

2004 ANNUAL REPORT

— For the Fiscal Year July 1, 2003 to June 30, 2004 —

The American Association of Petroleum Geologists

The American Association of Petroleum Geologists was founded in 1917 during the infancy of the petroleum industry.

Today the Association has approximately 30,000 members worldwide. Through its headquarters staff, AAPG provides many membership services and strives to facilitate advancement of knowledge in petroleum geology through publications and education programs.

The monthly *AAPG Bulletin* is widely considered a leading scientific journal in petroleum geology. The *AAPG Explorer*, a monthly tabloid, is the Association's vehicle for timely information and insights into the industry in general. The AAPG Web site, located at www.aapg.org, provides association and professional information.

The Association also publishes special scientific publications and research data, provides student scholarships, presents highly regarded education programs and schools for professional geologists, and offers a program of distinguished lecturers to organizations and communities.

AAPG was founded, and continues, as a scientific organization dedicated to

- Advancing the science of geology, especially as it relates to petroleum, natural gas, other subsurface fluids, and mineral resources
- Promoting technology for exploring for, finding, and producing these materials in an economically and environmentally sound manner
- Fostering the spirit of scientific research throughout its membership

• Disseminating information relating to the geology and associated technology of petroleum, natural gas, other subsurface fluids, and mineral resources

• Inspiring and maintaining a high standard of professional conduct on the part of its members

• Providing the public with means of recognition of adequately trained and professionally responsible petroleum geologists

• Advancing the professional well-being of its members

AAPG does not "speak" for the oil industry, but for its individual members—explorers who seek and find hydrocarbon resources.

Founders of AAPG

William F. Absher
Walter J. Allen
J.M. Armstrong
F.L. Aurin
R.F. Baker
John G. Bartram
Mowry Bates
C. Max Bauer
Albert L. Beekly
Walter R. Berger
W. Grant Blanchard
Ed Bloesch
James P. Bowen
Robert Wesley Brown
Alan Bruyer
Frank Bryan
H.A. Buehler
George E. Burton
Frank Buttram
W.R. Calvert
Everett Carpenter
Albert S. Clinkscales
R.A. Conkling
Clifton S. Corbett
G.H. Cox
E.J. Cragoe
A.F. Crider
C.L. Cumming
Edward Hardin Davis
L.R. Dawson
Charles E. Decker

E. DeGolyer
Alexander Deussen
W.E. Dodge
L.G. Donnelly
N.F. Drake
H.D. Easton
Charles R. Eckes
A.E. Fath
Otto A. Fischer
F. Julius Fohs
Thomas J. Galbraith
James H. Gardner
D.L. Garrett
Robert E. Garrett
H.B. Goodrich
Charles N. Gould
Frank C. Greene
Dorsey Hager
Chester A. Hammil
Burton Hartley
Huntsman Haworth
R.S. Hazeltine
K.C. Heald
Bryan Hendon
John M. Herald
Earle P. Hines
Charles W. Honess
Joseph S. Hook
J.V. Howell
Richard Hughes
V.H. Hughes

L.L. Hutchison
C.E. Hyde
Harry R. Johnson
William Kennedy
Grady Kirby
Charles T. Kirk
William C. Kite
Marvin Lee
Raymond Leibensperger
J. Whitney Lewis
Harve Loomis
Hugh J. Mackay
Alex W. McCoy
Edgar W. McCrary
A. Stafford McCullough
H. Harper McKee
M.G. Mehl
George H. Meyers
William J. Millard
V.E. Monnett
Raymond C. Moore
Francis P. Mulky
M.J. Munn
Jerry B. Newby
D.W. Ohern
E.C. Parker
Irving Perrine
G.C. Potter
Sidney Powers
Wallace E. Pratt
Sylvan S. Price

Forest R. Rees
Robert J. Riggs
Charles H. Row
Paul Ruedemann
J.M. Sands
E.W. Scudder
C.L. Severy
C.W. Shannon
Walter M. Small
Carl D. Smith
L.B. Snider
L.C. Snider
W.C. Spooner
Dean M. Stacy
Charles H. Taylor
J. Elmer Thomas
L.E. Trout
Johan A. Udden
Herbert N. Uri
M.M. Valerius
W.A.J.M. van Water
schoot van der Gracht
V.V. Waite
Lucian Walker
K.D. White
Earl V. Whitwell
A.J. Williams
E.G. Woodruff
W.E. Wrather
Harry F. Wright

These names are taken from the bronze plaque in the AAPG Headquarters building, Tulsa, Oklahoma, dedicated on March 20, 1953, to the Founders of the Association—Lawrence Tenney Stevens, sculptor.

Reports of the Officers and Foundation

President

The 2003–2004 Executive Committee consisted of Steve Sonnenberg, president; Erik Mason, vice president; Patrick J. F. Gratton, president-elect; Paul Weimer, treasurer; Bob Countryman, secretary; John Lorenz, editor; and George Eynon, chairman of the House of Delegates. The Executive Committee worked on many issues during the year. Meetings were held on a monthly basis along with the Executive Director, Rick Fritz, and the four AAPG departmental directors Brenda Cunningham, David Lange, Larry Nation, and Jack Thomas. The meetings were conducted face-to-face and via teleconference.

The main focus of the committee included the following:

- promoting professionalism in the membership
 - developing student related programs
 - furthering international development
 - promoting and developing AAPG's digital products
 - promoting public outreach and education
 - continuing the development of intersociety programs
 - creating a new long-range plan for the Association
 - emphasizing the finances of AAPG
- In addition, special ad hoc committees were established to look at the future of the *Bulletin* (electronic vs. paper, content, etc.), pension plan, and computer system. All the ad hoc and regular AAPG committees made important progress.

The *Bulletin* ad hoc committee addressed content, publication, and distribution costs. The mailing costs associated with the *Bulletin* are increasing with the increase in international members and constantly increasing postal rates. A plan for future distribution of the digital *Bulletin* at the current dues structure was developed. The print version will be available at an additional cost. The Executive Committee accepted the overall plan. In 2005 more information will be available to explain this new plan, and implementation will begin in 2006.

Recently, AAPG's defined pension plan has fallen into an under-funded status position, primarily due to the poor stock market performance for years 2000–2002, and low interest rates. It is a dilemma faced by a number of companies in the United States. The cost of the pension plan has added

approximately \$700,000–\$800,000 in expense the past two years. Prior to 2001, when the plan was over-funded, the plan provided an additional income to AAPG of \$65,000–\$250,000.

The Pension Plan Ad Hoc Committee, comprised of AAPG members and staff,

investigated ways in which this expense could be reduced. The committee suggested some important modifications to the plan that should reduce the yearly expense significantly over the next several years.

