-649 |
| Harrower, Robert A. | 83-514 |
| Hook, Warren M. | 83-826 |
| Jenny, Robert J. | 83-454 |
| Jernigan, John Bailey | 83-299 |
| Jirsa, Steven Thompson | 83-801 |
| Johansen, Eldon Ray | 83-533 |
| Khazoom, Menashi E. | 83-745 |
| Lucero, Tony J. | 83-765 |
| McAlister, David Arthur | 83-807 |
| Martinsen, Thomas Minford Jr. | 83-744 |
| Matteson, James Harris | 83-721 |
| Meller, Ralph J. | 83-354 |
| Miller, A. Woodruff | 82-759 |
| Miller, Robert Dale | 83-069 |
| Morgan, Herbert W. | 83-913 |
| Noble, Glen E. | 83-991 |
| Pascual, Rudoulf Raymundo | 83-626 |
| Powers, Richard L. | 83-820 |
| Ramaiah, Seetha V. | 83-806 |
| Reed, Aaron M. | 83-657 |
| Roughton, Robert Elliot | 83-581 |
| Schmid, Johann J. | 83-793 |
| Shaw, Jocelyn F. B. | 83-568 |
| Sisley, Tina Marie | 83-519 |
| Sizemore, Earl White | 83-904 |
| Swatek, Mark A. | 83-516 |
| Tucker, Ronald M. | 83-791 |
| Warne, Thomas Robert | 83-672 |
| Webster, William Walter | 82-675 |

ELECTRICAL ENGINEERS

| | |
|-----------------------|--------|
| Barry, Simmons Joseph | 83-674 |
| Boling, Robert Guy | 83-728 |
| Entrolizo, Don A. | 83-498 |
| Gonzales, Luis C. | 83-621 |
| Lopez, John Joseph | 83-844 |
| Meyer, Robert William | 83-172 |
| Oney, Gorman P. | 83-646 |
| Schimpke, Peter James | 83-854 |
| Shuman, David Dean | 83-460 |
| Tolat, Pradip P. | 83-614 |

INDUSTRIAL ENGINEER

| | |
|--------------------------|--------|
| Morrisette, Daniel Felix | 83-578 |
|--------------------------|--------|

MECHANICAL ENGINEERS

| | |
|--------------------------|--------|
| Brown, Conny Ray | 83-702 |
| Day, Edward Lloyd | 83-764 |
| Donahoe, Daniel N. | 83-658 |
| Dreveniak, Theodore J. | 83-288 |
| Holloway, Kirt Eugene | 83-877 |
| Hughes, Robert G. | 83-540 |
| Kaiser, Robert Lee Sr. | 82-927 |
| Kimball, William Richard | 83-888 |
| McGrath, Daniel Franklin | 83-966 |
| Marek, Don Elton | 83-958 |
| Myers, Ned C. | 83-488 |
| Nyman, Van C. | 83-734 |
| Patrick, Bernard J. | 83-824 |
| Riley, Lowell Arthur | 83-530 |
| Schmidt, Kenneth Leonard | 83-634 |
| Smiley, Don Patrick | 83-851 |
| Sun, Tseng-Yao | 82-591 |
| Thomas, Wade Gilbert | 83-878 |

SANITARY ENGINEERS

| | |
|----------------------------|--------|
| Gutierrez, Leonardo V. Jr. | 83-534 |
| Wilkey, Ricky Conway | 83-819 |

STRUCTURAL ENGINEERS

| | |
|-----------------------------|--------|
| Amel, Gary Marvin | 83-719 |
| Bellard, Michael Gerard | 83-652 |
| Broad, Michael Charles | 83-815 |
| Caccavale, Salvatore Erasmo | 83-413 |
| Chhabra, Girdhari L. | 83-625 |
| Clarkson, Philip Howard | 83-457 |
| Craddock, Joe Michael | 83-749 |
| Grossman, Robert Duncan | 83-511 |
| Martin, John Alfred Jr. | 83-556 |
| Schindler, Barry S. | 83-752 |
| Walsh, J. John | 83-617 |

LAND SURVEYORS

| | | | |
|----------------------------|---------|----------------------------|---------|
| Allen, Gregory Leslie | 83-775 | Gerdin, Harold E. | 83-909 |
| Anderson, Donald N. Jr. | 83-861 | Holgate, Joseph | 83-965 |
| Ash, Nancy Katherine | 83-758 | Horner, Gary L. | 83-741 |
| Attebery, James E. | 83-659 | Jason, Joseph E. | 83-1014 |
| Babcock, Joseph Andrew | 83-920 | | |
| Baele, Roger Edward | 83-773 | Johnson, Peter Alan | 83-814 |
| Barber, M. James | 83-886 | Johnson, William Allen | 83-949 |
| Berkowitz, Robert | 83-742 | Kanovich, Joseph S. | 83-928 |
| Bonar, Ronald L. | 83-755 | Larrington, James Kenneth | 83-838 |
| Boren, Ervin Lester | 83-818 | Leavitt, Jack Atherton | 83-827 |
| Brittain, Robert Dean | 83-746 | Lundgren, Samuel Gustaf | 83-862 |
| Broadbent, Jesse Mons | 83-812 | Madhok, Ashok Kumar | 83-1026 |
| Brown, John Daniel | 83-1012 | Magadini, Charles Robert | 83-912 |
| Burgess, Jason McKinley | 83-945 | Magelli, Stephen Mark | 83-950 |
| Burris, David Bruce | 83-884 | Mahoney, Robert Donald | 83-994 |
| Byall, Robert George | 83-778 | Martin, Charles Edgar | 83-837 |
| Cheek, William James | 83-967 | Massingill, Douglas Kurth | 83-915 |
| Clouse, Paul E. | 83-768 | | |
| Collar, Donald H. | 83-980 | Matkin, Ronald Penrose | 83-880 |
| Craft, James William | 83-732 | Murphy, Robert Harley | 83-922 |
| Daru, John Leslie | 83-787 | Nelson, Gerald Hubert | 83-785 |
| Deschamps, Patricia Quinn | 83-1000 | Nelson, Richard John | 83-661 |
| Dibble, Kent Merrill | 83-858 | Norton, Robert Lee | 83-876 |
| Dodzik, Andrew John Jr. | 83-754 | Ohnleiter, Robert Fred | 83-803 |
| Dombrowski, Leon Alex | 83-829 | O'Leary, Dorman S. | 83-954 |
| Dooley, Eugene William | 83-809 | Osborn, Paul Gordon | 83-759 |
| Dooley, Michael Neal | 83-813 | Palmenberg, Roger Edward | 83-894 |
| Dorsett, Ronald | 83-842 | Papscun, Frank Robert | 83-853 |
| Doss, Jake T. | 83-855 | Patel, Ashok C. | 83-856 |
| Emery, Harold Carlton II | 83-833 | Pease, Scott Allen | 83-959 |
| Ensign, Timothy T. | 83-957 | Perrine, Robert Hutchinson | 83-795 |
| Farney, James Eugene | 83-782 | Perry, Richard J. | 83-940 |
| Foster, Thomas Daniel | 83-981 | Peterson, Peter L. | 83-985 |
| Gangwal, Dinkar D. | 83-1013 | | |
| Gavan, Mark T. | 83-955 | Powell, Richard Langdon | 83-830 |
| Glasgow, James M. | 83-946 | Powell, Roy Gibbons | 83-753 |
| Griffith, John David | 83-743 | Putman, Harry Edward | 83-783 |
| Guthrie, Richard Gray | 83-864 | Rader, Tommy F. | 83-1010 |
| Gutierrez, Gilbert Thomas | 83-947 | Rebok, Bruce E. | 83-816 |
| Hampshire, Robert Mason | 83-948 | Rickard, Forrest Robert | 83-857 |
| Harrington, Richard Gilman | 83-774 | Ronnerud, Philip Allen | 83-848 |
| Havill, Michael Richard | 83-962 | Ross, Thomas John | 83-1034 |
| Hawkins, Douglas Wayne | 83-860 | Roydne, Thomas Slavens | 83-1027 |
| Haws, Wallace Ray | 83-887 | Ruiz, Robert C. | 83-817 |
| Heckler, John Scott | 83-779 | Saban, Johnny | 83-757 |
| Heinert, David L. | 83-875 | Sagrillo, Quinton "J" | 83-799 |
| Henley, Leslie Russell | 83-761 | Samer, James Michael | 83-881 |
| Henning, William Henry Jr. | 83-796 | Schoenherr, Roger E. | 83-941 |
| Herz, Robert Thomas | 83-831 | Siewert, Dennis Oliver | 83-802 |
| Hiett, Harley Rue | 83-859 | Skibitzke, Herbert Ernst | 83-769 |

Evaluation Committees Report - Cont'd.

