ELECTION RESULTS ANNOUNCED

GRAFTON VOTED 1983 AIPG PRESIDENT-ELECT

Dean Grafton, CPGS 1233, Region Exploration Geologist for Cities Service Company, Houston, Texas, has been voted 1983 President-Elect of the American Institute of Professional Geologists. His opponent was Ross L. Shipman, CPGS 2222, Associate Vice-President for Research Administration, The University of Texas at Austin in balloting for the position. Grafton will serve as 1984 President of the Institute.

In other election results announced October 13th Richard M. Winar, CPGS 1851, a partner of Dames & Moore currently principal-in-charge of the firm’s participation in the radioactive decontamination of the West Valley Nuclear Service Center in West Valley, NY, has been voted 1983 Vice-President of the Institute. Winar won over Susan M. Landon, CPGS 4591, a Petroleum Geologist with Amoco Production Company, Denver.

Elected 1983 Secretary-Treasurer of the Institute was Linda A. F. Dutcher, CPGS 4392. A consulting geologist in Carbondale, Illinois, she won over Donald D. Carr, CPGS 3819, in the voting for that office. He is head of the Coal and Industrial Minerals Section of the Indiana Geologic Survey, Bloomington, Indiana.

In balloting for the office of AIPG Editor, elected to a two-year term (1983-84) to that post was Kenneth N. Weaver, CPGS 1064, Director and State Geologist, Maryland Geological Survey. He won over Norman K. Olson, CPGS 1611, State Geologist, South Carolina Survey, Columbia, South Carolina.

Grafton, Winar, Dutcher and Weaver will team with AIPG 1983 President Larry D. Woodfork, CPGS 2370, Assistant State Geologist, West Virginia Geological and Economic Survey, Morgantown, West Virginia, to complete the Institute’s officer slate for next year.

LAST CALL FOR ANNUAL MEETING!

You must act now if you plan to attend the Institute’s Annual Meeting in Pasadena, California, November 10th through 12th. The meeting headquarters hotel, the Huntington-Sheraton, still has rooms. Call (213) 792-0266 to make your reservations. A credit card charge for your first night’s lodging is required to guarantee.

RESTATED CONSTITUTION/BYLAWS

Included in this issue of the TPG are restated AIPG Constitution and Bylaws. Please take the time to read through the documents. Note the changes (Pages 21-31) that are being proposed. The main impetus for the revisions is to remove all references to gender. To vote on the proposed amendment, mark your ballot form (Page 15) and return it to Headquarters. Votes must be received by January 1st.
EXEC COMMITTEE ORGANIZES

Three Members of the 1983 Advisory Board will be elected to serve two-year terms (1983 and 1984) on the AIPG Executive Committee when that Board meets at Pasadena November 10th.

Serving the second year in 1983 of their two-year terms as Advisory Board Representatives on the Executive Committee will be: Travis H. Hughes (Alabama Section), Charles J. Worrel (Texas Section), and Angelo Tagliacozzo (Northeast Section).

Those six representatives of the Advisory Board will join the four newly-elected 1983 officers on next year's Executive Committee, along with Richard J. Proctor, the AGI Representative. The makeup will be completed in coming weeks after the naming of the 1983 Chairman of the Intersociety Advisory Group (ISAG) who also will serve on the Institute's 1983 Executive Committee.

1983 DUES BILLS GO OUT

Your statement for 1983 AIPG dues will be mailed to you shortly. National Headquarters is now preparing the invoice forms.

National dues for next year for Members, Associates, and Retirees have yet to be set. Section dues, which are additional, have been set and are published elsewhere in this issue.

The dues billing form will also include a reprint of each Member's personal data as it appears on AIPG's records. You are asked to please fill in all blanks and mark any changes. Refer to the Directory for code numbers of Fields of Practice. This information will be printed in the 1983 Directory.

Payment of your 1983 dues to AIPG made before December 31, 1982, can be taken as a deduction on your 1982 tax returns. You receive tax credits for payment one whole year earlier than you would if you delay paying until 1983.

MEMBERSHIP GROWTH CONTINUES

Your Institute now has nearly 4,400 Members plus Associates... and we're continuing to grow. As of the end of September, AIPG had 4,107 Members, 131 Retired Members and 88 Associate affiliates, for a grand total of 4,326.

Headquarters expects that the Institute will hit the 4,500 Member mark by year-end.

Promotional mailings continue to flow from our Office to prospects. Mailings to registered geologists in various States are scheduled. Geologist non-members of several technical-scientific societies are slated to receive information about the benefits of AIPG membership.

A special effort continues to "recruit" college and university Geology Department heads.

Section Membership Committee Chairmen are helping by following up with personal phone calls to those prospects who request membership packets from Headquarters.

According to the latest membership statistical reports, during September AIPG received a total of 47 applications — that's an all-time one month record. In 1982 we should achieve the greatest one-year growth in AIPG's history.

PROCTOR REPRESENTATIVE

Richard J. Proctor, CPGS 5091, an engineering geologist from Arcadia, California, has been named to the 1983 AIPG Executive Committee. He will serve a one-year term as a representative of the American Geological Institute.

Proctor's appointment was made by 1982 AGI President Dr. John D. Haun.

ANNUAL BUDGETING PROCESS

The process of developing the budget for AIPG for 1983 has been ongoing throughout the year but is now reaching a conclusion. Annual operating results and income and expense can now be fairly well estimated through December 31st, 1982.

Your new national officers have been hard at work setting Institute objectives for '83 and deciding on the programs and projects to accomplish them.

From this, and only after this objective-setting, can come the "costing out" of expenses and the estimating of income. This will be completed before the current Executive Committee decides on AIPG membership dues for the coming year at its meeting in Pasadena November 10th.

A preliminary detailed line item budget will be prepared by the incoming officers and submitted to the new Executive Committee at its initial meeting first of the year. The Executive Committee will then review, discuss, make any changes, and formally approve the financial operating plan.

✓ "RETIREE" CLASSIFICATION

A reminder: The AIPG Executive Committee has formally and officially established the dues paying classification of "Retiree" for those Members over 65 who have belonged to AIPG for ten or more years and who are now no longer practicing geology professionally.

As an administrative matter, a $15 annual National dues rate has been in effect for those who qualify, by order of the Executive Committee several years ago. Last year Sections agreed to waive Section dues for these "Retirees".

The 1983 National dues for such individuals are about to be set. If you are 65 or older, now "retired" from professional geology — and if you have belonged to AIPG for at least ten years — please advise Headquarters of your status, if you have not done so already.

FINAL '82 EXECUTIVE COMMITTEE MEETING

The 1982 AIPG Executive Committee will hold its fourth quarter meeting in Pasadena in conjunction with the Annual Meeting. This will be its final regularly scheduled gathering of '82.

The Executive Committee is to meet Wednesday, November 10th and Thursday, November 11th, Noon to 5:00 P.M. both days, in the Garden Room of the Huntington-Sheraton Hotel.

NEW SECTION OFFICERS

A number of AIPG's Sections have concluded their elections of officers for 1983. The results of this voting are covered under Section News in this issue.

Current Section Presidents and Secretary-Treasurers are reminded that — if they haven't done so already — results of election of '83 officers are to be sent to Headquarters.
INSTITUTE "SHORT COURSES"

A number of Members have registered in advance for one or both of the Institute's new "short courses" being held in conjunction with the Annual Meeting in Pasadena. "Effective Business and Technical Report Writing" will be conducted in the San Marino Room of the Huntington-Sheraton Hotel, Wednesday, November 10th, 1:00-5:00 P.M. And, "The Geologist as Expert Witness" will be presented in the Mirror Room, Friday, November 12th 1:00-5:00 P.M.

The Registration fee for either of the seminars is $35 for Members of AIPG; $50 for non-Members. Interested participants can sign up on-site to take either of the courses. The fee includes registration, reference materials, workbook, and refreshments.

"Business and Technical Report Writing" will be presented by Melba (Jerry) Murray, President of MAI. Emphasis will be on practical techniques in business communication. The course covers proper writing. The rules of grammar are briefly reviewed. Effective use of language is discussed and practiced, including the use of strong verbs, sound structure, and continuity and cohesiveness. Those attending will be shown how to write with clarity, simplicity, brevity — and professional correctness.

"The Geologist as Expert Witness" presenter will be Dr. John F. Mann, Jr. He will cover the subject from first contact through trial testimony. Participants in this course will learn what questions to ask during their initial conversation with an attorney and/or potential client. They will be taught analysis of the relevant facts. Compensation and retainer arrangements will be discussed. Preparation of testimony will be reviewed. This course concentrates on preparation: reports, testimony, exhibits, rehearsal, and cross-examination.

'83 ADVISORY BOARD TO MEET

The Delegates to AIPG's 1983 Advisory Board will hold their organizational meeting at Pasadena Wednesday, November 10th, 10:10 A.M.-Noon in the Mirror Room at the Huntington-Sheraton Hotel, in conjunction with AIPG's Annual Meeting. Individuals representing their respective Sections are expected at the meeting. The turnout should be excellent, and much good will be accomplished for the Institute.

One of the most important items of business to be transacted by the Board, chaired by 1983 President-elect Dean Grafton, will be the election of three of their members to two-year terms on the Institute's Executive Committee.

MEETING OF 1982 ADVISORY BOARD

The 1982 AIPG Advisory Board meeting is scheduled for Wednesday, November 10th, 8:00-9:50 A.M., in the Mirror Room at the Huntington-Sheraton Hotel, Pasadena, California, in conjunction with AIPG's Annual Meeting.

Chairman of the '82 Board, Larry D. Woodfork, AIPG President-Elect, will preside.

Purpose of the Advisory Board is to discuss and make recommendations to the Institute's Executive Committee.

ISAG TO MEET IN PASADENA NOVEMBER 11TH

Chairman Ernest K. Lehmann reports that an Intersociety Advisory Group (ISAG) meeting is set for 8:00 A.M., Thursday, November 11th, in the Alhambra Room of the Huntington-Sheraton Hotel, Pasadena, California, in conjunction with the AIPG Annual Meeting.

REG & LEG COMMITTEES

In a recent letter to Section Presidents, Institute President M. O. Turner wrote:

"One of AIPG's primary objectives is to monitor, analyze, and, when appropriate, present the Institute's position on Federal legislative and regulatory matters whenever and wherever they occur.

Your Officers and Executive Committee are primarily responsible for performing these duties in conjunction with AIPG's Governmental Affairs Committee, chaired by Dr. Gordon Everett in Washington. Also participating in these efforts are Executive Director Vic Tannehill, Legislative Counsel Jim Hamersley and AIPG's Washington Representative Dr. Russ Wayland. But there is also a very important role that you and your Section must play.

The Institute's work in this area, to be reasonably effective, now requires a fully cooperating Legislative and Regulatory Committee operating in each state. Many of you already have these committees in place to handle your own state affairs... If your Section does not now have a "Leg. and Reg." Committee or a chairman, please appoint one now. Let Vic at national headquarters know who they are in order to provide this means to activate a two-way response on these increasingly critical and "short fuse" matters."

Turner concluded by asking for comments or suggestions regarding AIPG's programs and activities in governmental or legislative affairs. And he encouraged Section members to attend the Annual Meeting in Pasadena.

PAST PRESIDENT'S BREAKFAST

The traditional Past President's Breakfast will be held at the AIPG Annual Meeting in Pasadena.

This usual informal get-together with the Executive Committee is set for 7:30 A.M., Friday, November 12th, in the Garden Room at the Huntington-Sheraton Hotel.

Hosted by this year's Executive Committee, an excellent turnout is expected.

AIPG FOUNDATION BOARD MEETS

The A.I.P.G. Foundation will hold a breakfast meeting of its Board of Directors and Trustees in Pasadena, Thursday morning, November 11th. Foundation Chairman John W. Rold, Vice Chairman M. O. Turner, Secretary-Treasurer James R. Dunn, and Executive Director Vic Tannehill will be present. Larry D. Woodfork, 1983 AIPG President who will go or the Foundation Board next year, also will participate in the meeting.

IN MEMORIAM...

HAROLD M. VAN CLIEF, CPGS 162
San Leandro, CA
CHARLES R. WILCOX, CPGS 373
Denver, CO
EVERETT T. REED, CPGS 2950
Enid, OK
JAMES P. SPILLERS, CPGS 999
Lafayette, LA
CHARLES R. LOOSE, CPGS 5041
Hot Springs Village, AR
“WILDERNESS LANDS” PROPOSAL
By M.O. Turner
1982 President, AIPG

A decisive struggle for control of one out of every nine acres in the U.S. will be decided next month when the U.S. Senate reconvenes for its “lame duck” session and votes on this highly controversial measure. Enactment of S-2801 will effectively deny the public access to the enormous energy and mineral reserves known to exist under these lands and it will have a serious impact on the careers of the nation’s geologists and earth scientists. Fifty-five Senators have already signed as co-sponsors of this bill which seemingly assures its passage and enactment if signed by the President. Unless defeated, this bill will effectively prohibit leasing and conventional mineral and energy exploration on some 229 million acres of public lands. Not only will the practice of the explorationist be curtailed, but valuation and development by the nation’s mining, petroleum and industrial geologists will also be prohibited. Further, this curtailment will undoubtedly cause a dampening effect on all earth science activities extending even into university classrooms. We now have a serious problem confronting us and I respectfully ask your help in opposing this unreasonable lock-up of these publicly owned natural resources.

While S-2801 specifically refers to designating only 35 million acres as “wilderlands” a total of 229 million acres of public lands will actually be affected including wilderness “study” and “planning” areas, RARE II, Forest Service, BLM as well as other public lands which will also be effectively withdrawn. As earth scientists as well as citizens, we must insure that S-2801 is either defeated or becomes fair and equitable so that it represents the highest and best use of these public lands for the minority of the people.

By denial of these vast expanses to the public for multiple use, these areas will become the private preserve of a new American aristocracy, the environmental groups whose current leadership is determined to seize control solely for the private use and privilege of the select few who are fortunate enough to have the time and money available for hiking and back packing. As written, this bill denies access to everyone except hikers or those who fly in by helicopter.