The AAPG Executive Committee approved the \$500,000 acquisition of

Statement of Income and Expenses

	General Fund FY 2002-03	General Fund FY 2003-04	Budget FY 2003-04
Operating Income			
Dues	\$1,785,527.00	\$1,756,573.00	\$1,870,035.00
BULLETIN Subscription	\$325,367.00	\$315,721.00	\$330,000.00
Advertising Income	\$1,304,574.00	\$1,142,062.00	\$1,219,624.00
Sales of Publications	\$815,465.00	\$732,963.00	\$916,400.00
Interest and Dividends	\$453,466.00	\$202,267.00	\$530,000.00
Service Fees	\$1,827,224.00	\$1,928,810.00	\$1,947,000.00
Conferences and Meetings	\$3,211,444.00	\$4,563,463.00	\$4,171,094.00
Page Contributions	\$26,875.00	\$19,100.00	\$17,000.00
Gain (Loss) on Datapages	\$(114,072.00)	\$(116,590.00)	\$53,005.00
Grant Income	\$465,760.00	\$588,288.00	\$477,000.00
Miscellaneous	\$148,218.00	\$191,244.00	\$135,000.00
TOTAL OPERATING INCOME:	\$10,249,848.00	\$11,323,901.00	\$11,666,158.00
Operating Expenses			
Salaries	\$2,736,151.00	\$2,672,028.00	\$2,854,268.00
Employee Benefits	\$1,077,489.00	\$1,298,743.00	\$1,179,522.00
Publishing Cost of BULLETIN	\$328,547.00	\$289,041.00	\$326,000.00
Publishing cost of EXPLORER	\$176,929.00	\$197,074.00	\$246,571.00
Cost of Special Publications Sold	\$369,085.00	\$325,303.00	\$337,000.00
General Office Expense	\$623,689.00	\$634,932.00	\$608,200.00
Postage and Shipping	\$704,200.00	\$624,122.00	\$614,100.00
Building Expense	\$319,410.00	\$302,296.00	\$308,692.00
Professional Fees	\$968,383.00	\$1,316,741.00	\$862,700.00
Management Consultant Fee			
Staff Training & Development			
Staff Travel	\$185,132.00	\$135,025.00	\$113,500.00
Professional Travel	\$471,586.00	\$426,394.00	\$455,500.00
Conferences and Meetings	\$1,864,289.00	\$3,050,265.00	\$2,879,506.00
Depreciation	\$239,423.00	\$208,323.00	\$190,000.00
AGI Dues	\$74,232.00	\$60,627.00	\$74,000.00
Meeting Presence/Display	\$49,682.00	\$49,097.00	\$45,000.00
Miscellaneous Grants and Awards	\$246,458.00	\$284,141.00	\$286,900.00
Student Expo			
Contingency Budget per President			\$55,490.00
Miscellaneous	\$378,091.00	\$349,128.00	\$327,000.00
TOTAL OPERATING EXPENSES	\$10,812,776.00	\$12,223,280.00	\$11,763,949.00
Income (loss) from Operations	\$(562,928.00)	\$(899,379.00)	\$(97,791.00)
BALANCE SHEET SUMMARY			
Assets		\$16,251,577.00	
Liabilities		\$4,116,122.00	
Fund Balance		\$12,135,455.00	
TOTAL LIABILITIES & FUND BALANCE		\$16,251,577.00	

two new software packages: iMIS for association management software and Great Plains for accounting functions. The implementation phase is underway, and the software packages should be fully functional within six months.

The Executive Committee continued to develop intersociety programs. We entered into an agreement with the American Association of Petroleum Landmen to join the North America Prospect Exposition (NAPE) as a 10% working interest partner.

We also entered into an agreement with the Society of Exploration Geophysicists, Society of Petroleum Engineers, and European Association of Geoscientists and Engineers to form a new International Petroleum Technology Conference. The first meeting is scheduled for November 21–23, 2005, in Doha, Qatar. The conference will include exhibits along with 250–300 technical papers. The Executive Committee also entered into a new cost-sharing arrangement with SEPM concerning the annual meeting.

The Executive Committee asked the Advisory Council to work on a new long-range plan for the Association. This is one of the primary functions of the Advisory Council as stated in the AAPG Bylaws. The Council met numerous times and created a new long-range plan. The plan was presented to the Executive Committee at its June 2004 meeting. The implementation part of the plan will begin this year with staff and new Executive Committee involvement. This plan is designed to lead AAPG into the next decades and be flexible enough to meet the changing needs and trends in the industry. The plan will be re-examined on a yearly basis and updated as needed.

This year's Executive Committee spent many long hours working on the Association's behalf. This report covers a very small amount of our activities. We want to thank the AAPG membership for their constant support and encouragement. We want to thank the AAPG staff for their dedication to the Association.

Stephen A. Sonnenberg, President

Treasurer

Copies of the complete financial statement for AAPG and the AAPG Foundation are available to any member upon written request to AAPG Headquarters, P.O. Box 979, Tulsa, Oklahoma 74101-0979.

Paul Weimer, Treasurer

Editor

AAPG Bulletin

The trend of increasing numbers of manuscripts submitted to the *AAPG Bulletin* has continued. After an alarming low of 98 papers submitted in 2001, we received 103 papers in 2002, 125 in 2003, and are presently on trend for approximately 145 (through March of 2004). This reflects author satisfaction with the diminished turn-around times from submission to publication (averaging 18–19 months over the entire year but continuing to drop, and with some papers having been turned around in less than one year), which has resulted from streamlined processing, the online submission and review system, and staff diligence. This means that more authors are striving to publish in the *Bulletin*, that they are submitting more polished products, and, as a result, that the editor can be more selective. Seventy-eight percent of the submitted papers were published in 2003, all with varying amounts of revision.

Eighty-two papers were published in the *Bulletin* in 2003. Authors of papers published in the *Bulletin* are from around the world: 33% are United States authors. Paper topics covered a wide range of hydrocarbon-related geology, including reservoir characterization, basin analysis, petrophysics, sedimentation, diagenesis, stratigraphy, structure, and petroleum systems. The March 2003 issue was a theme issue on fault seals; more of these popular theme issues are planned.

An ad hoc committee on the future of the *AAPG Bulletin* was appointed by AAPG president Steve Sonnenberg in October 2003, and charged with investigating the most desirable format of the *AAPG Bulletin* (in terms of efficiency in publication and mailing as well as member acceptance), and *Bulletin* content. Recommendations of the committee, presented to the Executive Committee in February 2004, were to save member money by going to an online, electronic *Bulletin* (hard copy would still be available at cost), and to expand the topics considered to be acceptable for the *Bulletin* to include economic, seismic, and petrographic subjects.

AAPG Special Publications

A concerted effort has been made to keep the prices of AAPG special publications low by using electronic formats wherever possible. This includes publishing some of our products entirely on CDs and by including CDs in the back of other textbooks, much as folded maps

have been in the past, to include the color figures that would otherwise be prohibitively expensive to print. Low prices benefit the buying members, but also mean that there is little room for profit, and these publications can be viewed as part of member services rather than as a profit center for AAPG. We have put out seven new hardcopy titles for 2003–2004, and in addition have published 24 CD-ROMs.

Gretchen Gillis, chair of the AAPG Publications Committee, has streamlined and shortened the review and approval process for special publication proposals, and we have been able to give prospective authors and editors a decision in weeks instead of months. AAPG special publications have been both volunteered by various authors and solicited from likely authors.

John Lorenz, Editor

Foundation

The major objectives of the AAPG Foundation are to provide funding for programs to encourage better understanding and advancement of the geosciences, and for projects that support the education, training, and career enhancement for earth scientists.

As a result of a favorable stock market, the investment portfolio of the Foundation increased by \$1,810,033 to \$17,581,448 during the past fiscal year. Including fixed assets, primarily the AAPG Headquarters buildings, the total assets of the Foundation were \$22,108,129.