LAND SURVEYORS

| | |
|---------------------------|---------|
| Slocum, Charles Wayne | 83-1025 |
| Smith, Harvey William | 83-890 |
| Speer, Donald Claude | 83-918 |
| Starkenbug, Wesley John | 83-978 |
| Starling, Ronald Allen | 83-986 |
| Steele, Travis Carleton | 83-872 |
| Surface, Donald Eugene | 83-879 |
| Tepley, George J. | 83-760 |
| | |
| Toro, Bruce Robert | 83-797 |
| Truitt, Darrell D. | 83-987 |
| Tynes, Rex A. | 83-907 |
| Tysiac, Lawrence Leon | 83-908 |
| Vana, Bruce D. | 83-733 |
| Van De Bogart, Roy Wilcox | 83-952 |
| Van Dyke, Richard Lee II | 83-932 |
| Vyas, Manoj Navinchandra | 83-762 |
| Walker, William Claude | 83-889 |
| Wallace, Robert Marvin | 83-1024 |
| Warner, William H. | 83-882 |
| Wolan, John Gregory | 83-739 |
| Ziembra, Donald L. | 83-926 |

GEOLOGISTS

| | |
|---------------------|--------|
| Adams, Richard Paul | 83-675 |
| White, Donald Clark | 83-808 |

2. The following applicants were evaluated by the Evaluation Committees and it is recommended to the Board that these individuals be held for the examinations as indicated:

ARCHITECTS

| | | |
|---------------------------|--------|-----------------------------|
| Abed, John H. | 83-367 | Divisions A,B,C,D,E,F,G,H,I |
| Chen, Ming-Gin | 83-359 | Divisions A,B,C,D,E,F,G,H,I |
| Coppedge, Michael Dennis | 83-863 | Divisions B & C |
| Cosambescu, Carmen | 82-807 | Divisions B,C,D,E,F |
| Greenburg, Martin Allan | 83-756 | Divisions B & C |
| Jepperson, Mark Richard | 83-763 | Divisions A,B,C,D,E,F,G,H,I |
| Pillsbury, Robert Lorimer | 83-804 | Divisions B & C |
| Robinson, Stephen Lytle | 83-233 | Divisions A, B, C |
| Skornik, Dana Charles | 82-825 | Divisions A & I |
| Walsh, Winston Donald T. | 83-474 | Divisions A,B,C,D,E,F,G,H,I |

LANDSCAPE ARCHITECT

| | | |
|-----------------------|--------|---------------------|
| Daley, Gerald Raymond | 83-526 | Divisions A,B,C & D |
| White, Henry | | Divisions A & D |

CHEMICAL ENGINEER

| | | |
|-----------------|--------|--------|
| Nulty, James H. | 83-512 | Part I |
|-----------------|--------|--------|

CIVIL ENGINEERS

| | | |
|---------------------------|--------|-------------|
| Alvarez, Dennis B. | 83-569 | Part I & II |
| Engel, Thomas A. | 83-523 | Part II |
| Garcia, Freddy Mendoza | 83-643 | Part I & II |
| Holder, Michael D. | 83-606 | Part II |
| Jacquemin, Christopher L. | 83-573 | Part II |
| Kantardjieff, Alexandra | 83-070 | Part II |
| Kienow, Karl Eric | 83-571 | Part II |
| Lange, Carl Theodore | 83-417 | Part I & II |
| Lewis, John Andrew | 83-583 | Part II |
| London, Jeffrey P. | 83-489 | Part II |
| Schebler, Steven Paul | 83-781 | Part II |
| Stringer, Dennis Arthur | 83-869 | Part II |
| Tatro, Thomas Allen | 83-452 | Part I |
| Van Skike, Jeffrey Bruce | 83-706 | Part II |

ELECTRICAL ENGINEERS

| | | |
|-----------------------|--------|-------------|
| Gasper, Jim Ryan | 83-836 | Part I |
| Rencsok, Joel Andrew | 83-669 | Part II |
| Smyth, Robert | 83-790 | Part I & II |
| Younger, Stephen Kent | 83-792 | Part II |

MECHANICAL ENGINEERS

| | | |
|---------------------------|--------|-------------|
| Kilani, Basil Khairi | 83-686 | Part I & II |
| Lichtenstein, Joram | 83-737 | Part II |
| Lundstrom, Jonathan Leigh | 83-408 | Part II |
| Mathis, William John | 83-766 | Part I & II |
| Redmond, Richard Dean | 83-696 | Part II |

MINING ENGINEERS

| | | |
|--------------------|--------|---------|
| Deming, Dale Alvin | 83-748 | Part II |
| Mitts, Robert K. | 83-544 | Part II |

SANITARY ENGINEER

| | | |
|-----------------|--------|---------|
| Logue, David C. | 83-576 | Part II |
|-----------------|--------|---------|

Evaluation Committees Report - Cont'd.

STRUCTURAL ENGINEERS

| | | |
|-------------------------|--------|-------------|
| Befort, Wayne | 83-577 | Part I & II |
| Beltran, Raymond Edward | 83-609 | Part I & II |
| LeCompte, Carl Matthew | 83-580 | Part III |

LAND SURVEYORS

| | | |
|--------------------------|--------|-------------------|
| Mather, Orville Kenneth | 83-156 | Part III |
| Baldwin, Harold J. | 83-740 | Part I, II, & III |
| Bell, Douglas S. | 83-461 | Part III |
| Bellis, Peter E. | 83-175 | Part I, II, & III |
| Folkers, James Alexander | 83-553 | Part I, II, & III |
| Harrower, Robert Allen | 83-515 | Part III |
| Schneiderwent, Boyd Lee | 83-767 | Part I, II, & III |
| Higginbotham, Paul Dean | 82-972 | Part III |
| Jernigan, John Bailey | 83-298 | Part III |

GEOLOGIST

| | | |
|----------------------------|--------|-------------|
| Wellendorf, Cathy Schulten | 83-546 | Part I & II |
|----------------------------|--------|-------------|

3. The following applicant has requested withdrawal of his application and it is recommended that his application should be denied with neither prejudice nor refund:

| | |
|----------------|--------------|
| Cruz, Cesar E. | 82-221 (EIT) |
|----------------|--------------|

4. The Committees recommend that the applications of the following candidates be denied for lack of satisfactory experience:

| | | |
|----------------------------|---------------------|------------------------------|
| Buschmeyer, Stephen Victor | 83-683 (Civil) | Lack of 10 months experience |
| Wright, H. L. Paavo | 83-944 (Mechanical) | Lack of 48 months experience |

5. It is recommended that the applications of the following candidates be denied for failure to complete the requirements of the Board within a reasonable length of time:

| | |
|------------------------|------------------------------|
| Larson, G. William Jr. | 81-195 (Landscape Architect) |
| Miller, Jack D. | 81-733 (Landscape Architect) |
| Kirdar, Edib "Ed" | 69-270 (Civil) |
| Luna, Frederick H. | 82-056 (Civil) |
| Bundy, David John Jr. | 80-251 (Mechanical) |
| Holbrook, Gordon Ellis | 82-097 (Mechanical) |
| Dugger, Robert Earl | 79-133 (Metallurgical) |
| Campbell, John Melvyn | 80-719 (Structural) |
| Gogel, Anthony John | 82-634 (Geologist) |
| Hohne, Fred C. | 81-477 (Geologist) |

Evaluation Committees Report - Cont'd.