Why is opposing this bill so important? Unless defeated or seriously amended, S-2801 will condemn the public’s interest in an estimated reserve of 30 billion barrels of oil and 150 trillion cubic feet of gas underlying these public lands, (Ken Cummings, CPGS 519, Senate Testimony 9-23-82). At today’s prices, these potential oil and gas reserves when produced are worth $1.5 trillion dollars, more than enough to repay the national debt. Anothe AIPG earth scientist (L. Courtland Lee, CPGS 4838, Senate Testimony 9-23-82) stated these areas also contain “significant deposits of strategic and critical minerals (which are) presently known to exist in (these) wilderness areas.” The use of these publicly owned energy and mineral reserves which are clearly needed for home heating, public transportation and other human needs, will thus be forfeited solely in exchange for the enjoyment and pleasure of a select few.

Because the American Institute of Professional Geologists is the only “professional” earth science organization of all the 17 “technical” associations holding membership in the American Geological Institute, I consider this analysis and advisory in compliance with AIPG’s stated goals of (1) advancing professionalism in the earth sciences and (2) protecting the public interest. Furthermore, since it has fallen my lot as the current President of AIPG, I have chosen this method of addressing this matter and I now earnestly solicit your support and endorsement of this position. As professional earth scientists, AIPG accepts a leadership role in this confrontation so that sound logic, clear facts and indeed, basic common sense is made manifest and that further dialogue be heard fairly in responsible open forums instead of conducting a campaign of sensationalism now routinely fed by many to the nation’s new media.

At the recent Senate hearings on this bill at which Cummings, Lee and I testified, Chairman Malcolm Wallop (R-Wyom.) vigorously denied that the debate over wilderness had become an “emotional” issue, bereft of logic and fact. The clear fact is, however, that the highly professional environmental lobby has now clearly stumped and overwhelmed both Houses and of Congress and the public as well, in their unreleting drive to secure control over these public lands. Even worse, they have also intimidated the good judgement of the President in view of his apparent willingness to sign S-2801 as a trade off to secure multiple use of certain other wilderness planning areas.

The environmentalists’ new lexicon and rhetoric now refers to the “mega-damage” which will inevitably happen to wilderness areas as a result of man’s presence and that exploration for energy and minerals threatens an “apocalypse” thereby destroying the “pristine beauty” of these “wild and scenic” areas. A classic example of the prevailing level of nonsense was offered by Adam Schultz (SEG geophysicist for the Wilderness Society, Senate Testimony 9-23-82), when he claimed that the heavy boots of wilderness hikers causes undue damage to the sensitive ground cover, thus new regulations would be implemented to require “soft rubberized shoes” for backpackers in order to protect the tender vegetation. Schultz stated that all seismic surveys in wilderness areas will result in permanent damage to wilderness areas and thus their use should be prohibited permanently. Their only purpose, he noted, was to make more “profits” for the already rich oil companies. This is the absurd level of rhetorical nonsense now addressing the wilderness debate by the current leadership of the once responsible Sierra, Audubon and Wilderness groups. These new purveyors of hysteria have orchestrated this cacophony of emotional absurdity because they know it works not only in creating knee jerk outrage from an uninformed public, but they have found when repeated loudly and often enough it buckles knees and weakens vertebra throughout the halls of Congress, especially among those Senators now up for reelection. “Slash”, “burn”, “ravage”, “chain saw” and “bulldozer” are also some of the electric buzz words this abusive group finds useful in diverting rational debate yet still gets the embazoned headlines they continually strive for.

During the September 23rd Senate hearing on this bill, the four current top environmental leaders were sitting as a panel, including William Turnage, Executive Director of the Wilderness Society, Russell Peterson, President of the National Audubon Society, J. Michale McCloskey, Executive Director of the Sierra Club and Karen Sheldon, Staff Attorney for the Sierra Club Legal Defense Fund. Committee member Senator Don Nickles (R-Okla.) then asked for anyone of the four on the panel to tell him “of any instance they knew in which a wilderness area or any of the environment had suffered damage as a result of mineral or energy exploration or production.” No one answered. Senator Nickles then repeated the question again, “Please give me one example of any damage that anyone has caused to the wilderness?” Turnage, Peterson, McCloskey and Sheldon sat as mutes. Again, there was no answer. Senator Nickles asked the same question four times. Not one of these self appointed defenders of the nation’s wilderness could offer one example or relate one incident of damage to wilderness areas.

(CONTINUED ON NEXT PAGE)
Over these many years, leaders in science and industry have shamefully endured an unending array of environmental hoaxes and frauds perpetrated by these groups, not the least of which includes the loueswor, snail darter and Love Canal fables. Because of these continuing abuses to public decency, it is now time that the nation’s earth scientists demand a higher level of accountability and responsibility from the leaders of the Wilderness, Audubon and Sierra groups. Their statements and positions on protecting public and private lands must be required to meet the same tests of fact, truth and basic responsibility that each of us face daily in the professions, industry, and the academy. As John Audubon was known for his priceless portrayals of America’s native flora and fauna, few realize he found it necessary to always kill the delicate wildlife or bird or animal in order to more faithfully reproduce his subject on canvas. So it is today with the current environmental leadership in their abuse and rejection of fact, responsibility and basic common sense in their unrelenting drive and insatiable desire for power to control public lands. Smugly, they offer no quarter in this final battle for America’s public lands for they are convinced victory is theirs. “If S-2801 fails to pass”, Turnage stated, “the Wilderness Society will sue James Watt to prevent his leasing or granting access to these lands.”

S-2801 is clearly a bill of illusions. It makes a mockery of the legitimate legislative process and Congress should be ashamed of itself. The bill’s principal architects have clearly stated that its basic purpose is to handcuff Interior Secretary James Watt and the administration in order to prevent them from leasing these vast public lands.

Unless Senator James McClure, (R-Idaho) Chairman of the Senate Energy and Natural Resources Committee can successfully stall a vote on this bill until next year, his colleagues now on the campaign trail will reconvene after the elections to proudly announce they have voted “for the Wilderness Protection Act of 1982 to save the nation’s wilderness areas for the use and enjoyment of America’s future generations.” That is, unless we can bring sanity to this issue and change enough minds to defeat S-2801.

I hope you too will now expect complete candor and intellectual honesty from these national decisionmakers when discussing or corresponding with them about this matter. There is much at stake.

All of this becomes meaningless and futile, however, if you and the members of your section or your society fail to call or write your own two Senators and the President, expressing your personal concern and opposition to S-2801. Please do it today. Thank you.

AIPG COMMENTS ON OSM PROPOSALS

Institute President M. O. Turner has sent this letter to the Office of Surface Mining:

“We are a nationwide organization of 4,300 professional geologists who are concerned, among other things, with protecting the public’s interest and well being.

We are pleased to have the opportunity to comment as geologists on the rules proposed June 25 on your hydrology permitting and performance standards. In view of the fact OSM is revising the existing rules in order to clarify the major hydrology and geology concepts, we believe that the following suggestions will be of assistance to you in your final rule making.

In 780.21(b)(1) we suggest that the last sentence should read “Ground water quantity descriptions shall include, at a minimum, the discharge rates, depth to water, and direction of ground water movement in each . . .”

In 780.21(j)(1) the tenth line should read “total manganese and water levels sufficient to define direction of ground water movement shall . . .”

In 784.14(b)(1) the tenth line should read “total manganese, temperature, and other information . . .” The fourteenth line should read, “rates, depth to water, and direction of ground water movement in each . . .”

In 784.14(j)(1) the tenth line should read “total manganese, temperature, and water levels sufficient to define direction of ground water movement shall . . .”

In 784.22(b)(3)(i) the first line should read “Logs of drill holes including geophysical logs as available showing the . . .”

In 784.22(b)(3)(iv) the third line should read “any, in the structure immediately overlying and underlying each coal seam . . .”

While the foregoing suggested changes are minor and technical, we believe them to be constructive and to merit your consideration.”

Moving?

. . . don’t forget to send AIPG your new address!

Name ____________________________
Organization _______________________
Street _____________________________
City/State/Zip ______________________
New phone numbers
Office ( ) _________________________
Home ( ) _________________________

Please allow six weeks for change to be effected. Only one change notification is necessary for all AIPG publications.

Attach present mailing label here

This handsome AIPG emblem, which can be used either as a tie tack or a lapel pin, is available on order from Headquarters. In gold finish cost postpaid is $14.00; price is $5.75 in a brass finish.
ILLINOIS SURVEY SEEKS CHIEF

The Illinois Board of Natural Resources and Conservation has announced that a search has begun to find a successor for Dr. Robert E. Bergstrom, Chief of the Illinois State Geological Survey. Dr. Bergstrom (C.P.G.S. #3984) has announced that he will retire on August 31, 1983.

The Survey, a division of the Illinois Department of Energy and Natural Resources, operates under the authority of the Board which is chaired by the Director of the Department. The Survey staff, about 200 scientists and technical support personnel, conducts research in many areas of geology and related disciplines of chemistry and engineering.

Candidates for the position must be established scientists with proven capabilities in leadership and administration of a research group, have a background in geology or a related discipline, and be able to attract funding for research. Because the Chief deals regularly with all levels of government, with industry, and with the general public, candidates should be articulate and persuasive in both oral and written communication.

Nominations and expressions of interest should be sent to:

Search Committee Chairman
Illinois State Geological Survey
615 East Peabody Drive
Champaign, Illinois 61820
(217) 344-1481 or 333-5107

The deadline for receipt of all application materials is January 1, 1983.

1983 AIPG ANNUAL MEETING COMMITTEE

Gene R. George, General Chairman of next year's Institute Annual Meeting, set for September 7-10, 1983, at the Americana Snow King Inn, Jackson Hole, Wyoming, has announced the appointment of his Committee Chairman.

For the Wyoming Section, Donald F. Cardinal will serve as Vice Chairman and also as Program Chairman. Gary B. Glass will be Arrangements Committee Chairman. John J. Pedry will be in charge of Social Activities and Richard P. Ortiz will head up Registration.

The Committee will meet as a group with Executive Director Vic Tannehill and hotel staff at the Americana November 17th to settle details, sign contracts, schedule events, and determine meeting room needs.

Checklists and planning ideas to assist the '83 Local Committee are being prepared by the Pasadena contingent.

"METALS" BOOKLET AVAILABLE

The A.I.P.G. Foundation's publication METALS... MINERALS... MINING is an outstanding piece of work; a most readable and attractive production. Its message is a vital one for America and Americans.

Copies can be ordered from The A.I.P.G. Foundation, 7828 Vance Drive, Suite 103, Arvada, CO 80003. Make checks payable to The A.I.P.G. Foundation.

Price lists for METALS... MINERALS... MINING (Postpaid in the Continental U.S.)

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GROUP LIABILITY INSURANCE

The Institute's General Agent reports that an insurance carrier specializing in coverage of this sort will shortly be quoting on a group plan of professional liability coverage for AIPG Members.

A number of Members took the time and trouble to complete and return the questionnaire on professional liability insurance that appeared in the TPG. This information was passed on to the company so that they could tailor a prototype "errors and omissions" professional liability insurance policy to AIPG's needs. They now have the data to develop their quote on rates, coverage, and deductibles. A cost structure will be coming shortly. An announcement of this new service to Members will, hopefully, be made before end of the year.

PROFESSIONAL GUIDE" SPECIAL

The current edition of AIPG's informative, valuable and well-written "Professional Guides and Practices" is now offered as a complete set in three-ring binder for the "close-out" price of $15.00 postpaid. Order from Headquarters.

The set incorporates all of the Institute's current offerings in a sturdy light blue vinyl 2" wide looseleaf binder. The items are tab-indexed. This special offer will provide purchasers with some 200 pages of interesting and readable text at a very reasonable price. Many of the articles are illustrated by charts, graphs or drawings.

Work on the updating and revision of the present AIPG "Professional Guides and Practices" has been going on, under the supervision of Institute Editor Russell R. Dutcher. A number of Member volunteers have reviewed the publication's contents and are assisting in the rewriting. Production of the revised "Guide" was expected this year but has been delayed until 1983.

POSITIONS OPEN

A part-time (32 hours per week) position with the U.S.G.S.
TITLE: Technical Publications Editor GS-1083-9
LOCATION: U.S.G.S., Water Resources Division, California District, Field Headquarters, Laguna Niguel, CA
A full time position with the U.S.G.S.
TITLE: Regional Hydrologist
LOCATION: Northeastern Region Water Resources Division, U.S. Geological Survey, Senior Executive Service (54,755-
64,600 per annum - current pay cap at 58,500 per annum)

For further information contact:
U.S. Geological Survey
Personnel Office MS12
345 Middlefield Rd.
Menlo Park, CA 94025

BEQUESTS TO FOUNDATION

The Directors and Trustees of The A.I.P.G. Foundation suggest that Members who endorse the principles and goals of the Foundation consider remembering it with bequests in their wills. Deferred gifts through wills are practical ways of helping to continue the work and achieve the objectives of the Foundation well into the future. Members in this fashion can make important contributions to the Foundation through their wills.

Of course personal financial management must be planned by those who know your affairs best — you and your lawyer or financial advisor.
STATE REGISTRATION STUDY

The Subcommittee on State Affairs and Registration, John B. Gustavson, Chairman, aimed its efforts this year at both state affairs and registration. They soon concluded that the Subcommittee could provide very little support in the matter of state affairs, partially due to the paucity of such items; partially due to the apparent ability of Sections to handle such affairs on a local basis without support from the national Subcommittee.

In contrast, the subject of registration demanded immediate attention in the form of consultation with and support for a number of AIGP Sections. In addition, it was determined that a status report on State Registration/Certification of geologists had not been prepared since 1975 and that an update was needed both by the AIGP membership and the public in general.

The work of the Subcommittee during the first half of 1982 therefore consisted of research efforts in preparation of this report, support for a number of Sections in their efforts towards better understanding of registration, and finally the preparation of recommendations to the AIGP Executive Committee. A draft of the latter has been prepared for discussion and resolution.

Ten states presently have registration laws of some type with two being particularly favorable to geologists certified by the AIGP, namely Indiana and Alaska. Among the other eight states with registration, California and Arizona are experiencing modest pressures to repeal the registration requirement.

Ten states are in varying stages of active attempts toward registration or at least definition of geologists. Several of these have seen the attempts suffer defeat in 1982, but for varying reasons, including technicalities rather than defeat by actual voting.

COMMITTEE BRIEFS...

All AIGP Committees have been in "high gear" in recent weeks. Much good is being accomplished for the Institute, the profession and the general public thanks to the volunteer efforts of Committee members.