For the fiscal year, the Foundation had total gross revenues of \$1,578,632. Total expenditures of \$1,760,403 resulted in a negative cash flow of (\$181,771.) Considering net realized and unrealized capital gains of a positive \$1,631,514 resulted in a net gain for the year of \$1,449,743.

Total contributions to the Foundation in 2003–2004 were \$861,391. Sixteen percent of the AAPG members contributed to the Foundation through their AAPG dues statements.

Total disbursements for grants and program services were \$802,069 compared to \$827,111 in the prior year.

Major programs during the past year included the following: Distinguished Lecture and Visiting Geologists programs, \$279,094; *AAPG Bulletin*, \$220,000; Grants-in-Aid, \$129,869; and the L. Austin Weeks Undergraduate Grant program, \$18,070.

The Grants-in-Aid program continues to grow with 48 fully funded grants and 5 additional grants established but not yet fully funded. Biographies of those honored or memorialized through the grants are included on the AAPG Web site.

Larry Funkhouser was the sixth recipient of the AAPG Foundation Chairman's

Award for long-time outstanding support of the Foundation and was recognized at the AAPG Annual Meeting in Dallas, Texas.

Foundation Trustee Associate membership totaled 270 at year's end. The Foundation appreciates the very active support of the Trustee Associates.

Their support has been, and continues to be, an important factor in the growth of the Foundation.

Jack C. Threet, Chair

Reports of the Divisions

Division of Environmental Geosciences

General

The Division of Environmental Geosciences (DEG) had a significant year regarding membership, publication, and finances, all presented in this report. What is not presented, but is equally significant, are the countless hours donated by the DEG volunteers to help make this division a thriving source of information and energy in AAPG. The officers serving us this past year are to be lauded for their dedication.

The DEG welcomes the new direction AAPG is taking and fully supports planning efforts for the future of the Association. We welcome the opportunity to be a more visible part of the Association.

We are particularly impressed with and thankful for the support and catalysts within the AAPG staff, without whom we could not maintain our division. We are indebted to them, particularly Norma Newby.

Conventions

The DEG was officially represented at all the section meetings this past year. We sponsored several well-attended sectional technical sessions. We also developed and conducted well-attended sessions at the Dallas 2004 AAPG Annual Meeting. We are planning for expanded technical session and field trip offerings at the Calgary 2005 AAPG Annual Meeting.

At present we are trying to be represented on a regular basis in the international arena but have been less successful this past year than anticipated.

Currently we are developing more international relationships in the hopes of better participation in the future. Cancun 2004 and Paris 2005 are off to a good start; we have active and proposed sessions and session chairs for both. We are hoping for greater participation in Perth 2007 and other AAPG affiliated meetings as well.

Membership

We have a significant decline, a continued trend since 1996, in membership. We are currently changing our membership benefits to counter this trend but have no measurable results yet. There is a perceptible increase in participation among current members in the Association, which we hope will lead to an increase in new membership, particularly among students and younger geologists.

Publication

In 2003, *Environmental Geosciences (EG)* visibly blossomed. Manuscript submission increased greatly in 2003–2004, and the quality of manuscripts remains high. The new *EG* cover is designed to entice readers to look inside. The addition of the President's Column allows each president a forum to discuss issues in a timely fashion.

We currently have 32 associate editors, including 5 associate editors representing the AAPG international regions. South America has not yet been filled.

- Manuscript submission summary:
2003: 27 manuscripts submitted, 21 published or scheduled to be published, 8 general articles, and 13 special edition articles.
2004: As of September 15,

45 manuscripts submitted, 23 general articles, and 22 special issue articles.

- Special issues in preparation: Savannah River Site special issue edited by Doug Wyatt and Mary Harris.
- Production history: In part due to a change in publishers, *EG* 10:1–3 were late. Starting with *EG* 10:4 *EG* is back on a normal production schedule. *EG* 10:1–4 averaged 45.5 manuscript pages per issue. *EG* 11:1–2 will average approximately 63 pages per issue.
- Rapid Review: In July 2002, *EG* moved to an all-electronic manuscript submission and review system called Rapid Review. Associate editors that did not have access to the Internet were replaced. Since inception, there have been no lost manuscripts, we have better control over the review process, we incur no postage fees, and we have no paper trail. The average review time in 2003 was decreased to 37.4 days.
- Copy editing by SPI is very thorough and detailed, including cross-checking references cited with references in the text. The copy editor's author queries are handled electronically as well.
- Secondary income sources and cost reductions: Student members currently access *EG* online, eliminating mailing and printing costs.
- The nonmember subscribers list was finally retrieved from the previous publishing agent in 2003, which carried 65 nonmember subscribers. At present, we have regained 15 institutional print nonmember subscriptions (\$4300) and one institutional online nonmember subscription (\$92). We may regain all 65 and increase this number during fiscal year 2004–2005.

- Larry Nation and Brenda Merideth of the AAPG staff took on the assignment to help *EG* generate advertising revenue. On March 16, AAPG staff sent e-mail to all DEG members soliciting business card advertising. AAPG staff commenced an energetic and aggressive pursuit of corporate advertising from which we hope to gain good support. Advertising materials were available at the Dallas AAPG/DEG booth.
- To get more visibility, the AAPG/DEG Web site has been updated, and *EG* has applied for an International Standard Serial Number (ISSN).

Fiscal Summary

Expected year—end results

Assuming no more nonmember subscriptions, our yearly operating income will be about \$77,330. This assumes just member income, which for the month of June will be \$5667. We are looking at a year-end balance of around (–\$5500). In addition, we continue to carry the (–\$16,214) from last year. Our negative year-end balance is because this year's budget paid for 1.5 years of journals (six journals). Our losses were greatly minimized by regaining the nonmember subscriptions.

Collected dues—operating income

We continue to benefit from the nonmember income dues. This amount, \$8295, allowed us to break even at the end of May.

Operating expenses

The significant new operating costs for May were the professional fee costs for the June *EG*. For June expenses, we should expect to see journal printing and postage costs. Based on past costs, this may be in the range of \$6500.

Rima Petrossian, President

Division of Professional Affairs

One of my goals at the beginning of the year was to raise the prestige of the division. Toward that end, I have promoted the division as the "A Team" of the Association at all of the section meetings as well as the House of Delegates meeting in Dallas. With that promotion, I have challenged all AAPG members to ask, "Why am I not a member of DPA?" as opposed to the more traditional question "Why should I join the DPA?"

The division had a very positive year and enacted a number of key initiatives that will help us continue to raise the

prestige of the division, and to make membership in the division more attractive. The division, under the direction of George Bole's Long-Range Planning Committee set forth the goal of becoming "THE certification body of the world." To achieve that goal, the division will need to establish reciprocity with all states requiring licensure, and with countries around the world. Toward that end, the division has renewed its reciprocity agreement with the Geological Society of London, established an agreement with the Alberta Securities Exchange for DPA members to be eligible to be qualified evaluators, and approved in principle the Board Certified membership level, which will facilitate obtaining reciprocity with those states with licensure. The final proposal for establishing the requirements and bylaws changes will be presented to the Advisory Board this coming November.