5. Cont'd.

- Southgate, Thomas F. 82-941 (Land Surveyor)
- Butteweg, Robert Steven 82-193 (EIT)
- Collica, Randall S. 82-129 (EIT)
- Collins, Miller J. 82-015 (EIT)
- Eppinga, Anna Jane 81-163 (EIT)
- James, Jonathan H. 82-002 (EIT)
- Leubner, James P. 82-207 (EIT)
- Lightfoot, Stephen R. 82-038 (EIT)
- Niver, Gary G. 82-275 (EIT)
- Olszewski, Peter John 82-288 (EIT)
- Russell, Robert A. 83-002 (EIT)
- Dodds, Mark Kenneth 81-05 (GIT)

6. The following applicant is being denied for lack of experience. He is not registered in any other state and he has not worked under a registrant:

White, Henry Nathaniel 83-343 (Landscape Architect)

7. Due to clerical error, James Nulty was placed on the September 9, 1983 grant list. Correction has been made and he is being held for part 2 of the April, 1984 chemical engineer examination.

1. City of Glendale: I now have twenty-six (26) months of professional work in this position. The Rules and By-Laws adopted July 20, 1973, under which I submitted my application, Section 74-36-03, states that "an applicant has been directly employed in a responsible position of a character satisfactory to the board." I feel that I should have been given experience credit for my former position. As a matter of note, the man, Jack Schwab, was holding some exact position and worked for the same supervisor, Leo Stanley, for whom I had worked for twenty-one (21) months did not get credit for professional experience in his application two years ago.

2. Henry H. Miltz, Consultant: I also feel that I should have been given credit for those twenty-one (21) months of professional work as my major client was for professional landscape services. Also, it may be worthy to note that under the new Rules and By-Laws adopted August 3, 1983, which is more more specific in classifying experience, it does state that up to "one year's experience may be attained under the direct supervision of a registrant in another profession regulated by the board." Carried at least twelve (12) months of that time, I was associated with a Registered Professional, George Sitzer of El Paso, Texas. Also during that period, I had taken the Landscape Architect Registration Exam.



CITY OF GLENDALE

7022 North 58th Drive
Glendale, Arizona 85301
(602) 931-5656

Mayor:
GEORGE R. RENNER
Vice-Mayor:
BRUCE E. HEATWOLE
Councilmen:
HERMAN C. ASDELL
JOE A. FALBO
ROBERT L. HUFFMAN
QUENTIN V. TOLBY
DILLIS R. WARD

59.90

November 17, 1983

Arizona State Board of
Technical Registration
1645 West Jefferson
Suite 315
Phoenix, AZ 85007

Gentlemen:

During a November 16th discussion of my application for registration as a Landscape Architect with Mr. Ronald Dalrymple, Acting Executive Director, I indicated that I would like to submit some additional information to be considered by the Board in its December 2nd review of my application.

I have been informed that the reason that my application has not been given favorable comments is that I was not given credit for any qualifying experience. I, therefore, submit additional information on each position I listed on my application.

1. City of Glendale: I now have twenty-six (26) months of professional work in this position. The Rules and By-Laws adopted July 20, 1979, under which I submitted my application, Section R4-30-03, states that "an applicant has been directly employed in a responsible position of a character satisfactory to the Board." I feel that I should have been given experience credit for my current position. As a matter of note, the man, Jack Gilmore, who held my same exact position and worked for the same supervisor, Lee Stanley, for whom I had worked for twenty-one (21) months did get credit for professional experience on his application two years ago.
2. Henry N. White, Consultant: I also feel that I should have been given credit for those twenty-one (21) months of professional work as my major clientel was for professional landscape services. Also, it may be worthy to note that under the new Rules and By-Laws adopted August 3, 1983, which is much more specific in classifying experience, it does state that up to "one year's experience may be attained under the direct supervision of a registrant in another profession regulated by the Board." During at least twelve (12) months of that time, I was associated with a Registered Architect, George Staten of El Paso, Texas. Also during that period, I had taken the Landscape Architect Registration Exam.

15991

Arizona State Board of
Technical Registration
November 17, 1983

page 2

3, 4, and 5: That period of time was professional ex-
perience in the architectural fields in which I performed
a considerable amount of design-related functions. All
that time adds up to twenty-one (21) months of full-time
experience.

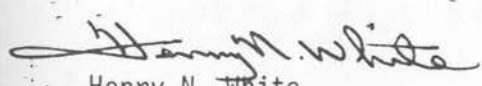
In addition to that experience, in much of the fifty-five
(55) months which I spent attending Texas A & M University,
College of Architecture, I was also working in positions
which according to the August 3, 1983 Rules and By-Laws
Section R4-30-252, would be counted as experience. I
worked as a Landscape Designer for a Registered Landscape
Architect for twenty (20) months while attending Under-
graduate School. Also, the Planning Director of Bryan,
Texas, for whom I worked while attending Graduate School
for nine (9) months, was a Landscape Architect.

I feel that all that experience should total above the adequate
amount of professional experience required under the Rules and
By-Laws. In view of the fact that I have already taken the
Landscape Architecture Registration Exam, having passed two
sections, and having come within a few points of the passing
score on the other two sections, I respectfully request that
I be considered for registration as a Landscape Architect in
the State of Arizona.

It is very important to me to obtain this Registration, and
it is also a requirement of my position with the City of Glendale.

Your consideration would be greatly appreciated.

Sincerely,



Henry N. White
Landscape Architect
Planning & Zoning Department

cc: Robert P. Spaulding, Community Development Administrator
Paul D. Walker, Planning Director

HNW:md

David W. Hopper
620 East McKellips Road
#E129
Tempe, Arizona 85281

15992

Arizona Board of Technical Registration
1645 West Jefferson
Suite 140
Phoenix, Arizona 85007

18 November 1983

Dear Sirs,

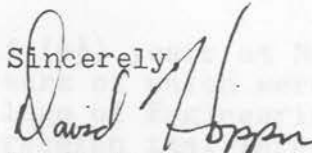
This is in regard to my recent submittal of application for the Engineer-In-Training examination. The application and accompanying check was submitted on 14 November 1983, on 17 November 1983 the application and check was returned to me, there was no accompanying explanation or correspondence. I have considered the return as a signal of rejection.

I am in turn exercising my right of appeal. I am requesting an opportunity to appear before the board during the next meeting, in December. I feel that I am entitled to a personal review of my credentials.

Your cooperation would be greatly appreciated, thank you.

My application is included, my transcripts are on file.

Sincerely,



David W. Hopper

David W. Hopper

State of Arizona
BOARD OF TECHNICAL REGISTRATION

David W. Hopper
620 East McKellips Road
#E129
Tempe, Arizona 85281

15993

Arizona Board of Technical Registration
1645 West Jefferson
Suite 140
Phoenix, Arizona 85007

10 November 1983

Dear Sirs,

Please find my attached application and check for the Engineer-In-Training Examination.