Here are summaries of some recent committee activities:

Governmental Affairs — The regular quarterly meeting of the Committee, chaired by A. Gordon Everett, was held September 10th in the offices of AIGP's Legislative Representative Jim Hamersley in Washington, D.C. An excellent turnout of Members spent the day together reviewing current Federal legislative and regulatory developments of concern and interest, and formulating recommendations for Institute action. Executive Director Vic Tannehill and Washington Representative Russ Wayland were present.

Professional Employment Standards — This Committee, headed by Edward Beaumont, still hopes to either initiate or cooperate with other organizations in the preparation and conduct of surveys.

Ethics — Chairman Bill Park is pleased to report that the Committee currently has no charges of Member misconduct before it.

Subcommittee on External Appointments — Chairman Ken Weaver continues to be alert to Federal appointed positions for which a Member professional geologist might be qualified.

Honors and Awards — Chairman Bud Rue advises that the Committee will meet at Pasadena to consider recommending additional Institute awards.

Member Services — According to Chairman Randy Chew the Committee has inventoried and is continuing to review all services of the Institute to Members, both for dues and at-cost. It will make constructive recommendations by year-end for new or improved services.

Public Relations — Chairman Charles Mankin reports that the Committee has been helping Executive Director Vic Tannehill with various PR projects. It has assisted Ad Hoc Committees as requested. Its members are "on call" to help Sections with their PR. It has helped with publicity on the Annual Meeting at Pasadena. And it is working to reestablish the AIGP Speaker's Bureau.

Membership — Chairman Luke Fournier reports that Members of the Committee continue to assist the Executive Director and Sections in achieving the '82 goal of a net gain of 500 Members and 100 Associates. As of the end of September, AIGP had received 270 Member applications and 44 Associate applications.

EDUCATIONAL AFFAIRS

Chaired by Dick Winar, the Educational Affairs Committee has completed their summary of the results of the 1981 AIGP survey of college Geology Departments (as reported in this issue) and they have made their recommendations for Institute action.

The report was mailed to participating schools last month, with a cover letter from President Turner. The Committee's suggestions for future AIGP educational affairs activities will be considered at the meeting in Pasadena.

The Committee is also working on a proposal for a plan to conduct an evaluation of Undergraduate Geology Departments and to publish these results every two years. This would provide students, faculty, and prospective employers with AIGP's opinion on the completeness of the geological education being offered. This proposal is being refined for further consideration.

INSTITUTE POSITION PAPERS

Ad Hoc Committee Chairman George Davis sent a draft copy of the Groundwater "position paper" to all members of the Executive Committee and has received their comments. This paper will include illustrative photos, charts and statistical tables. A final draft has been completed and the finished publication should be out within the next few months.

The "Hazardous Waste" position paper Ad Hoc Committee Chaired by Ben Willmoth is organized and work is underway. As the Ad Hoc Committee on "Disposal of Radioactive Waste" Chaired by Al La Sala is likewise hard at work on a draft.

1983 AIGP WASHINGTON CONFERENCE
MONDAY, APRIL 18, 1983
THE RAMADA RENAISSANCE
WASHINGTON, D.C.
RADIOACTIVE WASTE DISPOSAL POSITION PAPER
AD HOC COMMITTEE

Albert M. La Sala, Jr., Chairman

Albert M. La Sala, Jr. is a 1953 graduate of Brooklyn College, from which he received a Bachelor of Science degree in geology. After a stint with the New York State Geological Survey, he entered the U.S. Geological Survey as a geologist. His initial assignment was with the Geologic Division in Nevada. Subsequent assignments have been with the Water Resources Division. He conducted several ground-water and water-resources investigations in Rhode Island, Connecticut, and New York. He also held supervisory positions within district offices in New York and Idaho and headed the Miami, Florida, office. In the 1968-69 academic year the USGS supported his attendance at Rensselaer Polytechnic Institute where he did graduate work in environmental engineering. From 1969 to 1973 he worked at the AEC Hanford Reservation on the initial studies related to disposal of high-level radioactive wastes. For the past two years he has been at Columbus, Ohio, having been assigned by the USGS to work with Department of Energy personnel.

Charge

To develop, and assist in producing and distributing, an Institute “position paper” on Radioactive Waste Disposal.

Members

This Ad Hoc Committee includes: Allen F. Agnew, George D. Debuchananne, Benton M. Wilmoth, Serge Gonzales, and Konrad B. Krauskopf.

HAZARDOUS WASTE POSITION PAPER
AD HOC COMMITTEE

Benton Wilmoth, Chairman

Ben saw Army combat service in the Pacific during World War II. He received his Bachelors degree (1950) and Masters degree (1956) in Geology from West Virginia University. From 1952 to 1970 he was with the U.S. Department of the Interior’s Geological Survey and Federal Water Pollution Control Administration and worked on hydrogeologic investigations in the Appalachian area. Since then he has been with the U.S. Environmental Protection Agency as a hydrogeologist and on-scene coordinator for environmental emergencies involving response to spills of oil and hazardous materials. At present he serves as on-scene coordinator for Superfund Immediate Removal work at hazardous waste sites. In March 1982, Ben was the EPA on-scene coordinator for the major emergency removal action at site of a former chemical company in Lock Haven, PA. He is CPC #375 and has been active in both Section and National work, being twice past president of the West Virginia Section and a past chairman of the National Committee on Geology in the Environment.

Charge

To develop, and assist in producing and distributing, an Institute “position paper” on Hazardous Waste.

Members

This Ad Hoc Committee includes: Jeffrey Hynes, Ronald Land-
COLORADO

By John Gustavson, 1982 Section President

Looking back at mid-year on trends influencing our Colorado Section, as well as on the professional geology in general, I do so both with pride and with a certain sadness. We can be proud of the increase in our Section membership and of the continued increase in public respect for the geological profession. On the other hand, we must recognize the increased difficulty with which many of our members earn their living as geologists due to the economic slowdown in both the mining and the oil and gas sectors.

Still, on the positive side, there are new opportunities for Colorado geologists. Some of our members find more and more consulting opportunities with financial institutions and with institutional investors. The institutional investor groups, including insurance companies and pension funds, still hold substantial amounts of cash for which their managers aggressively seek investment opportunities in the energy sector.

The high interest rates and a decade of rampant inflation have made the conventional bond investment unattractive for institutional investors. Instead, investments in low to modest risk oil and gas ventures across a broad diversified front now appear attractive to that very significant type of available capital. While we do not wish to lose some of our Colorado Section members to Hartford, Connecticut, we nevertheless note requirements for many institutions for geological consultation which hopefully can be conducted from this state.

Also, on the positive side is the topping out of the salary spiral. This particular type of inflation has had many of us deeply concerned. Admittedly it has been very flattering and remunerative for many of our members who caught the crest of the spiral and found themselves elevated to higher positions, higher salaries and other benefits. Hopefully, many of these assets have now been converted into long-term equities which may help plug the gaps during more meager times because all AIPG members recognize the cyclic changes of our profession. Unfortunately, the recent boom with the attendant spiraling of promotions and salaries acted much like a tropical hurricane with the sweeping up of just about everybody, qualified or not, and carried geologists to new heights.

Statistically, we, in our profession, follow the same qualification distribution as do other professionals. There are good medical doctors and there are those who are only fair. Same with geologists.

During a boom period, the geologists in the weaker end of our distribution curve find themselves promoted to tasks which are too tough to handle. The backlash from this overexposure not only hurts the individual geologist from an emotional standpoint, but also gives the overall professional a poor image. In short, a boom period like the current one which we have just experienced puts a very substantial stress on our profession.

It is now time to patch the weak spots and for all of us to cooperate. We must dig in and consolidate our newly won positions with additional education and with harder work. Others find that the jobs are more difficult to come by, whether in form of permanent employment or consulting assignments. These who are less fortunate now need all the support which the rest of our group can provide. This support can be financial such as in the form of temporary assignments, or it can be psychological through our taking the time to discuss known job opportunities.

Compassion and understanding together with temporary assignments wherever possible will go a long way toward keeping up the spirit of our colleagues during this temporary slump. Self improvement and diversification will strengthen not only the individual but also our geological profession in general.

OHIO

Our Annual Meeting will be held on Thursday evening, November 18th, at the Rodeway Inn, Columbus. Note the date! Details later.

We welcome three new members:

Dennis D. Hull, CPGS 6073, 14651 Smart-Cole Road, Ostrander, OH 43061
James D. Pennino, CPGS 6064, 739 Paula St., Vandalia, OH 45377
Ernest B. Williams, CPGS 6024, 5300 Spruce Lane, Westerville, OH 43081

Neilson Rudd, a past president of AIPG, is a consultant at Box 176, Put-In-Bay, OH 43456; phone 419-285-7001. He is also rector of the local Episcopal church.

Dick Struble is now in business as Richard A. Struble and Associates, 202 Piedmont Road, Columbus 43214; phone 614-262-7290.

We had hoped to arrange a joint meeting with the Michigan Section this fall, but it had to be postponed because of conflicting schedules. We hope to have such a meeting next spring, probably featuring one of the AIPG’s short courses, as described in TPG for Sept-Oct. Sentiment seems to favor the course in “Business and Report Writing.”

A number of Ohioans responded to the ads that AIPG has been running in Geotimes and elsewhere. Why not get in touch with those you know? No doubt they will appreciate a bit of background information from someone closer to home than AIPG headquarters in Colorado.

Education of a geohydrologist

“Ground water once polluted is gone forever.” — Jay Lehr, 1970s.

“The above statement is NOT TRUE.” — Jay Lehr, talk at Ohio Section luncheon meeting, July 15, 1982. Aquifer restoration is possible and is now being done by several means, which were discussed and illustrated by Jay.

Incidental notes

Attendance at our last three luncheon meetings has averaged 24 persons.

The Ohio Section ranks 8th in membership among the 38 AIPG sections. This newsletter is going to 115 members, 6 associate members, 6 applicants for membership, and 12 who have answered the AIPG ad.

NEXT ISSUE of the newsletter will be January 1983. Send items to the editor, Bob Bates, Geology & Mineralogy, OSU, 125 South Oval Mall, Columbus 43210; 614-422-0235.
ARIZONA

The Arizona Section of AIPG holds four meetings each year at the Francisco Grande Hotel in Casa Grande, Arizona with the next meeting scheduled for November 13, 1982. Interested visitors are courteously invited to attend. Dr. Larry Fellows will be the main speaker. At the next meeting, Ed Dapples will relinquish the office of president to the in-coming president, Joe Shearer. At this time, Ed Dapples serves on the national advisory committee and the executive committee.

Silas “Buzz” Brown is serving his three-year term as a member of the Arizona Board of Technical Registration. In addition to serving the interests of geologists in that office, “Buzz” serves the interests of all candidates for registration whose specialties border the profession of geology. This includes such areas as assayers, engineering geologists, metallurgists and others.

During this year, the Arizona Section of AIPG assumed the responsibility of preparing and grading the Arizona Board of Technical Registration examination for geologists. Parts 1, 2 and 3 of the examination pertain to general geology and Arizona geology whereas part 4 is directed toward the candidate’s field of specialization. At this time, the candidate may select a specialty part 4 examination from those offered which include mining geology, engineering geology, ground water geology and petroleum geology. In the future, an additional group of specialty examinations may be offered but it is not likely that the total number will exceed eight specialty fields.

During June of 1982, representatives of all professions responsive to the Arizona Board of Technical Registration assembled as the Board of Technical Registration Joint Council with headquarters at the office of the Arizona Consulting Engineers Association in Phoenix. The purpose of the Joint Council is to assemble concepts, desires and goals of the member organizations and to advise and aid the Board of Technical Registration as well as to advise and make recommendations to the Arizona legislature and to the Board. For the purpose of the Joint Council, two subcommittees were authorized with one to concentrate on matters pertinent to the Board of Technical Registration and the other to work on matters of legislative interest. Dick Rush is the Arizona Section AIPG representative on the Joint Council.

CAROLINAS

Appointment

Charles Gardner (CPGS 2263), Chief of the Land Quality Section of the N.C. Department of Natural Resources and Community Development has been appointed to the Committee on Dam Safety of the National Research Council, National Academic of Science. His appointment is for an 18 months term effective as of June 1982.

Proposed 1983 N.C. Geologists Registration Act

In 1975 and 1976 a group of geologists (members of AIPG, GSA, AEG, AIME, AAPG) drafted a proposed N.C. Geologists Registration Act. The draft legislation was mailed to all known geologists in North Carolina, and comments were solicited, received, and essentially incorporated into the draft. Generally, strong support and professional unity across specialty boundaries was indicated by the response. By the end of 1976 the draft had been endorsed by the executive committees of all active geological organizations in the State, and the plan was to get it introduced as a bill in the 1977 legislature. However, in 1977 the legislature passed a “Sunset Act” and adopted a moratorium on considering new professional registration boards until sunset review of existing boards was completed. The “Sunset Act” was repealed in 1981, and the legislature could consider adopting a geologists registration act during its next regular session beginning in January, 1983.

At our last meeting we discussed the outlook for existing and prospective state registration laws. Earl Titcomb of Georgia and Burrel S. Whittlow of Virginia presented details on problems and successes in having registration laws passed in those states. At the end of the meeting the attendees voted to pursue ratification of a geologist registration bill in North Carolina with the 1983 legislative session as a goal for passage. Norman Tilford of Ebasco Services, Inc. and President of the Carolinas Section of AIPG agreed to serve as general chairman of the several committees required for this effort.

Copies of the proposed bill along with a questionnaire have been mailed to some 350 geologists. By September 1, 1982, a 30% response had been received, with the great majority favoring Geologists Registration in N.C.

MISSOURI

The 1981 annual meeting of the Missouri section of AIPG was held in Cape Girardeau on October 2. President Bob Knight called the meeting to order at the Sunny Hill Motor Inn.

Jim Williams discussed the status of efforts to achieve registration of Missouri geologists. He explained that of the three options: 1) registration, 2) certification, and 3) definition, the third option appeared to be the one that should be pursued at that time because of financial considerations. The other two options would involve expenses which would be greater than that which could be expected from income from registration fees, although the amount of income would depend upon the number of Missouri geologists who would become registered. A show of hands at the AIPG meeting and subsequently at the AMG meeting, by individuals who anticipated that they would register, confirmed that the numbers justify only an effort at “Definition of a Geologist” at the present time. Six of the 10-member task force on “Definition” are AIPG members (Lou Unier, Jim Williams, Clay Johnson, Jim Danser, Dick Gentile, and Bill Hayes) and their efforts are to be commended.