This November we will also present a proposal toward developing a certification for reserve evaluators. We are working closely with both the Society of Petroleum Engineers (SPE) and the Society of Petroleum Evaluation Engineers (SPEE) on this certification, and a steering committee consisting of SPE and DPA members is in place, with Pete Rose and Dan Tearpock being the DPA representatives. At this time, SPE seems unwilling to consider establishing certification, which is unfortunate. However, I believe strongly that the DPA should establish a certification for reserve evaluators. Should it some day be required, we will be in the lead. Should it not be required, it would still be valuable certification for geologists, as many in our profession are not calculating reserves correctly. A certification program, coupled with a strong public relations campaign could provide a market niche for those of our members who elect to become certified reserve evaluators.

Another key initiative this year was to change the focus on ethics from a position of ethics enforcement, which was rarely done, to ethics awareness. Several articles regarding ethics were published in the last two issues of *The Correlator*, and we sponsored Halliburton CEO John Gibson's Distinguished Lecture tour. We will continue to work to raise ethics awareness through *The Correlator* and through the development of several short courses.

The Governmental Affairs Committee was reorganized this year to add a permanent subcommittee. This committee's function is to provide scientific-based information on energy and the environment to state legislators.

Under the leadership of James Drahovzal, the committee has attended several meetings of state legislators.

I thank all of the members of the DPA Council and the members of the Executive Committee, past president Tom Mairs, vice president Rick Ericksen, treasurer Dan Tearpock, secretary Casey Clawson, and current president Mike Party for their outstanding commitment to the division. Finally, there would be no division if it were not for the tireless efforts of our division manager, Norma Newby.

Bob Shoup, President

Energy Minerals Division

The highlights of the Energy Minerals Division (EMD) activities for the year are as follows:

- The EMD Web site is now hosted by AAPG and it has been updated and revised. Brian Cardott, our Web site committee chair and president-elect has worked with AAPG staff member Janet Brister to bring you the revised EMD Web site (<http://emd.aapg.org>), which now has both public and members only sections. The Web site is the primary way for members and others to learn about EMD and its progress and activities.
- The EMD technical program for the Dallas 2004 AAPG Annual Meeting consisted of five oral sessions and eight poster sessions and included a cooperative technical session with AAPG, the Division of Professional Affairs (DPA), and the Division of Environmental Geosciences (DEG). The EMD annual luncheon and awards meeting was held on Wednesday, April 21, 2004, and was very well attended. Patrick Leahy, associate director of geology, U.S. Geological Survey, was the luncheon speaker. Sponsors who contributed to this event were Optimistic Oil Company, ChevronTexaco, and the National Mining Association. The pre-convention short course on coalbed methane and the post convention field trip that provided an overview of coal and coalbed methane in the Arkoma basin, eastern Oklahoma, were both successful and well attended. Andrew Scott coordinated the short course, and the field trip leaders were Brian Cardott and Jeffrey Levine.
- Preliminary planning of the EMD program for the 2005 convention in Calgary is underway. Richard Richardson is the EMD vice chair for the Calgary

meeting. Andrea Reynolds is the EMD vice chair for the AAPG 2006 convention in Houston.

- The EMD/AAPG publication titled *Coal-Bearing Strata: Sequence Stratigraphy, Paleoclimate and Tectonics*, edited by Jack Pashin and Robert Gastaldo, is available for sale.
- Planning has begun for a revised second edition of the *EMD Atlas of Coal Geology*, which will be edited by Alexander Papp.
- Work is in progress on a CD-ROM publication titled *Unconventional Energy Resources of North America*. Laura Wray is the editor for this publication.
- Plans are being made with DEG concerning a joint EMD/DEG publication on CO₂ sequestration. A joint EMD/DEG editorial committee has been organized to seek contributions from potential authors and present an outline to the AAPG geoscience director. Jack Pashin from EMD and Robert Menzie from DEG are co-chairs of the committee.
- EMD continues to co-sponsor the scientific quarterly journal *Natural Resources Research* with the International Association of Mathematical Geologists. This represents a great opportunity for EMD members to submit papers in the EMD areas of interest. Daniel F. Merriam is the editor in chief of this publication, and Douglas Peters serves on the editorial board as the EMD representative.
- Work is proceeding on the development of a CD-ROM publication titled *Geospatial Technology Applications for Exploration and Production of Energy Resources*. Rebecca Dodge is the editor. She will also be the EMD representative for the AAPG Distinguished Lecturer Committee.
- To increase EMD publication sales, the EMD publications were advertised in the September and October issues of the *Explorer* and the January issue of *Geotimes*.

- In pursuance of the EMD goal to enroll new members, work with other professional societies, publicize EMD, and have EMD booths at appropriate other professional society meetings, EMD for the first time had an exhibit booth at the joint northeast/southeast section meeting of the Geological Society of America (GSA) at Tysons Corner, Virginia, March 24–27, 2004. More than 200 membership applications were distributed. Lee Avary organized and manned the booth and was assisted by Chacko John and Peter Warwick. The booth was a tremendous success and will most probably result in increasing student members and some active members.
- EMD/AAPG and the National Mining Association (NMA) agreed to a no-cost exhibit booth exchange. AAPG provided an exhibit booth for the NMA at the Dallas convention and NMA will provide AAPG with booth space at the International Mining Expo in Las Vegas, September 27–30. This Expo is held every four years, and the last one in 2000 had an international audience of 32,000 (including about 12% geologists). This will be a brand new association to which both AAPG and EMD will be reaching out. Katherine Lee Avary is the EMD Exhibits and Outreach Committee chair.
- EMD continues to encourage its members to develop new EMD commodity short courses for presentation at regional and annual meetings and will do what is necessary to promote them. These include courses in remote sensing and GIS application for petroleum exploration, gas hydrates, coalbed methane, coal, energy economics, CO₂ sequestration, geothermal, tar sands, oil and gas shales, and uranium. EMD also encourages its membership to present joint courses, technical sessions, and field trips with DEG and DPA for appropriate subjects at different venues.

- EMD actively continues to seek and increase Active memberships in our division. Approaches to achieve this goal include (1) more active involvement in arranging technical sessions and courses on EMD commodities at national and regional section meetings; (2) EMD exhibits booths not only at AAPG meetings but at GSA, NMA, American Institute of Professional Geologists, Society of Petroleum Engineers, Society of Mining Engineers, and other professional associations to tap potential interest in EMD membership from members of these associations; (3) providing discounts for EMD members for its courses, field trips, and publications. The continuing success of EMD is wholly dependent not only on the Executive Committee, but also on the work of all the EMD Councilors, Commodity chairs, and other committees. All these volunteers together perform the operational roles of planning technical meetings, finances, publications, awards, outreach, commodity reports, and member recruitment. My thanks to all the individuals concerned for their respective work in various capacities. My thanks also to Norma Newby, AAPG Divisions Manager, for her assistance and co-operation in various EMD matters and Janet Brister, AAPG Web site editor, who worked with Brian Cardott, Web site chair and president-elect, to greatly revise and update the EMD Web site. The Energy Minerals Division looks forward to continuing to actively promote its interest and those of its members and to increased involvement, support, and volunteer activity from its membership. It has been an honor and privilege for me to serve as the EMD president and to work with you all.