I applied for the examination the previous time it was administered, my application was rejected based upon a ruling effective 3 August 1983.

I am an Engineering Technology graduate from Northern Arizona University in Flagstaff, emphasis in the Civil area. My degree was granted in December of 1982.

I am of the view that an individual such as myself, having completed my Bachelor degree before the effective date of the ruling, two (2) years educational credit for a B.S. degree in Engineering Technology, should be granted some amount of "slack" and allowed to attempt the examination before the completion of two (2) years of experience.

Throughout my four and one-half ($4\frac{1}{2}$) years at Northern Arizona University, four (4) years of which were spent in direct contact with the College of Engineering and Technology, I was under the impression that three (3) years of educational credit was granted the Engineering Technology graduate towards the four (4) year requirement to take the examination. I had completed one (1) year of experience as of late August of 1983.

It is my feeling and the feeling of many students and professors at Northern Arizona University that Engineering Technology graduates are more than capable of successfully completing the Engineer-In-Training Examination.

It would be greatly appreciated if my eligibility is reviewed and considered with my graduation date and other circumstances in mind.

Sincerely,

David W. Hopper
David W. Hopper



State of Arizona
BOARD OF TECHNICAL REGISTRATION

15894

FOR ARCHITECTS, ASSAYERS, ENGINEERS, GEOLOGISTS, LANDSCAPE ARCHITECTS AND LAND SURVEYORS

1645 W. JEFFERSON, SUITE 140 • PHOENIX, ARIZONA 85007 • (602) 255-4053

PLEASE USE TYPEWRITER ONLY

Date Filed 10 November 1983

RECEIVED

NOV 14 1983

Application Fee \$30

APPLICATION FOR THE
IN-TRAINING PROGRAM

STATE BOARD OF
TECHNICAL REGISTRATION

Architect-in-training

Geologist-in-training

Assayer-in-training

Landscape Architect-in-training

Engineer-in-training

Land Surveyor-in-training

1. GENERAL INFORMATION

Name of Candidate David Wayne Hopper
 Current Mailing Address 620 East McKellips Road Telephone No. (602) 941-2521
(Mail will be sent to this address unless otherwise advised)
Tempe, Arizona Zip Code 85281
 Permanent Home Address 1817 Oaklawn Drive
Prescott, Arizona Zip Code 86301
 Date of Birth 26 August 1960 Citizenship United States
 Are you a current resident of Arizona? Yes

If any answer to the following questions is "yes," attach a detailed explanatory statement.

- Have you ever been known by a name other than the one shown on this application? No
 If so, please state that name: _____
- Have you ever been convicted of a felony or misdemeanor other than minor traffic violations? No
- If you have been convicted of a crime, have your civil rights been restored? _____ If so, describe on a separate sheet.

2. EDUCATION

ALL EDUCATION MUST BE VERIFIED BY CERTIFIED TRANSCRIPTS FORWARDED DIRECTLY FROM THE OFFICE OF THE REGISTRAR OF THE COLLEGE OR UNIVERSITY ATTENDED PRIOR TO GRANTING OF IN-TRAINING CERTIFICATION. TRANSCRIPTS OF NON-DEGREE APPLICANTS, OTHER THAN SENIORS, CLAIMING ANY EDUCATIONAL CREDIT MUST BE FORWARDED AND RECEIVED PRIOR TO ADMISSION TO EXAMINATION. SENIORS SHOULD NOT HAVE TRANSCRIPTS FORWARDED UNTIL DEGREE HAS BEEN AWARDED.

| | Degree | Date | University | Dept. of School |
|---------------------|----------|---------|--------------------|-------------------|
| First Professional | B.S.E.T. | 12-1982 | Northern Az. Univ. | Engineering Tech. |
| Second Professional | | | | |
| Other | | | | |

3. EDUCATION ENDORSEMENT

Must be certified by Dean or Faculty Advisor

I, Michael K. Householder, hereby certify that the education information regarding this applicant and noted in No. 2 above is true and correct to the best of my knowledge.

Signature Michael K. Householder Title (please type) Dean of Engineering, NAU
Dean, College of Engineering - NAU

NOTE: GRADUATES MAY HAVE TRANSCRIPTS FORWARDED IN LIEU OF ENDORSEMENT; HOWEVER, TRANSCRIPTS MUST BE FORWARDED AND RECEIVED PRIOR TO ADMISSION TO EXAMINATION.

4. EXPERIENCE RELATED TO THE FIELD OF APPLICATION

65995

ALL EXPERIENCE MUST BE VERIFIED BY THE CANDIDATE'S CURRENT OR FORMER EMPLOYERS ON CERTIFICATES OF EXPERIENCE PROVIDED THEM BY THE BOARD.

| Current | Work Description |
|---|--|
| Name and address of employer PRC Engineering Company 4131 North 24 Street Phoenix, Arizona 85016 From 11 July 1983 to Present Dates of employment Phoenix, Arizona Place of employment Design Engineer (Junior) Job Title G. Cooper Roberts Vice Pres. (Div.) Supervisor Title | Design tasks on subdivision (paving, grading, water and sewer plans), public works (paving, water, sewer, etc...), and other land development related projects. Responsibility for great amount of design and drafting involved with projects mentioned above. |
| Name and address of employer American Engineering Company 3864 North 27 Avenue Phoenix, Arizona 85017 From 23 Jan. 1983 to 08 July 1983 Dates of employment Phoenix, Arizona Place of employment Design Draftsman Job Title Dean J. Pearson Project Egr. Supervisor Title | Basic design and drafting tasks on subdivision, public works and land development plans. Position involved much drafting with some design. |
| Name and address of employer Arizona State Department of Transportation South Milton Road Flagstaff, Arizona 86001 From May 1982 to August 1982 Dates of employment Flagstaff, Arizona Place of employment Engineering Aide II, Survey Job Title Harvey Cottolendy Crew Chief Supervisor Title | Performed surveying activities upon new route of Arizona Interstate 40 around Williams, Arizona. Position involved tasks as instrument man, rod man and chain man. |

5. EMPLOYMENT ENDORSEMENT

I, G. Cooper Roberts, hereby certify that this applicant is currently in my employ and that the information noted above regarding his current employment is true and correct.

Signed: [Signature] Title Division Vice President
PRC Engineering
 4131 N. 24th Street Phoenix, Arizona 85016 (602)954-9191
 Address

6. EXAMINATION

If this application is accepted, unless otherwise notified, I will take the examination at Phoenix Tucson Flagstaff
 (Check one)

7. AFFIDAVIT

STATE OF ARIZONA }
 County of MARICOPA }
 ss.
DAVID HOPPER being first duly sworn, deposes and says, I am the Applicant named in this application; I have read the same and know the contents thereof, and the same is true in substance and effect.
[Signature]
 (Signature of Candidate)
 Subscribed and sworn to before me this 12TH day of OCTOBER, 19 83
 My Commission expires April 27, 1986 Sandra J. Kramer
 (Notary Public)

NO PROCESSING OF THIS APPLICATION SHALL BEGIN UNTIL ALL VERIFYING INFORMATION IS RECEIVED BY THE BOARD.

NOTICE

MAKING A FALSE SWORN STATEMENT IS A FELONY PUNISHABLE BY FINE OR IMPRISONMENT. A.R.S. 13-2702: 13-2703.