An executive board meeting of the Missouri section of AIPG was held in Rolla on May 10, 1982 with the following individuals present: Bob Knight, Jim Martin, Jim Williams, and Dick Hagni. The principle topics discussed were: 1) the future of the “Definition of Geologists’ bill, 2) steps to increase membership in the Missouri section, and 3) efforts to increase the activity and visibility of our section. Suggestions resulting from these discussions were:

1) The task force was urged to continue their efforts toward a passage of a Definition of Geologists bill.

2) Wally Dressel has been appointed membership committee chairman.
CALIFORNIA

The 1982 Annual Meeting of the American Institute of Professional Geologists will be held in the Huntington-Sheraton Hotel in Pasadena, California November 10-13. An excellent program of technical papers, workshops and speakers interspersed with festivities, banquets and delightful cultural excursions has been prepared to lure you and your spouse to Southern California at the peak of the Fall Season. This is your invitation to come and join us in the festivities.

From John E. Wolfe, Executive Secretary, State Board of Registration for Geologists and Geophysicists:

The board took the following action at its July meeting:

Mr. Donald Hallinger, a petroleum geologist, was elected president of the board. He is Regional Manager of Exploration for Southern California Gas Co.

Mr. Charles Armstrong, a certified engineering geologist, was elected vice president. He is an Associate Geologist with the California Division of Mines and Geology.

A bill sponsored by the board was signed by Governor Brown in April which will add negligence as a violation of the Geologist and Geophysicist Act on January 1, 1983. It will be an addition to other violations such as deceit, misrepresentation, violations of contracts, fraud or incompetency in the practice of geology or geophysics.

A second bill sponsored by the board was signed by Governor Brown in July and will become effective on January 1, 1983, also. It permits public members to serve on committees and amends the current fee structure. Most significant changes in the fee structure will be an application fee for engineering geology certification and an automatic increase in the license delinquency fee.

A fee of $40 will be charged for engineering geology application. There has not been an application or examination fee charged for certification as an engineering geologist because the original Act did not contain the authority for the board to set an application fee.

The delinquency fee for licenses will be increased from $25 to $40 for both registration as a geologist and as a geophysicist. The current renewal and delinquency fee is $105; on January 1, 1983, it will be raised to $120. The delinquency fee for the engineering geology license will not increase at this time.

QUEBEC

As the result of fruitful discussions at Montreal in conjunction with the AEG meeting there, Institute Members living and working in Quebec Province of Canada are now considering formation of an AIPG Section there. The Institute has a number of Members in the Eastern Canada Area.

Prospects for AIPG membership growth in Quebec are excellent and an organized Section would be a necessary first step in accomplishing that. A Section would also afford opportunities for periodic meetings, educational programs, and a forum for the exchange of views, problem solving, etc.

Headquarters is assisting Members and prospects in Quebec with the formation of a new Section there. If enough Members act affirmatively, the new Section can petition the Executive Committee for recognition.

GEORGIA

Attendance at the last Section meeting joint AIPG/AIME meeting at Milledgeville, GA on August 20th was fairly good.

The Section and the Southeastern Section of the Association of Engineering Geologists sponsored a one-day seminar on the siting, monitoring, liability and geologic/geotechnical implications of hazardous waste disposal. Speakers included a cross-section of consulting, legal, and regulatory agencies. The seminar was held at the Windy Hill Marriott Inn in Atlanta September 17th.

The program consisted of brief technical sessions by personnel from the EPG, Law Engineering, EBASCO Services, Corps of Engineers, Golder Associates, Johnson Well Screens, Engineering Science, and Hansell-Post Attorneys. A panel discussion consisting of ten seminar speakers provided a forum for audience participation.

Earl G. Hoover, Section President, and Edward L. Shrader have completed an intensive five-day course at the Colorado School of Mines, Golden, Colorado. The course was entitled "Economic Evaluation and Investment Decision Methods". Our congratulations to both members.

A. R. "Dick" Henderson has recently resigned from the J. M. Huber Corporation, Macon, Georgia and has accepted a position with the State Oil & Gas Board of Mississippi. We are sorry to see Dick leave our Georgia Section and we wish him every success in this new endeavor.

NEVADA

At last count, the Nevada Section had twenty-one members. I know a few of you quite well; others I may have met once or twice; and others, I do not know at all. I suspect that is a statement all of you can make regarding our Section membership. One way we can become better acquainted is to meet as a group and swap stories. At the same time we can elect other officers to not only share in the smooth operation of the Section, but also to fulfill the requirement to meet annually, placed on our Section by National. I will appreciate hearing from each of you regarding a reasonable time and place that we can meet as a group, perhaps somewhere in Central Nevada during mid-Winter. Several of you responded favorably to the last attempt to meet in Tonopah (Feb. 1982). Perhaps all of us can make the next scheduled gathering. I know it seems silly to elect five or six officers and committee chairman to run a group as small as ours — and that leads me into the third reason for writing.

We simply must try to increase our Section membership. According to the membership lists of other professional organizations like AIME, AGU, GSA, etc., there are over 100 practicing geologists currently residing in Nevada. Yet, we have only twenty-one members and ours is the only organization that certifies the professional status of geologists in Nevada. In the absence of any State registration, it seems important that geologists residing in Nevada join the AIPG. I will attempt to send you a composite list of Nevada's geologists.

Finally, I want to take this opportunity to thank Joe Kenny on behalf of the Nevada Section for the job he has done in organizing our section and serving as President (plus V.P., Secretary, Treasurer, Delegate, etc. al).

Please feel free to contact me at any time.

William E. Nork, President
Nevada Section, AIPG
1983 SECTION OFFICER ELECTIONS

Arizona
President
Joseph E. Shearer
Vice President
Secretary-Treasurer
Frank J. Turek
Screening Board Chairman
Walter E. Heinrichs, Jr.
Newsletter Editor
Frank J. Turek

California
President
William Adent
President-Elect
Donald O. Asquith
Secretary-Treasurer
Jack Sheehan
Screening Board Chairman
Harold M. Suttswold, Jr.
Newsletter Editor
Bruce M. Barron

Capitol (Dist. of Columbia, Maryland, Delaware)
President
George H. Davis
Vice President
Dennis Kostick
Secretary-Treasurer
Jeffrey Szambat
Screening Board Chairman
Gary Melikian

Colorado
President
James R. Muhm
Vice President
Lawrence O. Anna
Treasurer
Stephen A. Krajewski
Secretary
John L. Stout
Screening Board Chairman
Lawrence O. Anna
Newsletter Editor
Ed Warren

Georgia
President
Charles A. Spiers
Vice President
Serge Gonzales
Secretary-Treasurer
Ralph Loughman
Screening Board Chairman
Charles A. Spiers
Newsletter Editor
Ken Nelson

Kansas
President
John R. Richard
Secretary-Treasurer
Thomas E. Ray
Screening Board Chairman
Thomas E. Ray

Kentucky
President
Wallace Hagan
Vice President
John S. Griffin
Secretary-Treasurer
Larry Rhodes
Screening Board Chairman
Avery E. Smith
Newsletter Editor
Al Williamson

Louisiana
President
Ralph E. Wharton
Vice President
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Secretary-Treasurer
Scott M. Daniel
Screening Board Chairman
A. J. Gaudin, Jr.
Membership Chairman
A. J. Gaudin, Jr.
Newsletter Editor
A. J. Gaudin, Jr.

Michigan
President
Peter P. Hudec
Vice President
Elmore E. Elzoroth
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Mississippi
President
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Missouri
President
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Montana
President
William Cranoble
Vice President (East)
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Vice President (West)
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Pennsylvania
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Alan Jacobs
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Leslar La Fountain
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John Grego
Newsletter Editor

Tennessee
President
John M. Wilson
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In the spring of 1981, the AIPG Educational Affairs Committee formulated a ten page questionnaire to survey the status of geological education at the nation's colleges and universities. One chief purpose of the survey was to determine how professional geologists functioning through AIPG might help with problems affecting geological education. Information was requested that pertained to: a) manpower; b) relations between industry and college geology programs; c) problems affecting the quality of faculty, students, and programs; and d) special problems defined by the departments themselves. In May, 1981, the questionnaire was mailed to the heads of degree-granting departments at 486 colleges and universities. In late August, a reminder letter was sent to those chairmen who had not yet responded. By the end of 1981, 258 responses and 237 completed questionnaires were received. The responses from the 237 completed questionnaires serve as the basis for this paper. The ten page questionnaire took considerable time to answer; so responses from over 53% of the schools contacted constitute an unusually high return for this type of survey.

Who responded?

The returned questionnaires represent excellent geographical distribution. Only four states: Delaware, Hawaii, South Dakota, and Wyoming, are not represented by responses. The geology faculty within the responding schools totals to 2091, and the number of geology majors at these schools is 24,930. Most of the geology departments are small: about 43% have less than 5 full time faculty; 34% have between 6 and 10 members; 14% have 11 to 15 faculty; 6% have 16 to 20 members; and only 7% have more than 20 faculty. Most of the larger universities have graduate students who assume significant teaching duties but who are not counted as faculty. Undergraduate degrees in geology are awarded by departments with as few as one faculty member to a high of 87 faculty members. Student to faculty ratios vary from 2 to 1 to over 250 to 1, with about 12 to 1 being average.

Future manpower from the academic viewpoint

Replies were received during the summer and fall of 1981. Most respondents expressed growth-oriented optimism about future jobs for graduates. The vast majority (80%) believed that no oversupply of geology students then existed and that the hiring of geologists would not reach a peak until sometime between 1986 and 1992. However, an even larger majority (83%) recognize the potential for cycles of overabundance and undersupply of geologists and favor some attempt to ameliorate the instability historically inherent in the geological profession. Most respondents (86%) expressed an acceptance of responsibility for getting students employed in geologically oriented jobs.

In 1981 market demand was very high. Over half of the schools reported they were 90 to 100% successful with job placement of graduates with BS degrees and almost 100% success for all graduates with MS and PhD degrees. This strong market demand has also drawn from the departmental staffs of colleges themselves, and 58% of all schools polled (88% of the 10 largest departments) feel that the loss of personnel to industry will adversely affect the future quality of their programs. While 55% of all schools report losing from 16 to 50% of their staff, only 20% of the larger schools report such a huge loss of staff. It would appear that larger schools were less affected by staff reductions.

Slightly over 50% of both large and small departments polled reported that the future need for geologists would have no influence on their departmental plans concerning the numbers of students who would be graduated or accepted. This reply is perhaps because about 50% of the departments had reported that the number of students accepted or graduated was simply out of their control. Thus it would appear that there is more administrative control than departmental control of future geological manpower, and perhaps even more power over programs, appears to be exerted by college and university administrators rather than by geologist-educators. Can we assume the administrators are reacting more to student demand or fiscal considerations?

Relations between industry and college geology programs

Regular presentations by industry are invited by 54% of the departments. At 65% of the schools, interviewers are requested to make presentations in order to tell students what companies expect and want from new graduates. An outside "expert in residence" (sometimes in the position of an adjunct professorship) is maintained at only 18% of schools; yet such a position is filled at 90% of the 10 largest departments. The concept of using outside employed professionals to teach their expertise on a par-time basis was considered at 66% of the departments. In turn, only 31% of departments have considered providing short courses for working professionals. Only 19% of all schools have an advisory board of alumni or industrial representatives; yet 91% feel that such a board can be beneficial to fund raising. Only 24% of the schools have some type of summer employment or student internship program. It is interesting to note that 40% of the larger departments have advisory boards, but only 11% of them have internship or job training programs.

Of the departments responding, 64% consider professional certification of geologists as beneficial, even though only 17% presently have certified professional geologists on their staffs. Others (36%), express the opinion that professional experience is a positive factor in the hiring of faculty. However, industrial experience ranks in the lowest priority as a hiring requirement, even behind personality. The dominant requisite for the hiring of faculty is the PhD.

Over 80% of the colleges encourage or obligate their faculty to publish, and 75% encourage or obligate their faculty to procure external funds. Most departments (94%) permit faculty to consult, and 79% recognize consulting as a good feature.

Factors affecting quality of faculty, students, and programs

In 1981 shortages in university faculty were evident. One of the four most important problems stated by respondents was the need for more and better quality teachers. Industry demand was designated as a significant factor in the loss of faculty at over half the schools. The present (1981) demand for BS level geologists must have also exerted an enrollment decrease in graduate schools. If severe enough, a future shortage in geologists with advanced degrees could result.

The student-to-teacher ratio in most schools is higher (20:1 to 10:1) than the average desired ratios expressed by individual departments (11:1 to 8:1). It would appear that within very small departments (less than three) faculty members must carry abnormally high work loads to provide desired courses for their majors. In addition, demands by the colleges to perform and publish research, and to acquire grant monies places further stress on faculty. Despite the shortages noted by the schools themselves, most are optimistic about their quality, and 62% rate their special subfields of emphasis in geology as good to excellent.

(Continued on next page)
Of the responding departments, 62% favor screening geology-major applicants, but only about 40% presently do so. Of those which perform screening, only one in four will reject more than 20% of its applicants.

Only 40% of departments admitted having specific criteria to qualify prospective geology majors. Overall, there appears to be no uniformity in terms of courses or curricula that one could term as "universally characteristic" for a degree in geology. This is especially true in the supporting sciences (mathematics, chemistry, physics, biology) but is less true within the major. The courses physical geology, historical geology, mineralogy, petrology, structural geology, field geology, paleontology and stratigraphy-sedimentation are required in most schools. Field courses are not required for a degree in 23% of the departments, but 90% of the ten largest schools require field courses — and this same percentage (90%) of the large departments require field camp. Only 63% of the total response indicate field camp is required. Internships and student summer employment programs are actively supported by only about 30% and 24% respectively of the schools replying.