Chacko J. John, President

Reports of the Sections

Gulf Coast Association of Geological Societies

The highlights of GCAGS activities for the year are as follows:

- The new Gulf Coast Association of Geological Societies (GCAGS) headquarters office is located at the Bureau of Economic Geology, University of Texas at Austin, and

Kate Kipper was appointed as the Executive Secretary. The GCAGS continues to have the largest membership among AAPG affiliated sections. It currently comprises

13 affiliated geological societies (Web site: www.gcags.org).

- The GCAGS annual convention is held annually in conjunction with the Gulf Coast Section of SEPM. The 2003 convention was held in Baton Rouge (October 22–24, 2003) and was a resounding success. The event generated approximately \$32,000 profit for the host, Baton Rouge Geological Society, and the sponsor, GCAGS. Convention attendance was over 700. As per the GCAGS Board's decision at the mid-year meeting in San Antonio (April 2, 2004) 35% of the profit will go to the local host society, and GCAGS will retain the remaining 65%. David Pope worked as general chairman. Technical Program co-chairs were Harry Roberts and Arnold Bouma. Along with the other convention committee chairs, they put together an outstanding technical program, which consisted of 92 papers, 38 posters, 2 field trips, and a short course spanning a wide variety of geological subjects. The all-convention luncheon speaker was Charles "Chip" Groat, director, U.S. Geological Survey. The EMD-DEG-DPA luncheon speaker was Chris C. Oynes, regional director, Minerals Management Service, Gulf of Mexico Region. The *GCAGS Transactions*, co-edited by Gregory Stone, John Wrenn, and Samuel Bentley, were produced on CD with hard copies made available for extra cost to those requesting it at registration. The *Transactions* were dedicated to James Coleman, Harry Roberts, and Arnold Bouma, who are internationally known researchers, for their contributions to the understanding of Gulf Coast geology.
- At this annual convention the Don R. Boyd Medal, which is the most prestigious GCAGS honor, was presented to Thomas H. Philpott, one of the founders of GCAGS. (He died shortly after the convention.) GCAGS Honorary Member awards were presented to Ernest Mancini, M. R. Douglass, E. Gerald Rolf, and Richard N. Hargis. Distinguished Service awards were given to William Wilbert, David Rensink, and Charles Sternbach. Outstanding Educator awardees were Walter Coppinger and Shea Penland. Chandra Hamilton from San Antonio was presented with the Outstanding Science Teacher award.
- Awards for best papers and posters at the preceding (2002) GCAGS convention in Austin, Texas, were presented at this year's (2003)

convention in Baton Rouge. The first place Thomas H. Philpott Excellence of Presentation Award went to Geoffrey Saunders, second to Steven T. Knapp, and third place was tied between Carroll Wascom and Gary Snellgrove, and Frank J. Peel. The A. I. Levorsen Memorial Award was presented to Steven T. Knapp. The first place Gordon Atwater Award for posters was given to Harry H. Roberts, James M. Coleman, Jesse L. Hunt, William W. Shedd, Roger Sassen, and Alexei Milkov. The second place poster award went to Ted Playton and the third place to Charles Kerans and Robert G. Loucks. The Grover E. Murray Award for the best published papers in the 2002 GCAGS *Transactions* was presented to Charles Kerans, first place; Alton A. Brown, second place; and James Gibeau, Roberto Gutierrez, and Tiffany L. Hepner, third place.

- The GCS-SEPM named Marc Edwards as an Honorary Member and presented the Distinguished Service Award to Nancy Engelhardt-Moore.
- The GCAGS Student Grant Committee, chaired by Bonnie Weise, received 40 research proposals out of which 29 were funded in varying amounts totaling \$27,500. In addition to this, travel and presentation grants were provided to three student recipients for a total of \$1400.
- Nine committees in addition to the GCAGS Board of Directors presently conduct the activities of the GCAGS. These committees and their respective chairs follow: Convention Committee, Tim Rynott; Awards and Nominations Committee, Jerry Wermund; Finance Committee, Steve Hill; Long Range Planning Committee, Brian Lock; Publications Committee, Doug Ratcliff; Student Grant Committee, Danny Harrelson; Transactions on CD-ROM Committee, Ed Picou; Publicity and Web site Committee, Larry Bartell; and History Committee, David Pope. The GCAGS representatives to the AAPG Advisory Council are Mark Gallagher and Jeffrey Lund. All these individuals and their respective committees do outstanding work for GCAGS and that's what makes GCAGS a vibrant and progressive geological association.
- The GCAGS Executive Committee is pleased to report that the GCAGS continues to be financially very stable. Its current resources will enable it to continue to be economically solvent for the future. Finally, I feel honored and privileged to serve as the president of GCAGS for this

year. It has been a pleasure to work with the GCAGS officers and committee chairs and the presidents of the 13 member societies of GCAGS. It is the voluntary hard work, enthusiasm, advice, recommendations, the cooperative spirit and dedication of all these individuals that makes GCAGS one of the finest geological societies. I wish the incoming president Stewart Chuber the best of luck and feel sure that he will find this another enriching and rewarding experience in his professional career.

Chacko J. John, President

October 2002–October 2003

Southwest Section

The Southwest Section (SWS) AAPG 2004 Annual Meeting was held in El Paso, Texas, March 7–9. Meeting hosts were the El Paso Geological Society and the Permian Basin Section-SEPM with James Lyons (EPGS) as general chair and David Sivils and Emily Stoudt (PBS-SEPM) as co-chairs of the Technical Program Committee. There were 150 total registrants, including 107 professionals, 23 spouses, and 20 students. In addition, 13 exhibitors were on site.

Events were well attended and included two pre-meeting and two post-meeting field trips, "More! Rocks in Your Head," a SWS sponsored short course, and all-convention and DPA luncheons. Technical and poster sessions were lively and informative, presented with skill and enthusiasm. Sixty-five public school teachers attended the daylong "More! Rocks in Your Head" program on March 6. The meeting was fiscally successful, thanks to support from industry, contributors, and exhibitors.

During the opening ceremony of the annual meeting, awards were presented for lifetime and professional achievement. Two A. I. Levorsen Awards for best oral presentations at the 2003 meeting were made to Russell K. Davies and Jimmy D. Thomas. The A. I. "Al" Cox Award for best poster presentation at the 2003 meeting was presented to Jim Puckette and Zuhair Al Shaieb. The SWS Monroe G. Cheney Award for significant contributions to petroleum geology in the region was presented to Robert "Bob" Ward. The section's Distinguished Educator Award was presented to James L. Carter. Brenda Cunningham received the John Emery Adams Distinguished Service Award. A SWS Special Commendation Award was presented posthumously to Charles F. Passel for his scientific work as a member of the Byrd Antarctic Expedition.

In support of its mission to advance the science and profession of geology, the SWS has made annual scholarship awards to students to support their research. For the 2004–2005 academic year, the section has awarded scholarships to five outstanding graduate students. The section contributed more than \$3500 to support the “More! Rocks in Your Head” program.

The section also supported two short courses, free to section members. In November, Charles Kerns (TBEG) presented “Carbonate Sequence Stratigraphy and Reservoir Characterization” in Abilene to 88 attendees. During the annual meeting, Gene Rankey (Miami University) presented “Seismic Characterization of Carbonate Reservoirs” to 18 attendees. Net cost to the

section for these short courses was approximately \$5000.