96 7210 HOPPER, MR. DAVID WAYNE
 AL SECURITY NUMBER, NAME Last First Middle or Maiden
 7 OAKLAWN DR. PRESCOTT, AZ 86301 8/26/60 PRESCOTT, AZ
 Street City State Zip Code Birthdate Place of Birth
 WAYNE N. HOPPER SAME
 PARENT OR GUARDIAN NAME ADDRESS Street City State Zip Code
 SCOTT PRESCOTT, AZ MAY, 1978
 SCHOOL City State Date graduated Rank In Graduating Class 5 J '7

STUDENT STATUS
 AUG 28 1978

#96-7210 HOPPER DAVID W FALL 78

| NUMBER | DESCRIPTIVE TITLE | SEM. HRS. | GRADE |
|---------|-----------------------------|-----------|-------|
| M 101 | FUNDAMENTAL CHEMISTRY | 3.0 | C |
| M 151 | INTEGRATED CHEMISTRY LAB I | 1.0 | D |
| G 102 | ENGLISH COMPOSITION | 3.0 | B |
| T 110 | COLLEGE ALGEBRA | 3.0 | B |
| T 135 | ELEMENTARY FUNCTIONS | 4.0 | B |
| Y 150 | GENERAL PSYCHOLOGY | 3.0 | C |
| ----- | | | |
| A 2.384 | SEM. PTS 31.0 SEM. CR. HRS | 13.0 | |
| A 2.384 | CUM. PTS 31.0 CUM. CR. HRS. | 13.0 | |

#96-7210 HOPPER DAVID W SPRING 79

| NUMBER | DESCRIPTIVE TITLE | SEM. HRS. | GRADE |
|---------|--------------------------------|-----------|-------|
| S 141 | WEST CIV SINCE 1650 | 3.0 | C |
| T 135 | ELEMENTARY FUNCTIONS | 4.0 | C |
| L 150 | MAN AND VALUE | 3.0 | B |
| L 150 | MAN AND VALUE | 3.0 | B |
| C 174 | SCIENTIFIC FORTRAN PROGRAMMING | 3.0 | A |
| S 201 | MAN AND AMERICA | 3.0 | B |
| G 103 | ENGLISH COMPOSITION | 3.0 | B |
| ----- | | | |
| A 2.750 | SEM. PTS 44.0 SEM. CR. HRS | 16.0 | |
| A 2.586 | CUM. PTS 75.0 CUM. CR. HRS. | 29.0 | |

#96-7210 HOPPER DAVID W FALL 79

| NUMBER | DESCRIPTIVE TITLE | SEM. HRS. | GRADE |
|--------|-----------------------------|-----------|-------|
| Y 136 | CALCULUS & ANALYTIC GEOM I | 4.0 | C |
| Y 151 | GENERAL PHYSICS | 1.0 | B |
| Y 151 | GENERAL PHYSICS | 3.0 | B |
| Y 184 | MAGICK MACHINE LAN B AND | 3.0 | B |
| Y 70 | ENGINEERING GRAPHICS | 3.0 | B |
| Y 171 | INTRODUCTION TO ENGINEERING | 3.0 | B |
| Y 175 | ENGINEERING ANALYSIS | 3.0 | B |
| Y 170 | PLANE SURVEYING | 1.0 | B |
| Y 270 | PLANE SURVEYING | 2.0 | B |
| Y 154 | ENGINEERING TECH DRAFTING | 3.0 | B |
| Y 151 | ENGINEERING TECH DRAFTING | 3.0 | B |
| Y 151 | ENGINEERING TECH DRAFTING | 3.0 | B |
| ----- | | | |

527-96-7210 HOPPER DAVID W SPRING 80

| DEPT. | NUMBER | DESCRIPTIVE TITLE | SEM. HRS. | GRADE |
|-------|--------|------------------------------|-----------|-------|
| GLG | 121 | PHYSICAL GEOLOGY | 4.0 | B |
| PHY | 151 | GENERAL PHYSICS | 3.0 | B |
| PHY | 151 | GENERAL PHYSICS | 3.0 | B |
| SPT | 161 | FUNDAMENT OF ORAL COMMUNICAT | 3.0 | B |
| TEC | 151 | ENGINEERING TECH DRAFTING | 3.0 | A |
| ----- | | | | |
| SGPA | 3.285 | SEM. PTS 46.0 SEM. CR. HRS | 14.0 | |
| CGPA | 2.912 | CUM. PTS 166.0 CUM. CR. HRS. | 57.0 | |

527-96-7210 HOPPER DAVID W FALL 80

| DEPT. | NUMBER | DESCRIPTIVE TITLE | SEM. HRS. | GRADE |
|-------|--------|------------------------------|-----------|-------|
| ECU | 180 | ECONOMIC ENVIRONMENT OF MAN | 3.0 | B |
| ENG | 317 | FOLKLORE | 3.0 | C |
| PHY | 152 | GENERAL PHYSICS | 3.0 | A |
| PHY | 152 | GENERAL PHYSICS | 3.0 | A |
| ECR | 360 | CONTRACTS AND SPECIFICATIONS | 3.0 | A |
| TEC | 344 | BASIC ELECTRICAL TECHNOLOGY | 2.0 | A |
| TEC | 344 | BASIC ELECTRICAL TECHNOLOGY | 2.0 | A |
| ----- | | | | |
| SGPA | 3.437 | SEM. PTS 55.0 SEM. CR. HRS | 16.0 | |
| CGPA | 3.027 | CUM. PTS 221.0 CUM. CR. HRS. | 73.0 | |

527-96-7210 HOPPER DAVID W SPRING 81

| DEPT. | NUMBER | DESCRIPTIVE TITLE | SEM. HRS. | GRADE |
|-------|--------|------------------------------|-----------|-------|
| ENG | 302 | TECHNICAL REPORT WRITING | 3.0 | B |
| TEC | 354 | CONSTRUCTION GEOMETRY | 3.0 | B |
| TEC | 371 | INTERMEDIATE SURVEYING | 1.0 | B |
| TEC | 371 | INTERMEDIATE SURVEYING | 2.0 | B |
| TEC | 351 | APPL MECH & STATICS | 3.0 | B |
| TEC | 371 | ROUTE SURVEYING | 1.0 | B |
| TEC | 371 | ROUTE SURVEYING | 2.0 | B |
| ----- | | | | |
| SGPA | 3.400 | SEM. PTS 51.0 SEM. CR. HRS | 15.0 | |
| CGPA | 3.090 | CUM. PTS 272.0 CUM. CR. HRS. | 88.0 | |

CONTINUED ON PAGE 2

NORTHERN ARIZONA UNIVERSITY FLAGSTAFF, ARIZONA

STUDENT STATUS

SOCIAL SECURITY NUMBER

NAME

Last

First

Middle or Maiden

527-96-7210 HOPPER DAVID W FALL 81

| DEPT. | NUMBER | DESCRIPTIVE TITLE | SEM. HRS. | GRADE |
|-------|--------|--------------------------------|-----------|-------|
| TEC | 379 | WATERWASTE WATER TECHNOLOGY | 1.0 | A |
| TEC | 379 | WATERWASTE WATER TECHNOLOGY | 2.0 | B |
| TEC | 461 | FUNDAMENTALS OF SOIL MECHANICS | 1.0 | A |
| TEC | 461 | FUNDAMENTALS OF SOIL MECHANICS | 3.0 | A |
| TEC | 464 | APPL STRENGTH OF MATERIALS | 1.0 | A |
| TEC | 464 | APPL STRENGTH OF MATERIALS | 3.0 | B |