Questionnaire Opinions on Departmental Evaluation by the AIPG

Clearly, most departments do not wish AIPG to become so autocratic that control over geological education by AIPG would be comparable to control by the American Medical Association (AMA) of medical schools (68% were opposed to such control). However, departments overwhelmingly favored both the concept of establishing standards for evaluation and an effort to stabilize the profession so that future graduates are not faced with erratic cycles of job shortages due to saturation of the job market by more geologists than the market will accept. Over 94% of respondents favored curriculum evaluation and most respondents indicated that a ranking of geology departments might even be desirable. Most (62%) indicated that a system of ranking would be useful to students, prospective employers, and would be helpful in relationships between the department and the local college (university) administration. It is interesting to note that despite the clear margin favoring evaluation (85%), respondents were evenly split (50-50) as to whether such efforts would be appreciated by the overall academic community.

Answers of Large and Small Departments

From the questions asked, it generally appears that there are only a very few differences in the answers from all departments and those from only the ten largest departments. Some differences have been mentioned earlier in this report, others follow.

It seems that only 13% of the largest schools agree that greater control should be exercised over who enters the profession; whereas 32% of all schools expressed a positive feeling about more such screening and control.

Concerning the four major problems affecting geology departments, it may be interesting to note that replies from all schools list the following as the most important problems:

- 63% Need more financial support
- 58% Wish more and better staffing
- 57% Want more and better equipment

While the bigger departments want:

- 80% More and better staff
- 60% Better students
- 50% Better accommodations
- 50% Better salaries for staff

If we take some latitude with an interpretation of these percentages, it would appear that the larger departments have: less need for direct financial support but have a greater desire to build bigger and better staffs, and they feel that the quality of their students is not up to par.

More information per Issue, But---

You have noticed that issues of TPG have been combined recently. Initially this was necessary because our new 2nd class mailing permit allows us only 12 mailings per year. The directory sent to you in May was one of these mailings — thus the combined May-June issue of TPG.

The 1982 Executive Committee has mandated that the Institute will live within its means. We will not spend more than we take in — giving us a balanced budget. It is far less expensive to produce and mail one 16 page issue than it is to send out two 8 page issues. The savings are just about $1,200.00. It has been necessary to combine the last six issues into three. We are very sorry about this — it would be great to have more frequent contact with the membership. This is an economy move. I am sure that the Executive Committee and your new editor will do everything possible to return to monthly issues of TPG — one mailing will still be reserved for the Directory.

It has been a pleasure to be on the Executive Committee and to serve as your Editor for four years. Your support has been essential and valued — your criticism, mostly constructive. Many thanks for a very rewarding two terms in office.

Russ Dutcher, Editor

DELAWARE REGISTRATION EXAM

The Delaware State Board of Registration of Geologists announces the availability of an examination that may be used by applicants for registration. If passed, the examination may be used in lieu of the last three (3) of the required ten (10) years of professional experience.

The examination is given upon demand, but no more often than once each calendar quarter. The fee to take the examination is $30.00.

For more details, interested geologists should contact:
Delaware State Board of Registration of Geologists
Carvel State Office Building
820 French Street - 3rd Level
Wilmington, DE 19801

AGI MANPOWER COMMITTEE

In the belief that one great need is for employment information, AGI President John Haun has appointed members to the newly permanent Manpower Committee: John Rold (chairman), Colorado's state geologist; Charles Groat, state geologist of Louisiana; Travis Hughes of Tuscaloosa, Ala.; Gordon P. Eaton of Texas A&M; Kevin M. Barry of Teledyne Exploration Co., Houston; and, Roy E. Roadifer of Mobil Oil Corp., New York.

PUBLIC RELATIONS HANDBOOK

'A public affairs handbook for geoscientists appeared recently, published by the Public Affairs Action Council of the Rocky Mountain Association of Geologists and the Colorado Section of the American Institute of Professional Geologists. It discusses resources for geologists concerned with public affairs, describes 'the political process and you,' 'and reports pertinent current issues.'
WHICH CANDIDATES ARE MOST LIKELY TO SUCCEED IN OVERSEAS ASSIGNMENTS?

One firm estimates that three in four candidates who are professionally qualified for positions in foreign countries lack the necessary personal traits crucial for working successfully overseas.

In their experience, nine characteristics in particular enable an individual to succeed in a foreign country:

- **Source of motivation.** Ambition and desire for a professional challenge, a sense of adventure, professional and personal curiosity are positive motivations. Money is not. In fact, people who are motivated primarily by the attraction of a higher salary in a foreign country are likely to fail.

- **Vitality and spirit.** These include optimism, vigor, enthusiasm, which can be drawn upon in adverse circumstances.

- **Energy.** Physical and mental strength — the ability to work long hours and endure pressure and frustration. Responsibilities tend to be broader and less defined overseas. Tasks that would be assigned to a subordinate in the United States often must be expedited personally in a foreign country.

- **Interpersonal skills.** Many positions, particularly in developing countries, require executives with the combined talents of a teacher, diplomat, and Army officer. Managers must be able to work with and teach a variety of people with a range of skills. They have to gain satisfaction from helping others learn and develop, and not become frustrated by the absence of certain abilities among co-workers.

Executives may have to impart their experience and knowledge to an employer or superior who is not well educated or experienced.

- **Personality.** Warmth, friendliness, a ready smile, an interest in people, the ability to earn the regard and respect of others.

- **Marital status.** A married person, whose spouse shares the enthusiasm for a move to a foreign country and is fully aware of the negative aspects of such a life, has a better chance of adjustment than a single person. People who separate from their spouses in order to work overseas often fail in their new positions.

- **Family status.** The ideal candidate has either pre-school age or grown children, for whom the question of education does not arise.

- **Flexibility.** The ability to adapt to a different culture and work environment. Executives used to well-defined responsibilities and specific reporting relations can have trouble fitting into a new role in a foreign country. This is particularly true where, in the Middle East for example, companies are less organization-oriented. In such cases, look at a candidate’s personal interests for evidence of ability to work in an unstructured environment.

- **Capacity.** The ability to do more than one has done before, to learn on the job, to handle broader responsibility than in the past.

NEW MEMBERS

*Take a minute to call and welcome these new members into the Institute. Invite those from your state to become active in Section affairs.*

ANDERSON, Robert W., CPGS 6120, Washington, PA

BANKS, Roland S., CPGS 6079, Fort Myers, FL

BLACK, Tyrone J., CPGS 6103, Roscommon, MI

BROWN, Kenneth A., CPGS 6102, Wymissning, PA

BROWNLOW, Arthur H., CPGS 6101, Boston, MA

CATACOSINOS, Paul A., CPGS 6100, Bay City, MI

CHAMBERLAIN, C. Kent, CPGS 6119, Littleton, CO

CHRISTENSON, Scott C., CPGS 6118, Oklahoma City, OK

CLEMENTS, Robert H., CPGS 6099, Alexandria, VA

CLOPINE, Gordon A., CPGS 6125, Redlands, CA

CORDRY, Kent E., CPGS 6117, Bridgeport, MO

DEGRAFF, Jerome J., CPGS 6116, Fresno, CA

DILL Jr., William E., CPGS 6124, Latham, NY

DONAHUE, Jack, CPGS 6115, Pittsburgh, PA

DONAHUE, Jessie G., CPGS 6098, Pittsburgh, PA

FAJARDO, Ivan, CPGS 6097, Plano, TX

GARDNER, George D., CPGS 6096, Pittsburgh, PA

GERATH, Robert F., CPGS 6114, N. Vancouver, BC

GRAY, Gary W., CPGS 6113, Oklahoma City, OK

GRUBBS, Ronald L., CPGS 6121, Dallas, TX

HANSON, Eric L., CPGS 6095, Schenectady, NY

HENDERSON, Arnold R., CPGS 6081, Clinton, MS

HORN, Martha S., CPGS 6132, Casper, WY

HUMPHREY, John T., CPGS 66112, Reading, MA

KIMMEL, Grant E., CPGS 6094, New York, NY

KNAPIK, James J., CPGS 6093, Pittsburgh, PA

KRAUSE, Alan J., CPGS 6092, Anchorage, AK

LANE, Richard M., CPGS 6091, Pembroke, NH

LEWIS, Richard W., CPGS 6111, Norman, OK

LEWIS, Robert C., CPGS 6080, Casper, WY

MADR, James M., CPGS 6089, Pittsburgh, PA

MULTER, H. Gray, CPGS 6088, Mendham, NJ

PARKS, James M., CPGS 6090, Walnutport, PA

PHILLIPS Jr., Walter T., CPGS 6110, Homer, AK

SCHRENF, Carl D., CPGS 6123, Studio City, CA

SEGALL, Robert T., CPGS 6122, Lansing, MI

SHEPARD, William M., CPGS 6109, Lakewood, CO

SHEPHERD, William D., CPGS 6108, Houston, TX

SHULTZ, James A., CPGS 6087, Roselle, NJ

SIDLE, William C., CPGS 6086, Oakmont, PA

SPRENG, Walter C., CPGS 6107, Thornton, CO

STANLEY, J. Michael, CPGS 6085, Anchorage, AK

STOVER, Forest R., CPGS 6084, Oklahoma City, OK

SWAINBANK, Richard C., CPGS 6106, Fairbanks, AK

THEISEN, Karen A., CPGS 6083, Brookfield, IL

TOCKMAN, Keith M., CPGS 6105, Littleton, CO

TRUMAN III, William E., CPGS 6104, Lafayette, LA

TWEELER, Eric, CPGS 6082, Fairbanks, AK

Loretta, M., CPGS 6083, Anchorage, AK

### 1982 APPLICANT GOALS — BY SECTION

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### MANUFACTURERS CALL FOR GAS DECONTROL

An organization representing major industrial users of natural gas has called for total, phased decontrol of natural gas by 1985.

The National Association of Manufacturers (NAM) told a House subcommittee that industry uses more than 40 percent of the natural gas consumed in the country and has a vital stake in natural gas policies.

NAM member Gary Furman, director of corporate energy for American Cynamid Co., said the Natural Gas Policy Act of 1978 has "seriously" affected gas exploration, production and price, creating uncertainty about future gas costs and supplies.

### American Institute of Professional Geologists

#### 1983 SECTION DUES — BY STATE

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**MISSING MEMBERS**

Mail from the Institute sent to the following members at their address shown below have been returned without forwarding addresses. If you know where these members can now be reached, please advise Headquarters.

BARNES Jr., John F.
CLAUGHTON, James L.
DIONISIO Jr., LEONARD C.
JOHNSTON, J. K.
LANG, Douglas G.
MEYER, Gary D.
SCHRAMM Jr., Martin W.
SCHULER, Robert H.
SHORT, Ben I.

**1982-84 AAPG - DPA OFFICERS**

AAPG's Division of Professional Affairs has announced that their offices for 1982-84 are: Harry Miller, independent; Midland, Texas, president; Dougald Thamer (CPCS 4099), Mission Resources, Carmel Valley, Calif., vice president; and J. Miller Goodrich (CPCS 3523), Penasco Inc., Fort Worth, secretary-treasurer.

George Boile, Amoco Production Co., Tulsa, will serve as Chairman of the Board of Certification. Anthony Benson (CPCS 4608), Amoco Production Co., Covington, La., will serve as Chairman of DPA's Legislative Committee.
APPLICATIONS RECEIVED

If any member has any recommendations, positive or negative, regarding the qualifications of any of these applicants, please mail your comments to Headquarters within 30 days. Your remarks will be kept confidential. An asterisk indicates Associate.


ALMAEI, Saadi, 10109 Thompkins Place, Oklahoma City, OK 73102. Sponsors: David W. Kirkley, Douglas W. Bell, Jim Griffin, Herb Davis, Bob Jenkins.

*ARGEN III, Ralph J., 400-610 Camelot Court, Pittsburgh, PA 15220. Sponsors: Derek B. Tatlock, James L. Wolfgang, Joanne E. Garvin.


*BEARDEN, Bennett L., 1745 River Road, Apartment 2-C, Tuscaloosa, AL 35401. Sponsors: George W. Swinstead, Jr., Ernest A. Mancini, Gary V. Wilson.


BOURBON, William B., P.O. Box 368, Alpine, TX 79830. Sponsors: George B. Asquith, Ed L. Schrader, H. E. White, Franklin W. Daugherty, James E. Sharp.


*BURTON, P. Jeffrey, P.O. Box 80954, Fairbanks, AK 99078. Sponsors: Ernest N. Wolff, Richard C. Swainbank, Paul A. Metz.


CLINE, K. Michael, 6304 Newburn Drive, Bethesda, MD 20816. Sponsors: Bill Cutcliffe, L. Courtland Lee, Fred Carwell, Marvin Niccum, David Bice.


CONWAY, Stephen W., 8034 Antoine #205, Houston, TX 77088. Sponsors: George P. Walker III, Gerald M. Friedman, Richard Guerrero; Robert L. Mathis; Martin Steinibs.


CZYZEWISKI, Eugene F., 9841 West 105th Avenue, Broomfield, CO 80020. Sponsors: John Donnell, Dave Haddock, James John, Robert Garrigues, Ian Hart.

DAVIS, John D., 10645 West Sundance Mountain Road, Littleton, CO 80127. Sponsors: Philip Towey, Curzie Gadson, Carlos Barkley, Harold Bissell, James Stevens.


*FOLLADOR, Raymond M., 6639 North Umlander Avenue, Pittsburgh, PA 15217. Sponsors: Paul W. Garrett, Jr., Thomas Flaherty, Ill, Jeffery A. Thomas.


FOX, Terry W., P.O. Box 1321, Kanab, UT 84741. Sponsors: J. Michael Faurote, James D. Rasmussen, Donn Pillmore, I. W. Mathisen, Jr., Roger B. Smith.

FREI, Donald P., 2275 Ives Avenue, Reno, NV 89503. Sponsors: Hugh W. Olmstead, James E. McKay, Martin G. Booth III, John Eastlick, Boies Hall.


(CONTINUED ON NEXT PAGE)


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MCCALL, Rosemany, #319 3550 South Harlan, Denver, CO 80235. Sponsors: Donald L. Biebar, Robert T. Terriere, Dow D. Mitchell.

MCKINNEY Jr., W. N., % Amino USA, Incorporated, P.O. Box 94193, Houston, TX 77292. Sponsors: James W. Fowler, Andrew W. Hampf, Stephanie V. Hrabar, Joseph T. Sperrazza, Matthew W. Daura.


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NORRIS, Marc J., Route I Box 264, Huntsville, TX 77340. Sponsors: Roger Rice, Tom Lobert, Gary Parry, Tom Niquette, Gordon Magenhein.