The section is in sound financial order with net assets of \$99,335.53, a decrease of \$4737.61 since the beginning of the fiscal year. Most of that decrease will be offset by expected revenue from the El Paso annual meeting.

William C. Cornell, President

Reports of the Committees

Astrogeology

The function of the Committee on Astrogeology is to provide a forum for ideas on astrogeology. Efforts include a speakers' bureau, symposia at various meetings, encouragement of poster sessions on astrogeology, and a liaison with groups of similar interest, such as the National Aeronautics and Space Administration. Provision is made for subcommittees to study comparative planetology; impact-cratering geology, particularly as related to hydrocarbon and mineral occurrences; planetary geology; remote sensing; and exploration on Earth's natural resources from space, Earth applications of developments from the space program, and exploration and development of natural resources in and beyond the solar system.

The committee has had no activity during the period other than informal discussions at the 2004 annual meeting. The committee is moving forward with plans for a major session at Calgary in 2005 that will include papers on materials deposition on Mars and lunar resource acquisition. The Mars part of the session will focus on information derived from the recent robotic rovers. The Lunar Resource Acquisition part will include discussions on resource types and grades, their mining and processing, and their potential markets. The committee plans to contact the American Institute of Mining, Metallurgical and Petroleum Engineers to see if they wish to cosponsor this session.

The committee wishes to identify AAPG members who may have an interest to become both members and contributors to the committee's Calgary session and to other future activities. Please contact the chairman at

schmitt@engr.wisc.edu if you wish to become a member.

Harrison H. Schmitt, Chair

Committee members: Philip Jan Cannon, George Eynon, Debra D. FitzGerald, and Harrison H. Schmitt (chair).

Committees

The mission of the Committee on Committees is to recommend to the president-elect a slate of candidates for standing, special, and ad hoc committees; Association representatives to other permanent groups; and all other appointments on which the Executive Committee, the president, or the president-elect request advice.

The Committee on Committees (COC) was formed in 1990. The Committee provides advice, recommendations, and suggestions; it does not appoint. Only the AAPG president is empowered to appoint members to the various committees. The AAPG Executive Committee has the authority to dissolve any standing committee.

At the beginning of the year, an initial contact letter was sent by the COC to all other committee chairs. Also included was a copy of the Committee Membership Guidelines. The contact letter requested certain committee information so that the headquarters staff liaison could update all committee records. In addition, the letter recommended the following suggestions for each committee:

- Review for geographic representation and, if appropriate, for scientific discipline diversity.
- Consider changing vice chair(s) annually to give several committee members an opportunity to show leadership.

- Rotate members off after they have completed a three-year term unless their duties and contributions indicate that you should contact president Steve Sonnenberg to appoint them for another three-year term.
- Keep your committee Web site updated. It should include such basic information as a mission statement, a list of committee members, pertinent meeting minutes, and a list of committee goals.

This year the Committee on Committees accomplished the following:

- Due to term limits, several members left the COC; however, the committee added two new members to maintain at least one or more members from each Section as well as from the Canada and Europe regions. The committee membership now stands at 18.
- Over the last four months of the year, all standing committee chairs and representatives were contacted regarding their reappointments or replacements, and their selections of vice chair(s). This information was shared with incoming president Patrick J. F. Gratton. The COC chair had several meetings with Gratton on the various committees. Every standing committee chair and representative, as well as most vice chairs, should be in place by June 30, 2004.
- All COC members have been in contact with their liaison committees and have been of assistance when requested.

The COC met during the AAPG Annual Meeting in Dallas and covered the following important items:

1. The January 2004 Leadership Conference in Tulsa, which was attended by 10 COC members, was briefly discussed. This year's conference focused on a new strategic

plan for AAPG. Once approved by the Executive Committee, the plan will be circulated to committee chairs and also put on the Web site for all members.

2. Committee chair replacements for the upcoming 2004–2005 year were announced based on information available at the annual meeting. All standing committee chairs plus representatives were in the process of being contacted for review by incoming president Gratton.
3. Various other items about committees were discussed including the following:
 - “Summit on Committees” meeting at the Leadership Conference (would be all of the standing committee chairs and vice-chairs, as well as COC liaison members, who are attending the Conference; the intent of the meeting would be to cover the committee guidelines, etc., so that all chairs, et al. can be better informed of their duties);
 - Rotation of members after three year terms;
 - A request for a mid-year report;
 - Replacement of any chair who does not submit an annual report by July 1;
 - Guidelines updated and sent to all chairs and vice chairs;
 - Recommendation of new members to all committees as required;
 - Liaisons to check that each committee updates its Web page and submits its annual report by July 1.
4. The remainder of the meeting was spent on items concerning the mission of the COC and the duties of its members.

Peter G. Gray, Chair

Committee members: Lee Avary, George Bole, Dave Campbell, Brian Cardott, Edward Dolly, Pete Gray (chair), Robbie Gries, Walter Grun, Ed Heath, John Hogg, Terry Hollrah, Don Lewis, Bob Lindblom (vice chair), Bill Morgan, Michael Party, Deborah Sacrey, Valary Schulz, and Mark Wilson. Liaison to the COC includes Patrick J. F. Gratton, president-elect, and Linda Burris, AAPG headquarters staff.

Corporate Advisory

The purpose of the Corporate Advisory Committee is to provide a channel between the Association and corporations that employ members of the Association.

The Corporate Advisory Committee conducts most of its business digitally. The current mission and plan as well as minutes of meetings can be found through AAPG’s committee Web page.

During 2003–2004, the Committee as a whole or through its individual members gave advice on and/or mobilized significant support for the following:

- AAPG’s new Strategic Plan and Financial Plan
- AAPG membership (Halliburton’s underwriting of student memberships now covers 5112 students, and another 1000 are under review.)
- Annual conventions, international and regional meetings (e.g., Barcelona 2003, Prague and Cancun 2004, APPEX in Houston and London)
- *AAPG Bulletin* (The committee supports the inclusion of more E&P Notes and the issue of more thematic volumes.)
- AAPG Training Partners (The committee strongly supports the development of a first-class on-line training program, even if initial uptake is slow.)
- AAPG Geotechnical Training Centers in the United States, Canada, United Kingdom, and Austria
- AAPG Data Pages/GIS-UDRIL (Thanks in part to committee members, there are now five contracted companies for GIS-UDRIL, five applications pending, and five more companies indicating strong interest.)
- Geoscience World (The committee is very enthusiastic about the seamless interconnection of the libraries of the AAPG, American Geological Institute [AGI], Geological Society of America, Geological Society [London], Mineralogical Society of America, Society of Exploration Geophysicists, and SEPM. This unique service will go live online in January 2005. It will start with 30 publications plus all publications in AGI’s Georef.)

The Corporate Advisory Committee at all times cooperates with appropriate AAPG committees and keeps the Committee on Committees informed through its Web page, agendas, and minutes.

Wolfgang Schollnberger, Chair

Committee members: Mahmoud M. Abdul-Baqi, Peter Aronstam, Annell Bay, Mikhail Belonin, Clarence Cazalot, Jim Emme, John Gibson Jr., William H. Hunt, Jean J. Jarrige, Loren Leiker, Ray Leonard, David Loughman, Wolfgang Nachtmann, Rod Nelson, Robert Ryan, Wolfgang Schollnberger, Peter Schwans, Bill Wescott, and Edith Wilson.