SGPA 3.545 SEM.PTS 39.0 SEM.CR.HRS 11.0
 CGPA 3.141 CUM.PTS 311.0 CUM.CR.HRS. 99.0

527-96-7210 * CORRECTION * FALL 81

| DEPT. | NUMBER | DESCRIPTIVE TITLE | SEM. HRS. | GRADE |
|-------|--------|-----------------------|-----------|-------|
| | | HOPPER DAVID W | | |
| *TEC | 475 | PRODUCTION TECHNOLOGY | 3.0 | D |

SGPA 3.100 SEM.PTS 9.0 SEM.CR.HRS 3.0
 CGPA 3.137 CUM.PTS 320.0 CUM.CR.HRS. 102.0

527-96-7210 HOPPER DAVID W SPRING 82

| DEPT. | NUMBER | DESCRIPTIVE TITLE | SEM. HRS. | GRADE |
|-------|--------|--------------------------------|-----------|-------|
| TEC | 362 | CONSTRUCTION PROCEDURES | 1.0 | A |
| TEC | 362 | CONSTRUCTION PROCEDURES | 2.0 | A |
| TEC | 373 | NON-MET MATERIALS OF CONSTR | 1.0 | A |
| TEC | 373 | NON-MET MATERIALS OF CONSTR | 2.0 | B |
| TEC | 378 | HYDROLOGY AND DRAINAGE | 3.0 | A |
| TEC | 421 | FLUID MECHANICS AND HYDRAULICS | 1.0 | A |
| TEC | 421 | FLUID MECHANICS AND HYDRAULICS | 3.0 | B |
| TEC | 465 | STRUCTURAL DESIGN | 4.0 | B |

SGPA 3.470 SEM.PTS 59.0 SEM.CR.HRS 17.0
 CGPA 3.184 CUM.PTS 379.0 CUM.CR.HRS. 119.0

527-96-7210 HOPPER DAVID W FALL 82

| DEPT. | NUMBER | DESCRIPTIVE TITLE | SEM. HRS. | GRADE |
|-------|--------|--------------------------------|-----------|-------|
| MGT | 300 | PRINCIPLES OF MANAGEMENT | 3.0 | C |
| ME | 377 | CON PROB & FAM ECON | 3.0 | C |
| CSC | 382 | COMPUTER GRAPHICS | 3.0 | A |
| EGR | 383 | ENGINEERING ECONOMY | 3.0 | A |
| TEC | 440 | GUIDELINES PRAC EGR TECHNOLOGY | 1.0 | C |
| SOC | 300 | CONTEMPORARY SOCIAL PROBLEMS | 3.0 | C |

SGPA 3.000 SEM.PTS 45.0 SEM.CR.HRS 16.0
 CGPA 3.264 CUM.PTS 424.0 CUM.CR.HRS. 135.0

DEGREE AWARDED 527-96-7210 HOPPER, DAVID WAYNE
 DEC 17, 1982: BACH OF SCI IN ENGINEERING TECH

MAJOR: CIVIL ENGINEERING TECHNOLOGY

JUL 14 1982

PROFESSIONAL REGISTRATION GRANTED LIST

| <u>ARCHITECTS</u> | <u>REGISTRATION NUMBER</u> |
|----------------------------|----------------------------|
| Carvell, Christopher A. | 15971 |
| Chartier, Reney L. | 15972 |
| Conklin, Richard G. | 15973 |
| Ditko, Patrick Stephen | 15974 |
| Drag, Paul R. | 15975 |
| Goldberg, Abraham J. | 15976 |
| Hill, Rush N. II | 15977 |
| Hodne, Thomas Harold Jr. | 15978 |
| Huisinga, Marlin A. | 15979 |
| Hunter, Daniel | 15980 |
| Ionescu, Dan Mihai | 15981 |
| Jones, Denny Jr. | 15982 |
| Laski, Gary E. | 15983 |
| Lynch, Robert John | 15984 |
| McGough, John W. | 15985 |
| Maitland, William Jr. | 15986 |
| Meyer, William Wallace | 15987 |
| Piskac, Joseph Charles | 15988 |
| Rauh, Richard | 15989 |
| Rossetto, Daniel Steven | 15990 |
| Ruoff, William Joseph | 15991 |
| Savant, Bernard Walker | 15992 |
| Sayers, Joel Thomas II | 15993 |
| Schmidt, Henry William | 15994 |
| Schneider, Carl Gene | 15995 |
| Sealy, Jim W. | 15996 |
| Shleppey, Roger Eugene | 15997 |
| Shuman, Stanley Marshall | 15998 |
| Smith, Donald Hugh | 15999 |
| Tognascioli, Herschel John | 16000 |
| Trail, William A. | 16001 |
| Van den Bossche, Edwin H. | 16002 |
| Watson, Howard Reginald | 16003 |

PROFESSIONAL REGISTRATION GRANTED LIST (Continued)

| <u>ARCHITECTS</u> | <u>REGISTRATION NUMBER</u> |
|----------------------------------|----------------------------|
| Weller, Louis Leroy | 16004 |
| Workman, Robert Clayton | 16005 |
| Zinkhan, Robert George Jr. | 16006 |
| Zorman, Maurice | 16007 |
| <i>Wright, Thomas Howard Jr.</i> | <i>16008</i> |
| <u>LANDSCAPE ARCHITECTS</u> | |
| Carothers, Richard Alton | 16008 |
| Imlay, Michael Theron | 16009 |
| Sawyer, Robert Maurice | 16010 |
| <i>Schoenfeld, Richard</i> | <i>16151</i> |
| <u>CHEMICAL ENGINEER</u> | |
| Atkins, William Thomas | 16011 |
| <u>CIVIL ENGINEERS</u> | |
| Ballard, Joseph Henry | 16012 |
| Barrett, Frank H. Jr. | 16013 |
| Brinsko, George Albert | 16014 |
| Buckett, Ross Paul | 16015 |
| Chavez, Victor Joseph | 16016 |
| Christiansen, Robert Earl | 16017 |
| Dreska, Alvis T. | 16018 |
| Elmore, David Charles | 16019 |
| Farr, Larry Jerome | 16020 |
| Fitzpatrick, Michael J. | 16021 |
| Ghiassi, Mohammad Ali | 16022 |
| Godwin, James W. Jr. | 16023 |
| Griffin, Ronald Ray | 16024 |
| Hansen, John Harvey | 16025 |
| Harrower, Robert A. | 16026 |
| Hook, Warren M. | 16027 |
| Jenny, Robert J. | 16028 |
| Jernigan, John Bailey | 16029 |
| Jirsa, Steven Thompson | 16030 |

PROFESSIONAL REGISTRATION GRANTED LIST (Continued)

| <u>CIVIL ENGINEERS</u> | <u>REGISTRATION NUMBER</u> |
|---------------------------------|----------------------------|
| Johansen, Eldon Ray | 16031 |
| Khazoom, Menashi E. | 16032 |
| Lucero, Tony J. | 16033 |
| McAlister, David Arthur | 16034 |
| Martinsen, Thomas Minford Jr. | 16035 |
| Matteson, James Harris | 16036 |
| Meller, Ralph J. | 16037 |
| Miller, A. Woodruff | 16038 |
| Miller, Robert Dale | 16039 |
| Morgan, Herbert W. | 16040 |
| Noble, Glen E. | 16041 |
| Pascual, Rudoulf Raymundo | 16042 |
| Powers, Richard L. | 16043 |
| Ramaiah, Seetha V. | 16044 |
| Reed, Aaron M. | 16045 |
| Roughton, Robert Elliot | 16046 |
| Schmid, Johann J. | 16047 |
| Shaw, Jocelyn Frederick Basil | 16048 |
| Sisley, Tina Marie | 16049 |
| Sizemore, Earl White | 16050 |
| Swatek, Mark A. | 16051 |
| Tucker, Ronald M. | 16052 |
| Warne, Thomas Robert | 16053 |
| Webster, William Walter | 16054 |
| <u>ELECTRICAL ENGINEERS</u> | |
| Barry, Simmons Joseph | 16055 |
| Boling, Robert Guy | 16056 |
| Entrolizo, Don A. | 16057 |
| Gonzales, Luis C. | 16058 |
| Lopez, John Joseph | 16059 |
| Meyer, Robert William | 16060 |
| Oney, Gorman P. | 16061 |