OMAN, Paul, 1533 Silverpines Road, Houston, TX 77062. Sponsors: Rosemary Laidacker, Ralph Batsche, Marjorie Rietti.


POLLOCK, James D., 2305-A Chauvin Drive, Lexington, KY 40502. Sponsors: John Beard, Dave Williams, Jim Neff, Jim Howver, Roy C. Kepferle.


RAHAM, Ernest R., P.O. Box 10-186, Anchorage, AK 99511. Sponsors: Jim Brown, Mike Mitchell, Walt Philips.


ROGERS, Jeffrey D., Department of Geology, Louisiana State University, Baton Rouge, LA 70803. Sponsors: C. C. Groat, Wiley S. Rogers, Don Bebout.


SHANNON, Samuel W., AWIC, Public Health Services Building, Montgomery, AL 36130. Sponsors: Travis Hughes, Tony Neathery, Tom Simpson, Everett Smith, Charles Copeland.

SHOLARS, Michael W., 6985 Ashburn, Houston, TX 77061. Sponsors: Stanley Leventhal, James Wheeler, Jack Colle, R. D. Hughart, Rick Eggelston.


SNYDER, Donald R., Star Route Box 20, Grantsville, MD 21536. Sponsors: Kenneth Weaver, James M. Coffrath, Edward Miser, Dennis Noll, Tom Earl.

(continued on next page)
PARKER HEADS AAPG

A new executive committee is at the helm of AAPG for their 1982-83 fiscal year.

Officers are: John Parker (CPGS 230) consultant, Englewood, Colo. president; John Lockridge (CPGS 2722) independent, Denver vice president; John Amoruso (CPGS 1745) independent, Houston, president-elect; James Hartman (CPGS 3783), Shell Oil Co., New Orleans, secretary; Norman Foster (CPGS 1679) independent, Denver, treasurer; Myron Horn, Cities Service Co., Tulsa, editor; and William Roberts III (CPGS 1374), Gulf Exploration and Production Co., Houston, chairman of the House of Delegates.

Ex-officio members of the AAPG advisory council include: Frank Harrison, Jr. (CPGS 2500), consultant, Lafayette, Louisiana chairman; Tobey Clark (CPGS 936), consultant, Amarillo, Texas, chairman, Honors and Awards Committee; John Haun (CPGS 136), Barlow and Haun, Evergreen, Colo., chairman, Nominating Committee; and Ruffin Rackley (CPGS 45961), consultant, Denver; EMD president.

Those elected to the advisory council include: Larry Woodfork, (CPGS 2370) West Virginia Economic and Geological Survey, Morgantown, Eastern Section; M. O. Turner (CPGS 1046), independent, San Antonio, Texas, Gulf Coast Section; and, George Krumme (CPGS 4065), Krumme Oil Co., Bristow, Okla., Mid Continental Section.

MINNESOTA — WISCONSIN SECTION

The Minnesota-Wisconsin Section held its annual dinner and meeting at the Hudson House in Hudson, Wisconsin, September 30th. There was a cocktail hour and dinner followed by a formal Section meeting. Some forty members, guests, and other interested people attended.

In addition, the Section sponsored a seminar the afternoon before the dinner. The subject was “The Geologist as Expert Witness”. The seminar leader was a lawyer who addressed the legal issues and answered general questions regarding expert testimony as applied to geologists.

AGI OFFICERS FOR 1982-83


The Virginia Section has donated $5,000 to The A.I.P.G. Foundation from the proceeds of the Institute’s 1981 Annual Meeting at Williamsburg which they hosted. At the presentation ceremony held in Fairfax, VA, August 20th (from left): Tom Houston, Bill Townsend, Larry Woodfork, Vic Tannenhil, Ad Honkala, and Jack Kane.

The Professional Geologist
3. Honesty, integrity, loyalty, fairness, impartiality, candor, fidelity to trust, inviolability of confidence, and honorable conduct are incumbent upon every Member, not for submissive observation, but as a set of dynamic principles to guide a way of life.

Section 2 - Relations of Members to the Public

1. A Member shall avoid and discourage sensational, exaggerated and unwarranted statements that might induce participation in unsound enterprises.

2. A Member shall not knowingly permit the publication of his (or her) reports, maps or other documents for any unsound or illegitimate undertaking.

3. A Member having or expecting to have beneficial interest in a property on which he (the Member) reports must state in his (the) report the fact of existence of such interest or expected interest.

4. A Member shall not give a professional opinion or submit a report without being (as) thoroughly informed as might be reasonably expected, considering the purpose for which the opinion or report is requested.

5. A Member may publish dignified business, professional or announcement cards, but shall not advertise his work or his accomplishments in a self-laudatory, exaggerated or unduly conspicuous manner.

6. A Member shall not issue a false statement or false information even though directed to do so by (an) employer or client.

Section 3 - Relations of Members to Employer and Client

1. A Member shall protect, to the fullest possible extent, the interest of his (an) employer or client so far as is consistent with the public safety and welfare and his (the Member's) professional obligations and ethics.

2. A Member who finds his obligations to his (an) employer or client conflict with his professional obligations (standards) or ethics should have such objectionable conditions corrected or resign.

3. A Member shall offer to disclose to his (a) prospective employer or client the existence of any (owned or controlled) mineral or other interest which he holds (may) either directly or indirectly, (have) having a pertinent bearing on such employment.

4. A Member shall not use, directly or indirectly, any employer's or client's confidential information in any way which
is competitive, adverse, or detrimental to the interests of employer or client.

5. A Member retained by one client shall not accept, without client's written consent, an engagement by another if the interests of the two are in any manner conflicting.

6. A Member who has made an investigation for an employer or client shall not seek to profit economically from the information gained, unless written permission to do so is granted, or until it is clear that there can no longer be a conflict of interest with the original employer or client.

7. A Member shall not divulge information given him in confidence.

8. A Member shall engage, or advise him (an employer or client to engage, and cooperate with, other experts and specialists whenever the employer's or client's interest would be best served by such service.

9. A Member shall not accept a fee for referring an employer or client to a specialist or for recommending geological services other than his (or her) own.

10. A Member shall make an effort to issue professional advice primarily within the Member's expertise. An employer or client shall be notified if any professional advice outside of the Member's expertise is issued.)

Section 4 - Relations of Members to Each Other

1. A Member shall not falsely or maliciously attempt to injure the reputation or business of another.

2. A Member shall give credit for work done by others to whom credit is due and shall refrain from plagiarism in oral and written communications, and not knowingly accept credit due another.

3. A Member shall not use the advantages of salaried employment to compete (unfairly) with another member of his (the) profession; the use of such advantages as tax-sheltered facilities, equipment, privileged information and personnel is deemed to be unethical practice.

4. A Member shall endeavor to cooperate with others in the profession and encourage the ethical dissemination of geological knowledge.

5. A Member having specific knowledge of unethical practices of another geological scientist shall not recommend him (that individual) for professional services to a client or employer, and shall avoid all future association with the individual.

Section 5 - Duty to the Institute

1. Every Member of the Institute shall actively seek to prevent the election to membership of those who lack moral character, who have not followed these standards of ethics, or who do not have the required education and experience.

2. It shall be the duty and professional responsibility of every Member not only to uphold these standards of ethics by precept and example but also, where necessary, to encourage by counsel and advice to other Members, their adherence to such standards.

3. It shall be the obligation of any Member having positive knowledge of a departure from these standards by another Member, to bring substantiated evidence of such departure to the attention of the Institute so that it can inform the Member of the problem and suggest compliance with these written standards.

4. By applying for or continuing membership in the Institute, every Member agrees to uphold the ethical standards set out in this Code of Ethics.

ARTICLE IV. MEMBERSHIP

Section 1 - The Membership of the Institute shall consist of geological scientists who qualify by standards of (education) training, experience and integrity, as each is defined in the Bylaws, and who subscribe to the Constitution and the Code of Ethics of the Institute. Members of the Institute shall be known as Certified Professional Geological Scientists.

Section 2 - Other classifications of affiliation with the Institute and the qualifications, designations and limitations thereof, shall be established by the Bylaws of the Institute.

ARTICLE V. OFFICERS

The officers of the Institute shall be the President, Vice President, President-Elect, Secretary-Treasurer, and Editor. Each officer, except the President, shall be elected at large by a vote of the Members as provided in the Bylaws.

ARTICLE VI. MANAGEMENT

Section 1 - The affairs of the Institute shall be managed by an Executive Committee assisted by the Advisory Board and the Policy Board: (Inter-Society Advisory Group).

Section 2 - The Executive Committee shall be constituted as follows: (a) Five (5) officers, consisting of the President, Vice President, President-Elect, Secretary-Treasurer and Editor; (b) six (6) (four) (4) Delegates chosen from the Advisory Board; (c) the Chairman of the Inter-Society Advisory Group; and (d) the President and Vice-President (one member of the Executive Committee of the American Geological Institute. The corporate affairs of the Institute shall be
conducted by the Executive Committee, which shall meet at least twice each calendar year and shall hold such required meetings in the 2nd (second) and 4th (fourth) quarters respectively. A quorum of the Executive Committee shall consist of six (6) Members. The detailed functions and responsibilities of the Executive Committee shall be provided for [prescribed in the Bylaws. Each Member of the Executive Committee shall have an equal vote.

Section 3 - The Advisory Board shall consist of the President-Elect, who shall be its Chairman without vote, and a group of Institute Members selected annually from the Sections of AIMG as provided in the Bylaws.

Section 4 - The Inter-Society Advisory Group shall consist of Institute Members selected annually (by and from the Member Societies of the American Geological Institute as provided in the (ARTICLE VII Section 1 of the) Bylaws.

ARTICLE VII. DISPOSITION OF ASSETS

The American Institute of Professional Geologists is a non-profit organization. In the event of the dissolution of the Institute, the Institute shall distribute any assets remaining after the discharge of all liabilities, for charitable scientific, or educational purposes in strict compliance with exemption provided under Section 501 (c)(6) of the Internal Revenue Code of 1954. It is recognized that, under these circumstances, no Member of the Institute shall have any rights or interest in or to the property or assets of the Institute.

ARTICLE VIII. BYLAWS

The Bylaws as appended hereto are hereby adopted and may be amended, enlarged or reduced as provided in the Bylaws.

ARTICLE IX. AMENDMENTS

This Constitution may be amended by the Membership; provided that the proposed amendment must be in writing and must have been presented and debated at an annual meeting of the Institute. The vote on any such amendments shall be conducted by mail ballot. The Secretary-Treasurer of the Institute shall mail each Member of the Institute a copy of the proposed amendment and an appropriate ballot. A favorable vote by a majority of all votes cast and received by the Institute within sixty (60) days after mailing of the ballot, shall be required for the adoption of any amendment which shall become effective immediately.

ARTICLE X. PARLIAMENTARY AUTHORITY

"Robert's Rules of Order", (newly revised) by Henry M. Robert, as from time to time amended, shall govern the proceedings of all bodies of the Institute except where otherwise specified by the Bylaws.

BYLAWS

ARTICLE I. MEMBERSHIP

Section 1 - Classification

The Membership of the Institute shall consist of one class, to be known as "Member", each of whom shall hold the title of "Certified Professional Geological Scientist". (A Member may be designated as "Honorary" or "Emeritus" Member by majority vote of the Executive Committee.)

Section 2 - Requirements

Members of the Institute shall be geological scientists who have the training-experience-and-personal-integrity (qualifications) described in Article I, Section 3 of these Bylaws, whose applications for membership have been submitted to a Screening Board and approved as hereinafter provided by Article I, Section 4, and who, after admittance to the Institute, remain in good standing therein.

Section 3 - Qualifications

The qualifications for membership in the Institute are:

A. Training (Education)

1) Graduation from an accredited institution of higher learning approved by the Executive Committee, with major study in geology, geophysics, geochemistry or geological engineering, with a minimum of thirty (30) semester or forty-five (45) quarter hours in geology, geophysics, geochemistry or their subdivisions; or

2) Graduation from an institution of higher learning approved by the Executive Committee, with major study in petroleum engineering, mining engineering, or other (appropriate) branch(es) of engineering, or in physical or biological science, with a minimum of thirty (30) semester or forty-five (45) quarter hours of undergraduate study in geology, geophysics, geochemistry or their subdivisions. For purposes of ascertaining such qualifications, physics and mathematical sciences shall be considered as a subdivision of geophysics provided, however, that it shall be demonstrated to the unanimous satisfaction of the Executive Committee that the applicant's post-graduate training (education) and/or experience have been preponderantly (primarily) in fields of geology, geophysics, geochemistry, or their subdivisions and that his (the applicant's) principal interest(s) lie in these fields, or
3) In lieu of the above, an application which (applicant shall) be considered qualified under this Section, upon unanimous vote of the Executive Committee, if he (the applicant) can demonstrate to its satisfaction, or a Committee of Examiners duly appointed by it, that he (the applicant) has acquired sound knowledge and proficiency at least equivalent to that of a college graduate having a Master's degree majoring in a field of geological science.

B. Experience

A minimum of five (5) years of experience in geology, geophysics, geochemistry, geological engineering, or other geological science after the award of a baccalaureate degree or, in the event that a baccalaureate degree is not awarded, after the completion of the educational requirements specified in paragraph A of this Section 3, during which period the applicant has demonstrated professional competence, under responsible supervision or self-employment. In the fulfillment of this requirement, one year of credit shall be allowed for the award of a Master's degree, and an additional year of credit shall be allowed for the award of a degree at the doctoral level. In no case shall the total academic credit exceed two (2) years.

C. Personal Integrity

1) A sustained record of adherence to highest professional and ethical standards, attested to by at least five (5) professional geological scientists, at least three (3) of whom are Members of the Institute, having equivalent knowledge of the applicant's qualifications, integrity and conduct, and;

D. Continuing Society Membership

1) Continuing (full) membership in a Member Society of the American Geological Institute or other qualified Society approved by the Executive Committee.