Distinguished Lecture

The function of the Committee on Distinguished Lecture is to arrange

lecture tours among affiliated societies and academia by offering outstanding speakers on timely subjects.

The objective of the Distinguished Lecture Committee is to nominate and select distinguished speakers for fall and spring lecture tours. These tours are designed to provide academic and affiliated societies access to outstanding geoscientists showcasing their recent work. The committee currently consists of 20 dedicated professionals, representing 7 oil and gas companies, 2 consultants, 8 academic institutions, and 3 state and governmental offices. Based on the success of the 2003–2004 season (Table 1) and the breadth of speakers for 2004–2005 (Table 2), the committee continues to maintain a high-caliber and balanced roster of lectures that bring a diverse sampling of our science to wide audiences.

The estimated cost for the 2003–2004 domestic and international tours is \$207,632 (approximately \$15,000 less than the previous year). This included \$73,290 for direct travel and \$174,395 (a decrease of approximately \$17,500) in operations expenses. Income from host societies, approximately \$40,053, will partially defray these expenses, with the AAPG Foundation using its Distinguished Lecture Fund to subsidize the remainder of the expenses incurred for this educational program.

The eight 2003–2004 domestic Distinguished Lecturers provided a total of 115 visits, 49 in the eastern section and 66 in the western part of North America, reaching an audience of 6458 (46 geological societies and 69 universities). As was previously explained in the annual report, AAPG and the Society of Exploration Geophysicists (SEG) rotate responsibility for the AAPG-SEG Intersociety Distinguished Lecturer. In 2003–2004, AAPG coordinated the tour with Steve May as the selected speaker visiting 16 groups. Heloise Lynn was selected to be the 2004–2005 AAPG-SEG Intersociety Distinguished Lecturer, which SEG will administer. The title of her talk is “The Winds of Change: Anisotropic Rocks—Their Preferred Direction of Fluid Flow and Their Associated Seismic Signatures.”

Similar to last year, the International Distinguished Lecture program was reduced because of continuing safety and security concerns associated with the Iraq War. Five international speakers were able to visit parts of regions. Charles F. Kluth completed the southern part of his Latin America tour;

Table 1. 2003–2004 AAPG Distinguished Lectures

North America Distinguished Lectures

Richard J. Behl

California State University, Long Beach, California

- (1) "Methane Hydrates and Climate Change: The Clathrate Gun Hypothesis"
- (2) "Miocene Monterey Formation of California: Plankton to Petroleum, Source to Reservoir"

Linda M. Bonnell

Geocosm, LLC, Austin, Texas

- (1) "Sealed, Bridged, or Open—A New Theory of Quartz Cementation in Fractures"
- (2) "Reservoir Quality Prediction in Deep Water to Tight Gas Sandstones Using a Process/Stochastic Modeling Approach"

David W. Bowen

Consultant, Bozeman, Montana

Haas-Pratt Funded Distinguished Lecturer

- "Understanding the Impact of Variations in Incised Valley-Fill Systems on Reservoir Development: Examples from the Pennsylvanian and Cretaceous Strata of the Rocky Mountain Region"

Steven R. May

ExxonMobil, Houston, Texas

AAPG-SEG Intersociety Distinguished Lecturer

- "Visualization and Volume Interpretation in Geoscience: 3-D Seismic and Beyond"

Luis Pomar

Universitat de les Illes Balears, Palma de Mallorca, Spain

Allan P. Bennison Funded Distinguished Lecturer

- (1) "Types of Carbonate Platforms, A Genetic Approach"
- (2) "Reservoir Scale Heterogeneity of Carbonate Platforms—Some Constraints from the Miocene of the Western Mediterranean"

Wolfgang E. Schollnberger

BP plc, Middlesex, England

AAPG/SPE Intersociety Distinguished Lecturer

- "E-Field: Combining in Real-Time a Deep Look into Reservoirs with a Deep Look into Markets"

Anthony Sprague

ExxonMobil, Houston, Texas

J. Ben Carsey Funded Distinguished Lecturer

- "Physical Stratigraphy of Clastic Strata: A Hierarchical Approach to the Analysis of Genetically Related Stratigraphic Elements for Improved Reservoir Prediction"

Bruce D. Trudgill

Colorado School of Mines, Golden, Colorado

- (1) "Unraveling the Complexities of Salt Basins through the Integration of 3-D Seismic Analysis, Field Studies, and Structural Restoration"
- (2) "Canyonlands Grabens of Southeast Utah: A Natural Laboratory for Understanding Fault Growth"

International Distinguished Lectures

Abdulkader Afifi

Saudi Aramco

Middle East

- (1) "Paleozoic Hydrocarbon Habitat in the Arabian Plate"
- (2) "Ghawar: Anatomy of the World's Largest Oil Field"

Charles F. Kluth

Kluth & Associates, Littleton, Colorado (formerly with ChevronTexaco, San Ramon, California)

Southern Region of Latin America

Roy M. Huffington Funded Distinguished Lecturer

- "Fun With Dip! The Predictive Use of Dip Data to Improve the Interpretation of Fold Traps"

A. M. Celal Sengor

Technical University of Istanbul, Turkey

Central Asia, Europe

- (1) "Tectonic Evolution of the Altai and Continental Evolution in Asia in the Paleozoic and Mesozoic"
- (2) "Tectonic Evolution of the Tethysides"

Wolfgang Schlager

Free University, Amsterdam, Netherlands

Western Europe

- "Basic Patterns and Controls on Carbonate Depositional Systems"

Gordon Knox toured throughout south-east Asia and Indonesia; Wolfgang Schlager visited groups in western Europe; and Abdulkader M. Afifi visited a few groups in the Middle East in lieu of a lecturer who was unable to fulfill his commitment. Note: Since the 2002–2003 annual report was published, a couple of changes were made within the list of International Distinguished Lecturers during 2003–2004: Due to personal conflicts, neither Timothy R. Garfield

(scheduled to tour western Europe), nor J. F. "Rick" Sarg (Middle East) were able to fulfill their commitments.

These speakers delivered 38 visits to an audience of 2523. The total attendance for the domestic and international program was 8992, about the same as for 2002–2003.

Depending on available funding, the previously postponed International Distinguished Lecturers will tour during 2004–2005 (see Table 2).

The 2004–2005 domestic tours promise to be equally successful (also Table 2). To date, we have received 224 requests for the slate of eight speakers to tour throughout North America. As usual, this number suggests that each speaker will contend with very hectic schedules as he/she endeavors to broaden AAPG's impact on our discipline.