PROFESSIONAL REGISTRATION GRANTED LIST (Continued)

| <u>ELECTRICAL ENGINEERS</u> | <u>REGISTRATION NUMBER</u> |
|-----------------------------|----------------------------|
| Schimpke, Peter James | 16062 |
| Shuman, David Dean | 16063 |
| Tolat, Pradip P. | 16064 |
| <u>INDUSTRIAL ENGINEER</u> | |
| Morrisette, Daniel Felix | 16065 |
| <u>MECHANICAL ENGINEERS</u> | |
| Brown, Conny Ray | 16066 |
| Day, Edward Lloyd | 16067 |
| Donahoe, Daniel N. | 16068 |
| Dreveniak, Theodore J. | 16069 |
| Holloway, Kirt Eugene | 16070 |
| Hughes, Robert G. | 16071 |
| Kaiser, Robert Lee Sr. | 16072 |
| Kimball, William Richard | 16073 |
| McGrath, Daniel Franklin | 16074 |
| Marek, Don Elton | 16075 |
| Myers, Ned C. | 16076 |
| Nyman, Van C. | 16077 |
| Patrick, Bernard J. | 16078 |
| Riley, Lowell Arthur | 16079 |
| Schmidt, Kenneth Leonard | 16080 |
| Smiley, Don Patrick | 16081 |
| Sun, Tseng-Yao | 16082 |
| Thomas, Wade Gilbert | 16083 |
| <u>SANITARY ENGINEERS</u> | |
| Gutierrez, Leonardo V. Jr. | 16084 |
| Wilkey, Ricky Conway | 16085 |

PROFESSIONAL REGISTRATION GRANTED LIST (Continued)

STRUCTURAL ENGINEERS

REGISTRATION NUMBER

| | |
|-----------------------------|-------|
| Amel, Gary Marvin | 16086 |
| Bellard, Michael Gerard | 16087 |
| Broad, Michael Charles | 16088 |
| Caccavale, Salvatore Erasmo | 16089 |
| Chhabra, Girdhari L. | 16090 |
| Clarkson, Philip Howard | 16091 |
| Craddock, Joe Michael | 16092 |
| Grossman, Robert Duncan | 16093 |
| Martin, John Alfred Jr. | 16094 |
| Schindler, Barry S. | 16095 |
| Walsh, J. John | 16096 |

LAND SURVEYORS

| | |
|-------------------------------|-------|
| Allen, Gregory Leslie | 16097 |
| Anderson, Donald Nicholas Jr. | 16098 |
| Ash, Nancy Katherine | 16099 |
| Attebery, James E. | 16100 |
| Babcock, Joseph Andrew | 16101 |
| Baele, Roger Edward | 16102 |
| Barber, M. James | 16103 |
| Berkowitz, Robert | 16104 |
| Bonar, Ronald L. | 16105 |
| Boren, Ervin Lester | 16106 |
| Brittain, Robert Dean | 16107 |
| Broadbent, Jesse Mons | 16108 |
| Brown, John Daniel | 16109 |
| Burgess, Jason McKinley | 16110 |
| Burris, David Bruce | 16111 |
| Byall, Robert George | 16112 |
| Cheek, William James | 16113 |
| Clouse, Paul E. | 16114 |
| Collar, Donald H. | 16115 |
| Craft, James William | 16116 |

PROFESSIONAL REGISTRATION GRANTED LIST (Continued)

| <u>LAND SURVEYORS</u> | <u>REGISTRATION NUMBER</u> |
|----------------------------|----------------------------|
| Daru, John Leslie | 16117 |
| Deschamps, Patricia | 16118 |
| Dibble, Kent Merrill | 16119 |
| Dodzik, Andrew John Jr. | 16120 |
| Dombrowski, Leon Alex | 16121 |
| Dooley, Eugene William | 16122 |
| Dooley, Michael Neal | 16123 |
| Dorsett, Ronald | 16124 |
| Doss, Jake T. | 16125 |
| Emery, Harold Carlton II | 16126 |
| Ensign, Timothy T. | 16127 |
| Farney, James Eugene | 16128 |
| Foster, Thomas Daniel | 16129 |
| Gangwal, Dinkar D. | 16130 |
| Gavan, Mark T. | 16131 |
| Glasgow, James M. | 16132 |
| Griffith, John David | 16133 |
| Guthrie, Richard Gray | 16134 |
| Gutierrez, Gilbert Thomas | 16135 |
| Hampshire, Robert Mason | 16136 |
| Harrington, Richard Gilman | 16137 |
| Havill, Michael Richard | 16138 |
| Hawkins, Douglas Wayne | 16139 |
| Haws, Wallace Ray | 16140 |
| Heckler, John Scott | 16141 |
| Heinert, David L. | 16142 |
| Henley, Leslie Russell | 16143 |
| Henning, William Henry Jr. | 16144 |
| Herz, Robert Thomas | 16145 |
| Hiett, Harley Rue | 16146 |
| Gerdin, Harold E. | 16147 |
| Holgate, Joseph | 16148 |

PROFESSIONAL REGISTRATION GRANTED LIST (Continued)

| <u>LAND SURVEYORS</u> | <u>REGISTRATION NUMBER</u> |
|----------------------------|----------------------------|
| Horner, Gary L. | 16149 |
| Jason, Joseph E. | 16150 |
| Johnson, Peter Alan | 16152 |
| Johnson, William Allen | 16153 |
| Kanovich, Joseph S. | 16154 |
| Larrington, James Kenneth | 16155 |
| Leavitt, Jack Atherton | 16156 |
| Lundgren, Samuel Gustaf | 16157 |
| Madhok, Ashok Kumar | 16158 |
| Magadini, Charles Robert | 16159 |
| Magelli, Stephen Mark | 16160 |
| Mahoney, Robert Donald | 16161 |
| Martin, Charles Edgar | 16162 |
| Massingill, Douglas Kurth | 16163 |
| Matkin, Ronald Penrose | 16165 |
| Murphy, Robert Harley | 16166 |
| Nelson, Gerald Hubert | 16167 |
| Nelson, Richard John | 16168 |
| Norton, Robert Lee | 16169 |
| Ohnleiter, Robert Fred | 16170 |
| O'Leary, Dorman S. | 16171 |
| Osborn, Paul Gordon | 16172 |
| Palmenberg, Roger Edward | 16173 |
| Papscun, Frank Robert | 16174 |
| Patel, Ashok C. | 16175 |
| Pease, Scott Allen | 16176 |
| Perrine, Robert Hutchinson | 16177 |
| Perry, Richard J. | 16178 |
| Peterson, Peter L. | 16179 |