Section 4 - Admission to Membership

A. Procedure

Application for membership shall be submitted in writing to the Secretary-Treasurer on a form authorized by the Executive Committee. The names of the applicants shall be submitted by mail to all Members of the Institute at intervals to be determined by the Executive Committee. An objection to any applicant by a Member shall be submitted in writing to the Executive Director within thirty (30) days of the official mailing date of the circularization of the name of the applicant to the membership, with a full statement of the reasons for the objection. When an application is complete with all supporting material, but no less than thirty (30) days after the applicant's name has been transmitted to the Members, the application file shall be sent to the appropriate Screening Board which, after adequate review, shall forward the application file to the Executive Director with its recommendations. If the Screening Board is unanimous in its approval of the applicant, the application file shall be transmitted for review and recommendations by three (3) Officers of the Institute. If no objection to the applicant is made by the reviewing Officers, the applicant shall be notified of his election to membership, and the date of notification shall be the official date of his certification as a Certified Professional Geological Scientist. An application which is not approved by all three (3) reviewing Officers, shall be transmitted to the Executive Committee for final action. Approval of such a case shall require a three-fourths (3/4) favorable vote of the Executive Committee, which shall advise the applicant of its action. If the applicant requires unanimous approval of the Executive Committee as provided in Article I, Section 3A 3), such approval may be granted notwithstanding the recommendations made by the Screening Board, and the applicant shall be notified of his election to membership.

B. Any applicant rejected in the screening and approval process may file a written request for review with the President and, thereupon, be given a hearing before the Executive Committee at its next scheduled meeting so that the issue of the action previously taken may be conducted. The applicant may produce evidence and witnesses may be questioned concerning charges, if any, and a final decision be rendered.

Section 5 - Rights of Members

A. General

All Members shall have the right to vote, to hold office, to announce their affiliation with the Institute on professional cards, professional reports or otherwise consistent with dignified professional practice, to use the official Seal of Certification of the Institute in the manner authorized by the Executive Committee, and to receive the official publications of the Institute.

B. Seal of Certification

Any Member in good standing who wishes to use the Seal of Certification approved by the Executive Committee may obtain a personalized seal by making application to the Executive Committee and accompanying the application with (payment), a deposit in the amount required by said Committee. The Seal of Certification shall remain the property of the Institute and shall be returned upon termination of membership. Whereupon the amount of deposit-in-the-amount (30) days minus the cost of the seal will be refunded. A Seal Certificate may be obtained by any Member desiring one by application and payment to the
Section 6 - Duties of Members

A. Maintenance of Standards

It shall be the duty of all Members to seek to maintain high standards of competence and ethics established by the Institute. This policy shall apply to the Member's professional activities and his/her relationships to fellow Members. If a Member determines that he (who) cannot abide by the requirements of the Institute he shall resign.

B. Complaints by Members

1) If a Member knows, or believes, that another Member is not abiding by the requirements of membership or the Code of Ethics of the Institute it is his (the Member's) duty to present a fully-documented report, under oath, to the Executive Committee.

2) Any complaints or charges filed by a Member shall be investigated by the Executive Committee during which time all reports and information, including the names of the Members involved, shall be held in confidence by the Committee. The Executive Committee shall either dismiss the complaint as not well founded, notifying the charging party in that regard, or shall refer the charges to the Ethics Committee for appropriate hearings prior to rendering a final decision as provided in Article IX.

Section 7 - Suspension or Termination

A. Resignation ("Without Prejudice")

Any Member may resign by submitting his (a) written resignation to the Institute. The resignation shall be without prejudice if the Certificate of Membership, Seal of Certification and other insignia belonging to the Institute are surrendered and all dues and obligations to the Institute are paid. The resignation shall be accepted by the Secretary-Treasurer of the Institute, who shall advise (and the) resigning Member shall be advised that the privileges of the Institute have been terminated. "Without prejudice" is defined as a condition under which the former Member has no obligations to the Institute in any form or manner, and the Executive Committee has acknowledged this status.

B. Suspension

Any Member may be suspended, at any time, for failure to pay dues for a period of ninety (90) days after the due date thereof, and shall be notified of his (the) suspension. Thereupon his (the) right to vote shall be automatically suspended for the payment of back dues within one year after they become due. (All) Rights including the right to vote shall be automatically restored. (upon payment of unpaid dues

Section 8 - Reinstatement

A. By Application

Any person who has ceased to be a Member by resignation or suspension may be reinstated by (re)applying for membership anew, and by paying him (paying his or her) outstanding dues or obligations (. . .) to the Institute for the year in which he was suspended.

B. By Executive Action

The Executive Committee, by unanimous vote, may reinstate a former Member under exceptional circumstances.

Section 9 - Affiliation

Provision is hereby made for the affiliation with the Institute of those (a) geological scientists who fulfill(s) all the requirements for full membership except the experience requirement and the requirement for full membership in an AGI Member Society (or other qualified society approved by the Executive Committee.) Such (a) geological scientist shall be known as an "Associate".

A. Requirements

within one year of the due date.)

C. Expulsion

Any Member who has been found guilty by the Executive Committee of violating the Code of Ethics, the Constitution or Bylaws of the Institute, or who shall have conducted himself in a manner (whose conduct in) unbecoming a Certified Professional Geological Scientist, shall be subject to expulsion upon a recommendation of the Ethics Committee and the final decision of the Executive Committee. (In this connection, any matter, conduct or thing that, in the judgment of the Executive Committee, is injurious (harmful) to the best interest of the Institute, shall be held to be unbecoming a Certified Professional Geological Scientist.) Any member expelled from membership shall forfeit all rights and privileges of the Institute. Such expulsion shall be exercised only after the accused member has had a fair hearing at which he (the Member) has a right to testify personally before the Ethics Committee and to confront him (any) accusers. A Member may be expelled for any cause deemed by the Executive Committee as adverse to the best interests of the Institute.

D. Termination "With Prejudice"

A termination of any kind is recorded as being "with prejudice" if the terminated Member fails to pay his (the Member's) outstanding debts to the Institute, fails to return his (the) Certificate, Seal of Certification or other insignia belonging to the Institute, or fails to satisfy any other obligation to the Institute.
An Associate shall be a geological scientist; 1) who has, as a minimum qualifications, the training described in Article I, Section 3 of the Bylaws; 2) whose application is sponsored by three (3) members of the profession, one (1) of which must be a Member of the Institute; 3) who is affiliated with an AGI Member Society, the class of affiliation required being that which is granted by said Societies to such geological scientists; 4) who, after having been granted Associate status, remains in good standing until the experience requirements described in Article I, Section 3B of the Bylaws have been fulfilled.

B. Admission

Application for Associate status with the Institute shall be submitted to Institute Headquarters on a form authorized by the Executive Committee. The application shall be recorded and, when complete, shall be transmitted to three (3) Members of the Executive Committee for review and recommendations. If the application is approved by three (3) Members of the Executive Committee, the applicant shall be granted Associate status and so informed by the Executive Director. If any of the three (3) reviewers object to the application, the application shall be transmitted to the entire Executive Committee for final decision, and must receive an approval vote of three-fourths (3/4) of the Executive Committee before the applicant is granted Associate status.

C. Rights and Responsibilities

Associates shall have the right to vote and hold office in the Sections, to serve on Institute committees that are not responsible for the screening or processing of any application or the review of confidential information regarding any Member, and to receive all official publications of the Institute. No Associate shall have the right to vote or hold office in the Institute, to use the Seal of Certification or to use the title "Certified Professional Geological Scientist."

D. Suspension or Termination

The conditions and processes for suspension or termination from Associate status shall be the same as those described for Members in Article I, Section 7 of the Bylaws, except for the addition of the following:

1) An Associate shall be automatically expelled from the Institute if he is found guilty of using (the Associate used the title "Certified Professional Geological Scientist."

2) An Associate who has fulfilled the experience requirement for membership in the Institute as provided in Article I, Section 3B, shall have six (6) months after fulfilling the experience requirement in which to apply for membership in the Institute; or his (or her) affiliation with the Institute shall be automatically terminated.

E. Reinstatement

The conditions and processes for reinstatement to Associate status shall be the same as those described for Members in Article I, Section 8 of the Bylaws.

ARTICLE III: SPECIALTY-CERTIFICATION BY CERTAIN OTHER ORGANIZATIONS

The Institute shall recognize specialty certification of Members in the specialties of the various disciplines of the geological sciences provided that the Executive Committee, or boards of the organizations representing these specialties, namely the American Association of Petroleum Geologists, the Association of Engineering Geologists, the Association of American State Geologists and the Society of Exploration Geophysicists, shall have determined by written formal action transmitted to this Institute that the creation and certification of any such specialty certification is in furtherance of the public welfare as affected by the geological sciences. The requirements and qualifications for specialty certification shall conform to the requirements for membership in the Institute. Certification of proficiency in a specialty granted to a Member shall be in no way be construed as an indication that another Member, who has not requested and/or been granted such specialty recognition and certification in any way, is equivalent to such specialty if he feels that it within the Code of Ethics of the Institute he is so qualified.

ARTICLE IV: MANAGEMENT

The affairs of the Institute shall be managed and operated by the Executive Committee with the assistance of the Advisory Board, the Inter-Society Advisory Group, Standing and Special Committees and local Sections.

ARTICLE IV: OFFICERS

As provided by the Constitution, the Officers shall be the President, Vice President, President-Elect, Secretary-Treasurer and Editor.

Section 1: Nomination

Two or more nominees for each of the Officers to be elected for the ensuing year shall be approved by the Executive Committee from among a list of Members in good standing either submitted (to it) by the Nominating Committee not less than ninety (90) days before the Annual Meeting (nominated by the Executive Committee) or included in nominations that have been submitted to the Secretary-Treasurer,
supported by petitions signed by not less than fifty (50) Members in good standing, or not less than ninety (90) days before the Annual Meeting. The approved ballot shall be mailed to all Members not less than sixty (60) days before the Annual Meeting.

Section 2 - Election

A. The Vice President (and) President-Elect and the Secretary-Treasurer shall be elected each year. The Secretary-Treasurer and the Editor shall be elected in alternate years for a two-year term. The duly elected Officers shall assume office on the first day of January of the year immediately following their election, and continue in office until their respective successors have been elected and qualified.

B. Election shall be by plurality vote (the majority) of all qualified ballots (cast.) In order to be counted, ballots must be received at Institute Headquarters at least thirty (30) (fifteen (15)) days before the Annual Meeting. Ballots of Members who are delinquent in payment of dues on the date of counting will be declared invalid.

Section 3 - Terms of Office

No Member shall hold the office of President or Vice President for more than two (2) consecutive years. No Member shall hold the office of Secretary-Treasurer for more than three (3) years. A Member shall not hold the office of the Editor for more than four (4) consecutive years.

Section 4 - Duties and Powers

A. President

The President shall preside at all meetings of the Institute and of the Executive Committee. He (and) shall perform the duties customary to his (the) office. The President shall appoint all committees and boards of any type and their chairmen, with the advice of the Executive Committee, and shall be an ex-officio member of all such boards and committees.

B. Vice President

The Vice President shall have and assume the powers and duties of the President in the event of the absence, (resignation, death) or disability of the President and such other duties as are required of him by the Executive Committee.

C. President-Elect

The President-elect shall serve for one year as such and, in the following year, he shall assume the office of President. He (The President-elect) shall have no administrative authority except (be as) a member of the Executive Committee and the (the) Chairman of the Advisory Board. (4) He (The President-elect) shall be responsible for the preparation of the budget for the ensuing fiscal year. (and selection of the location of the Annual Meeting for the next available Annual Meeting date)

D. Secretary-Treasurer

The Secretary-Treasurer shall act as the Secretary of the Institute and the Executive Committee and shall keep the records of the proceedings (and) He shall perform such other duties as the Executive Committee may direct. The Secretary-Treasurer shall have custody of the Corporate Seal of the Institute.

The Secretary-Treasurer shall collect and disburse all funds of the Institute, except as otherwise directed by committee. All funds, securities and other investments of the Institute shall be the Executive Committee. All funds, securities and other investments of the Institute shall be deposited, in the name of the Institute, in the custody of a bank or trust company designated by the Executive Committee. The Secretary-Treasurer shall keep complete and accurate records of all receipts and disbursements and other financial transactions and of the funds, securities, and other financial transactions and of the funds, securities, and other investments of the Institute, and shall submit all reports required by the laws of the State of Colorado and an annual report, and such interim reports, as may be required by the Executive Committee.

E. Editor

The Editor shall be in charge of the publications of the Institute, shall have authority to solicit, (edit, and) and reject material for publication, subject to policy direction by the Executive Committee. He (The Editor) may appoint Assistant Editors to serve during his (the) term of office, and shall submit an annual report of his business to the Executive Committee.

F. (Filling Unexpired Terms)

In the event of the resignation, (death) or inability of any elected Officer (other than the President) to complete his (a) term of office, the Executive Committee shall appoint a Member to complete the unexpired term of the Office, except that in the event of the resignation or inability of the President-Elect to complete his (the) term of office, the Executive Committee shall call for a special election by the membership to fill the vacancy.

ARTICLE V. EXECUTIVE COMMITTEE

Section 1 - Members

The Executive Committee shall consist of the President, Vice President, President-Elect, Secretary-Treasurer, Editor; four (4) Delegates from the Advisory Board; the Chairman of the Inter-Society Advisory Group; and one member of the Executive Committee of the American Geological Institute.

Section 2 - Duties

The Executive Committee shall consist of the President, Vice President, President-Elect, Secretary-Treasurer, Editor; four (4) Delegates from the Advisory Board; the Chairman of the Inter-Society Advisory Group; and one member of the Executive Committee of the American Geological Institute.
Section 2 - Duties

A. Conduct of Business

The duties of the Executive Committee shall be to conduct all the corporate business of the Institute, to formulate policy, coordinate the activities of the Sections and the Inter-Society Advisory Group and the Advisory Board, and promote the interest of the Institute. The Executive Committee shall be convened by the incoming President at the close of the Annual Meeting and shall establish its procedures for the forthcoming year.

B. Executive Director

Executive Committee policies shall be implemented by the Executive Director who shall have charge of the Institute headquarters and staff personnel as authorized by the Executive Committee. The Executive Director shall be the person to whom all official notices to the Institute will be addressed. He shall be responsible for the physical custody of all official documents held in repository at Institute headquarters. He shall be under the personal direction of the President. He will (and shall) assist in the work of all committees to insure the effectiveness of all activities of the Institute. He (The Executive Director) shall be appointed by and shall serve at the pleasure of the Executive Committee.