PROFESSIONAL REGISTRATION GRANTED LIST (Continued)

| <u>LAND SURVEYORS</u> | <u>REGISTRATION NUMBER</u> |
|---------------------------|----------------------------|
| Powell, Richard Langdon | 16181 |
| Powell, Roy Gibbons | 16182 |
| Putman, Harry Edward | 16183 |
| Rader, Tommy F. | 16184 |
| Rebok, Bruce E. | 16185 |
| Rickard, Forrest Robert | 16186 |
| Ronnerud, Philip Allen | 16187 |
| Ross, Thomas John | 16188 |
| Roydne, Thomas Slavens | 16189 |
| Ruiz, Robert C. | 16190 |
| Saban, Johnny | 16191 |
| Sagrillo, Quinton "J" | 16192 |
| Samer, James Michael | 16193 |
| Schoenherr, Roger E. | 16194 |
| Siewert, Dennis Oliver | 16195 |
| Skibitzke, Herbert Ernst | 16196 |
| Slocum, Charles Wayne | 16197 |
| Smith, Harvey William | 16198 |
| Speer, Donald Claude | 16199 |
| Starkenburg, Wesley John | 16200 |
| Starling, Ronald Allen | 16201 |
| Steele, Travis Carleton | 16202 |
| Surface, Donald Eugene | 16203 |
| Tepley, George J. | 16204 |
| Toro, Bruce Robert | 16206 |
| Truitt, Darrell D. | 16207 |
| Tynes, Rex A. | 16208 |
| Tysiac, Lawrence Leon | 16209 |
| Vana, Bruce D. | 16210 |
| Van De Bogart, Roy Wilcox | 16211 |
| Van Dyke, Richard Lee II | 16212 |
| Vyas, Manoj Navinchandra | 16213 |

PROFESSIONAL REGISTRATION GRANTED LIST (Continued)

LAND SURVEYORS

REGISTRATION NUMBER

| | |
|------------------------|-------|
| Walker, William Claude | 16214 |
| Wallace, Robert Marvin | 16215 |
| Warner, William H. | 16216 |
| Wolan, John Gregory | 16217 |
| Ziemba, Donald L. | 16218 |

GEOLOGISTS

| | |
|---------------------|-------|
| Adams, Richard Paul | 14647 |
| White, Donald Clark | 15817 |

ENGINEER-IN-TRAINING GRANTED LIST

| <u>ENGINEER-IN-TRAINING</u> | <u>REGISTRATION NUMBER</u> |
|-----------------------------|----------------------------|
| Anderson, Richard Stanford | 3052 |
| Meaker, Donald Lawrence | 3053 |
| Miller, Barry Kent | 3054 |
| Schulte, Robert | 3055 |
| Waddell, Kathy | 3056 |

The following applicant, having satisfied the conditions that he is fully qualified to receive registration by Articles under 1.1.3, 12-122.01 and A.R.O. 12.1.6. is hereby recommended for registration. Under VI. Registration Conditions, Analysis and Mapping of Reports, add: on page 7 of the agenda, to "Landscape Architecture".

LANDSCAPE ARCHITECTURE

Schoenfeld, Richard 12-EM

Mr. Schoenfeld's work was reviewed by CEAS and it was found that he achieved a passing score.

Professional Registration Grant List, Under VII. Granting of Professional Registrations, add: on page 18 of the agenda, to "Landscape Architecture".

LANDSCAPE ARCHITECTS

Schoenfeld, Richard 16151

Enter Study Department add: L. Future Agenda Items

WALTER M. GILL/MURPHY
CONSULTING ENGINEERS
SURVEYORS

ADDENDUM

ARIZONA STATE BOARD OF TECHNICAL REGISTRATION

REGULAR SESSION

DECEMBER 2, 1983

- I. The following applicant, having satisfied the Committees that he is fully qualified to receive registration in Arizona under A.R.S. 32-122.01 and A.R.S. 32-126, is hereby recommended for registration. Under VI. Evaluation Committees, Reports and Adoption of Reports, add: on page 3 of the agenda, to "Landscape Architect":

LANDSCAPE ARCHITECT

Schonfeld, Richard 82-238

Mr. Schonfeld's exam was regraded by CLARB and it was found that he achieved a passing score.

- II. Professional Registration Grant List, Under VII. Granting of Professional Registrations, add: On page 18 of the agenda, to "Landscape Architect":

LANDSCAPE ARCHITECT

Schonfeld, Richard 16151

- III. Under Other Business add: I. Future Agenda Items

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STATE BOARD OF
TECHNICAL REGISTRATION



METTEE/McGILL/MURPHY
CONSULTING ENGINEERS
SURVEYORS

1450 EAST INDIAN SCHOOL ROAD-SUITE C
PHOENIX, ARIZONA 85014
(602) 279-0901

6009

RICHARD W. METTEE, P.E., L.S.
JOSEPH C. MCGILL, P.E.
ROBERT H. MURPHY, P.E.

November 21, 1983

State of Arizona-Board of Technical Registration
1645 W. Jefferson-Suite 315
Phoenix, Arizona 85007

RE: APLS SUIT

Gentlemen:

I am one of the 61 surveyors whose registration is being challenged by the above referenced law suit. My concern is the possibility of losing this license after the June 30, 1984 deadline established by the Board to obtain L.S. licenses. I am presently a practicing Civil Engineer (#9531) and Land Surveyor (#14195).

My position is that in 1980 I applied for this license in the manner specified by the Board and it was their decision to grant that license. Secondly, I am certainly eligible to obtain an L.S. license under the present regulations allowing registrants to be granted an L.S. license if application is made prior to July 1, 1984.

Please advise me as to your recommendations to assure me that my L.S. license will not be invalidated.

Sincerely,

METTEE/McGILL/MURPHY

Richard W. Mettee, P.E., L.S.
President

cc: Dick Palmer
A.C.E.A.

RWM/jh

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STATE BOARD OF
TECHNICAL REGISTRATION



National Headquarters
AMERICAN INSTITUTE OF PROFESSIONAL GEOLOGISTS

6010

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October 13, 1983

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 State of Arizona
 Board of Technical Registration
 1645 W. Jefferson, Suite 140
 Phoenix, AZ 85007

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NOV 18 1983

STATE BOARD OF
 TECHNICAL REGISTRATION

Dear Mr. Dalrymple:

Per the terms of Arizona State Board of Technical Registration Rules R4-30-207(C.), we submit herewith copies of the applicable sections of the AIPG Constitution and Bylaws for the years 1963-1983 inclusive.

These documents, which I swear are copies of the originals, contain information concerning the requirements in force at the time the candidate was originally certified by this Institute. They also give the method of certification.

Also enclosed is the form AIPG would prefer be used to verify current Institute membership. Note that we want the applicant for Arizona registration to complete, sign and date this form and mail it to AIPG Headquarters. An official of the Institute will attest that the information is correct and will then return it to your Board.

Finally, I am pleased to report that the state of Virginia has within the last six weeks joined a number of other states in accepting a sworn statement from the applicant, which their board cross-checks against the current AIPG directory, as proof of AIPG certification for geologist registration purposes in Virginia. Really now, why can't Arizona do the same? In the immortal words of Thoreau: "Simplify...simplify."

Sincerely,

Victor C. Tannehill

Victor C. Tannehill
 Executive Director

Encl.

cc: John Riggs
 Silas Brown
 Edward Daples

VCT:dep

(INSTRUCTIONS: Applicant for Arizona registration is to complete, sign and date this form and mail it to AIPG Headquarters. An official of the Institute will attest that the information is correct and will return it to the Arizona Board.)

6041

TO: State of Arizona Board of Technical Registration
1645 West Jefferson, Suite 140
Phoenix, Arizona 85007

Gentlemen:

This is to attest that I, _____, am currently a
(Full Name)
member in good standing and certified by the American Institute of
Professional Geologists as a Certified Professional Geological
Scientist:

AIPG CPG or CPGS Number _____

Date Granted _____

(Signature of Applicant)

DATE _____

(AIPG SEAL)

ATTESTED BY:

(Signature of AIPG Official)

FOR THE AMERICAN INSTITUTE OF PROFESSIONAL GEOLOGISTS

DATE _____