ARTICLE VI. ADVISORY BOARD

Section 1 - Members

A. The Advisory Board shall be composed of one (1) delegate from each Section of the Institute. Each delegate shall be either the President of the Section or a designated representative from the membership of his (that) Section's Board of Directors or Executive Committee.

B. Each delegate to the Advisory Board shall have one or more votes based on the membership of his (the delegate's) Section (as of the first of the month preceding the month of the Annual Meeting) Each Section shall be entitled, upon organization, to one (1) vote, and additional votes for each one hundred (100) Members of the Section or majority fraction thereof. The scale of representation intended shall be as follows:

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<th>Section Members</th>
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and continued for each additional increment of 100 as required. The delegates to the Advisory Board shall be selected prior to the Annual Meeting to serve on an annual basis beginning with the first day of January next following their selection.

C. The Chairman of the Advisory Board shall be the President-Elect of the Institute.

Section 2 - Duties and Powers

A. It is the duty of the Executive Committee to recommend to the Advisory Board the adoption of policies on membership, certification or any other matter affecting the Institute. It shall also assume such other advisory responsibilities as may be requested by the Executive Committee.

B. The Advisory Board for the succeeding annual period shall be convened by the President-Elect at the time of each Annual Meeting for the purpose of organization, election of its delegates to the Executive Committee and for meeting ex-officio with the then current Advisory Board.

C. Each Advisory Board shall elect from its membership three (3) delegates (four (4) delegates) to the Executive Committee, each to serve a two-(2)-year (one (1) year) term of office, so as to result in six (6) Advisory Board delegates serving staggered-two-(2)-year-terms.

ARTICLE VII. INTER-SOCIETY ADVISORY GROUP

Section 1 - Members

A. The Inter-Society Advisory Group shall be composed of members selected annually (and consecutively) from each Member Society of the American Geological Institute, whose individual members shall be eligible for certification by the AGI, or which society may otherwise be deemed eligible for representation by a majority vote of the Executive Committee of the Institute. Each such society shall be represented by two (2) members on the Inter-Society Advisory Group.

B. The President of the Institute, with concurrence of the Executive Committee, shall elect (appoint) from its (the ISAG) membership a Chairman who shall be a (Member of the Institute. The Chairman of the ISAG shall also be a) voting member of the Executive Committee of the Institute.

Section 2 - Duties and Powers

A. The Inter-Society Advisory Group shall make recommendations to the Executive Committee with respect to the external relations of the American Institute of Professional Geologists with other Member Societies of the American Geological Institute.
B. The Inter-Society Advisory Group shall coordinate the specialty certification activities of the other societies of the American Geological Institute.

C. The Inter-Society Advisory Group shall review and recommend long range objectives for consideration of the Institute as a professional organization.

D. The Inter-Society Advisory Group shall undertake such additional studies as may be requested by the Executive Committee, and as are not normally within the purview of the Advisory Board.

ARTICLE VIII. COMMITTEES

Section 1 - Standing Committees

Standing Committees provide a continuing study of problems, perform work required by the Executive Committee, and inform and advise the Executive Committee of developments in their subject areas. A member of the Executive Committee shall serve as Executive Liaison with each Standing Committee. (The Chairman of) each Standing Committee shall report to the Executive Committee at the Annual Meeting, or at any time designated by the Executive Committee. The Executive Committee may add or delete Standing Committees as needed. The Standing Committees of the Institute shall include, but not be limited to: Honors and Awards Committee-Employee’s Retirement Fund Trustees; Ethics Committee; Legislative-and-Regulatory-Committee; Membership Committee; and Professional Employment Standards Committee; Annual Meetings, Constitution & Bylaws, Educational Affairs, Educational Services, Governmental Affairs, Member Services, and Nominating.)

Section 2 - Ad Hoc Committees

The President shall appoint such ad hoc committees as may be needed, each with sufficient number of members to study the assignment as directed by the Executive Committee and with instructions to make a report, or reports, at specific intervals or within a specific time. A member of the Executive Committee shall serve as Executive Liaison with each ad hoc committee.

ARTICLE IX. GRIEVANCE PROCEEDINGS

Section 1 - Investigation

Charges of misconduct in violation of the Constitution and Bylaws of the Institute shall first be submitted in writing to the Executive Committee at Institute Headquarters, by a Member in good standing, with a full statement of the evidence on which the charges are based. (At the discretion of the President) the statement of charges and evidence shall (may) be transmitted to the Ethics Committee for examination, investigation and recommendation. If, in the judgment of the Ethics Committee, the facts warrant, the Ethics Committee shall file with the Executive Committee formal charges against the accused Member.

Section 2 - Notice of Hearing

As soon as may be (possible) after receipt of such formal charges, the President shall appoint a Hearing Board of three (3) Members, including at least one (1) former President of the Institute. Within fifteen (15) days of appointment, the Hearing Board shall fix a date and place for hearing the formal charges and notify the accused Member in writing, mailed to him by registered mail at-his (to the) last known address not less than thirty (30) days before said date together with a copy of the formal charges.

Section 3 - Hearing

On the day fixed for the hearing, the accused Member may appear with legal counsel before the Hearing Board, hear any witnesses called in support of the charges, and, at-his option, cross-examine the same, present witnesses on his-own (the Member’s) behalf, and submit oral or written statements (.) in-his-behalf. The Ethics Committee and the Executive Committee may likewise present witnesses and have the right to cross-examine. The accused Member may, by registered mail, postmarked not less than ten (10) days prior to the date of the hearing, addressed to the Chairman of the Hearing Board at Institute Headquarters, waive personal appearance and request the Hearing Board to adjudge the matter on the basis of a written statement of his defense accompanying such letter. Failure of the accused Member to appear, or to submit a waiver letter and a written defense, shall not prevent the Hearing Board from rendering final advisory judgment and the Executive Committee from action on the basis of the evidence available on the hearing date.

Section 4 - Executive Committee Action

The advisory judgment of the Hearing Board shall be submitted to the Executive Committee for final action. The Executive Committee shall take whatever action it deems appropriate to the seriousness of the misconduct, which may be admonition, temporary suspension, or expulsion of the accused Member. A report of the Executive Committee action shall be transmitted to the Members of the Institute.

Section 5 - Resignation

Resignation by the accused Member from the Institute, at any stage in the foregoing described proceedings, shall automatically terminate the proceedings. Following resignation, the accused Member so resigning, shall not be eligible to be reinstated to membership under any circumstances in the future. (May be reinstated only by unanimous vote of the Executive Committee.)

Section 6 - Expulsion

Members expelled from the Institute under these proceedings shall not be eligible for reinstatement to membership under any circumstances in the future. (The Executive Committee may expel an accused Member under these proceedings. Also, any Member convicted of a felony is automatically suspended until all appeals are completed, at which time...
the accused Member is automatically expelled if the conviction is not overturned. If the conviction is overturned on appeal, (the Member) shall be reinstated to the time of suspension (at the discretion). The expelled Member may be reinstated only by a unanimous vote of the Executive Committee.

ARTICLE X

REPRESENTATION TO THE AMERICAN GEOLOGICAL INSTITUTE

Each calendar year, either the President of the Institute or a Member of its Executive Committee designated by the President shall serve (a three-year term) as the representative of the Institute on the Governing Board of the American Geological Institute. The identity of the representative shall be stated in writing and placed in the records of the Institute.

Section 1 - Organization

The subsidiary organization of the Institute is the Section, (each of) which shall consist of not less than ten (10) Members. Sections shall be organized so as to include Members from one state only, except that where there are fewer than ten (10) Members in one state, those Members may join with Members in a contiguous state or states to form a Section. The Section will be named for the state, states or regions from which its membership comes. Sections shall be chartered only upon application to and approval by the Executive Committee. By majority vote, the Executive Committee may revoke the charter of a Section.

Section 2 - Functions and Limitations

A Section may conduct its own affairs so long as they are not in conflict with the Constitution and Bylaws of the Institute. The Bylaws of the Sections shall not be in conflict with those of the Institute, and any changes therein shall take effect only upon prior approval of the Executive Committee of the Institute. No Section shall have the power to bind the Institute by its action.

Section 3 - Screening Board

Each Section shall select a group of its Members, (to be) known as a "Screening Board", whose duty it shall be to screen (evaluate applicants) applications from its area for membership in the Institute. The size and organization of each (Screening) Board shall depend on local needs, and be determined by the respective Sections, with the approval of the Executive Committee. To provide technical breadth to the screening process, every effort should be made to include appropriate representation on the Screening Board of all specialties. In the interim, before a Section has been established a Screening Board may be appointed by the President of the Institute. All applications that are acted upon by the Screening Board shall be forwarded to the Executive Committee by the Chairman of the Screening Board, with the recommendations of the Board. Applicants for specialty recognition shall be referred to the appropriate organizations named in Article 7 of these Bylaws.

ARTICLE XII. MEETINGS

Section 1 - Annual Meeting

The Annual Meeting of the Institute shall be held at a time and place determined by the Executive Committee and shall be announced to all Members at least one hundred twenty (120) days prior to each Annual Meeting, by notice mailed or announcements published in the official publication of the Institute.

Section 2 - Special Meetings

Special meetings may be called, at any time, by the Executive Committee, provided notice is given in the same manner and time required for the Annual Meeting.

Section 3 - Sectional and Local Meetings

Sectional and local meetings may be organized to suit local needs, provided such meetings do not conflict with meetings of the Institute.

ARTICLE XIII. FINANCES

Section 1 - Fiscal Year

The fiscal year of the Institute shall be the calendar year.

Section 2 - Dues

Annual membership dues are due and payable on the first day of January. The amount of the dues shall be determined by the Executive Committee.

Section 3 - Fees

A non-refundable fee shall accompany each membership application. The Executive Committee shall determine the amount of the fee.

Section 4 - Initial Annual Dues

Initial annual dues shall be submitted by each applicant with his (an) application, but such dues shall be held in a suspense account by the Institute until final action has been taken with respect to that application. Upon denial of an application, dues held in suspense for that applicant shall be refunded in full to the applicant. Upon approval of an application, dues held in suspense for that applicant shall be credited to the respective dues account of the applicant for the year in which notification is given of his election to membership. Dues held in suspense in the case of an applicant elected to membership after June 30, shall be credited to the next annual membership dues.
suscepte-for-that-applicant-shall-be-credited-in-full-as-payment-of
annual-dues-for-the-following-calendar-year.

Section 5 - Section Dues

Annual Section dues shall be due and payable with the annual
dues of the Institute. On or before October 1 of each year, a
Section shall submit written notification of its annual dues to
Institute Headquarters, which shall add the Section dues to the
Annual Dues Statement mailed to each Member of the Institute resident
of the area subject to the jurisdiction of the respective State
Section on the date of billing. Section annual dues collected by the
Institute will be remitted to the respective Sections periodically.
Section annual dues shall be a multiple of $1.00 and are subject to
review by the Executive Committee.

Section 6 - Arrears and Suspension

Any Member whose dues are in arrears for more than ninety (90)
days after the due date shall be suspended from the Institute but may
be automatically reinstated upon payment of dues in arrears and a
penalty of an amount determined by the Executive Committee. For the
purpose of determining any arrearage in dues, Section annual dues
shall be considered as being annual dues of the Institute.

Section 7 - Fidelity Bond

All persons who sign checks, or otherwise handle
Institute funds or assets, shall be bonded at the expense of
the Institute in an amount determined by the Executive
Committee.

Section 8 - Audit

The accounts of the Institute shall be audited annually.

ARTICLE XIV. AMENDMENTS

These Bylaws may be amended or altered by an affirmative
vote of three-fourths (3/4) of the eligible voters at an
Annual Meeting, provided that the proposed amendment has been
approved by the Executive Committee or is contained in a
written petition signed by at least twenty (20) percent of the
Members of the Institute, and is presented for discussion at
an Annual Meeting.

These Bylaws may also be amended or altered by a mail
vote of the Members provided the proposed amendment has been
approved by the Executive Committee or is contained in a
written petition signed by at least twenty (20) percent of the
Members of the Institute. A copy of the proposed amendment
and an appropriate ballot shall be mailed to each Member of
the Institute. An amendment submitted for mail vote will be
adopted if a majority of the ballots received within
forty-five (45) days after the mailing are marked in favor of
the amendment.
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BOOKS FOR PROFESSIONAL GEOLOGISTS...

WORK SHARING CASE STUDIES. Maureen E. McCarthy and Gail S. Rosenberg, with assistance from Gary Lefkowitz. W. E. Upjohn Institute for Employment Research, 1981. 277 pages. $7.95 paperbound. The term "work sharing" embraces any number of work plans and spans every kind of organization, large and small. On the plus side, it keeps employees fresh, prevents burnout, allows for flexibility during downtimes, and hedges against unemployment; on the other hand, it can be unwieldy and expensive to administer. The book is divided into three sections, temporary work-hour reductions, permanent work-hour reductions, and flexible worklife options. Certainly the last alternative, wherein full-time employees relinquish wages or salaries in exchange for additional time off, is the most provocative. Each section begins with an overview of company approaches, then zero in on specific case studies.

WOMEN IN THE WORKPLACE. Edited by Phyllis A. Wallace. Auburn House, 1982. 240 pages. $21.95 hardcover, $12.95 paperbound. Nine authors (all women) contributed to this study, which concludes that, although they have made progress, women have a long road to travel before achieving equality in the workplace. Editor Wallace, of the Sloan School at MIT, reviews sexdiscrimination-related legislation since mid-1960s. Other contributors address salary gaps between men and women with similar jobs, managerial development of women, struggles of white collar and blue collar female workers, and women managers in the corporation. A survey in the chapter on corporations reveals that companies that have consciously tried to improve the lot of women managers do not feel successful in their efforts. Most chapters are supported by some type of study with quantifiable data; many are backed by appendices.

BRIEFLY NOTED...

CREATIVITY IN SMALL GROUPS. A. Paul Hare. Sage, 1982. 198 pages. $22.00 hardcover, $10.95 paperbound. Perspectives on social interaction, group structuring, and problem solving in groups.

GRANT BUDGETING AND FINANCE. Getting the Most Out of Your Grant Dollar. Frea E. Sladek and Eugene L. Stein. Plenum, 1981. 328 pages. $19.50. For grant and contract administrators, project directors, and program managers in grant-seeking organizations: How to apply for a grant, how to speak it, and how to "gameplay" with competitive bids.