Continuing the cooperative effort with the Society of Petroleum Engineers (SPE),

Table 2. 2004–2005 AAPG Distinguished Lectures

North America Distinguished Lectures*

Philip Currie

Royal Tyrrell Museum of Palaeontology, Drumheller, Alberta, Canada

- (1) "Feathered Dinosaurs and the Origin of Birds"
- (2) "Late Cretaceous Dinosaurs from Mongolia"
- (3) "A Pack of Giant Carnivorous Argentinean Dinosaurs"

Robert L. Gawthorpe

University of Manchester, Manchester, England

Allan P. Bennison Funded Distinguished Lecturer

- (1) "Sedimentary Response to Fault Evolution in Rift Basins: Insights from the Gulf of Suez and North Sea"
- (2) "Seismic Geomorphology and Modeling of Deepwater Slope Systems"

Arthur R. Green

Retired geoscientist (formerly with ExxonMobil Exploration Company, Houston, Texas)

J. Ben Carsey Funded Distinguished Lecturer

- (1) "Global Energy – The Next Decade & Beyond"
- (2) "Dynamics of the Sun/Earth Climate System"

David C. Jennette

Bureau of Economic Geology, Austin, Texas

- (1) "Making Sense of Turbidite Reservoirs: A Multi-basin Perspective on What Drives Architecture and Rock Properties"
- (2) "Merging Rocks and Lasers: Bringing 3-D Outcrop Geology to the Workstation"

Jack C. Pashin

Geological Survey of Alabama, Tuscaloosa, Alabama

Haas-Pratt Funded Distinguished Lecturer

- (1) "Geologic Heterogeneity in Coalbed Methane Reservoirs of the Black Warrior Basin: Implications for Gas Production and CO₂ Sequestration"
- (2) "Compartmentalization Analysis of Coalbed Methane Reservoirs in the Black Warrior Basin: Using 3-D Computer Models to Balance Industrial and Environmental Concerns"

Tony Reynolds

BP, Middlesex, England

- (1) "Paralic Oil and Gas Fields—What Makes Them Distinctive: From the Pore Scale to the Reservoir Scale"
- (2) "Pressure Data in the Development of a Giant Oilfield: ACG Azerbaijan"

Ronald J. Steel

University of Texas, Austin, Texas

- (1) "Shelf-Transiting Shoreline Systems and Generation of Stratigraphic Sequences in Shelf-Break vs. Ramp Basins"
- (2) "Improving the Lowstand Component of the Sequence Stratigraphic Model"

Lori L. Summa

ExxonMobil Upstream Research Company, Houston, Texas

"Tertiary Deltas – What We Have Learned: Examples from Deepwater Nigeria"

International Distinguished Lectures

John Castagna

School of Geology and Geophysics, University of Oklahoma, Norman Latin America

"Using Spectral Decomposition to Increase Confidence in Direct Hydrocarbon Indicators"

Carlo Doglioni

University La Sapienza di Roma, Italy

Central Europe

"Global Tectonic Asymmetries and Applications to Europe"

Robert S. Tye

PetroTel, Plano, Texas

China, SE Asia, Indonesia, Australia

- (1) "Alluvial Basin Filling Processes and Quantitative Determination of Channel and Channel-Belt Dimensions Using Cores and Logs"
- (2) "Reservoir Description and Unique Horizontal-Well Designs Boost Primary and EOR Production from the Fluvio-Deltaic Prudhoe Bay Field, Alaska"

Richard Swarbrick

University of Durham

United Kingdom, Western Europe

"Overpressure as a Primary Control on Fluid Flow in Sedimentary Basins"

*Additionally to the above listed domestic Distinguished Lecturers, AAPG was privileged to offer Abdulkader M. Afifi, Saudi Aramco, Saudi Arabia, to a minimal number of geological societies during the early fall 2004. Saudi Aramco has agreed to subsidize the travel expenses to North America and throughout the tour, which will include 5–6 groups; Saudi Aramco will also be responsible for the local expenses during the special Distinguished Lecture tour. ExxonMobil Exploration Co. will subsidize the AAPG fees that are normally paid by the host group. Afifi's lecture titles are (1) "Paleozoic Hydrocarbon Habitat in the Arabian Plate" and (2) "Ghawar: Anatomy of the World's Largest Oil Field"

AAPG proposed Neil Hurley as the Intersociety Distinguished Lecturer for 2003–2004, and he made six visits; Wolfgang Schollnberger was proposed by SPE for AAPG.

AAPG appreciates the efforts shown by the Distinguished Lecturers' companies

and universities in providing the resources required to develop superior slides and/or graphics for presentations required for their talks and for the extended periods of time away from the office for the tours, occasionally as much as six weeks.

Where available, the Distinguished Lecture Committee continues to offer the graphics on the Web site as pdf files, which can be downloaded for review and to benefit those who did not have the opportunity to attend the lectures. The slides are offered following the

Distinguished Lecture tours, depending on the willingness of the Distinguished Lecturers.

We are pleased the significant support from the AAPG Foundation has continued as a result of major contributions to the Distinguished Lecture Fund establishing Named Lectures, such as the Allan P. Bennison International Distinguished Lecturer; the Haas-Pratt Distinguished Lecturer, funded by Merrill W. Haas; the Roy M. Huffington Distinguished Lecturer, funded by Terry Huffington in honor of her father; the Dean A. McGee International Distinguished Lecturer, funded by the Kerr-McGee Corporation; and J. Ben Carsey (a bequest from J. Ben Carsey Jr., in memory of his father, a former AAPG president).

The committee gratefully acknowledges the AAPG Foundation's generous support, and encourages AAPG members to support the Foundation's Distinguished Lecture Fund, which will ensure the continued success of this program for future generations of geologists.

Marianne Weaver, Chair
Stanley Paxton, Vice Chair

Executive Committee Liaison: Paul Weimer
Committee members: John B. Anderson, David Bowen, Mark Cooper, Gregor Eberli, Katherine Giles, Richard H. Groshong, Jr., *Alfredo Guzman, Peter H. Hennings, Chacko J. John (EMD representative), Charles Kerans, Alan S. Kornacki, Lee F. Krystinik, David K. Larue, Stephen E. Laubach, Michael D. Lewan, Steve May, Matthew J. Pranter, Barbara J. Radovich, and Carl Steffensen.

International subcommittee:
John Armentrout, Felipe Audemard, Calvin Cooper, Paul Crevello, Barry A. Goldstein, *Alfredo Guzman, Ahmed Hamedia, Peter Lloyd, Nosa Omorodion, Henry S. Pettingill, Frank J. Picha, William Sassi, Gabor Tari, and Stanley Wharton.

Western European subcommittee:
Thomas Aigner, Germany; Philip A. Allen, Ireland; Mateo Esteban, Spain; Jaap W. Focke, Netherlands; Walter P. Grun, Austria; Hemin Koyi, Sweden; Jean Letouzey, France; Emiliano Mutti, Italy; David G. Roberts, United Kingdom; Hans Ronnevik, Norway; Finn Surlyk, Denmark; and Rudolph Swennen, Belgium.

Eastern Europe subcommittee:
Frank J. Picha, chair; Abraham Murtuzayev, Azerbaijan; George Krastev Ajdanlijsky, Bulgaria; Tihomir Marjanac, Croatia; David Ulicny, Czech Republic; Juraj Francu, Czech Republic; Alexander Chabukiani, Georgia; Andras Galacz, Hungary;

Mikhail K. Apollonov, Kazakhstan; Shlygin Dmitry A., Kazakhstan; Tadeusz M. Peryt, Poland; Olteanu Ionel, Romania; Konstantin O. Sobornov, Russia; Jan Milicka, Slovakia; Alexander A. Kitchka, Ukraine.

*On both the domestic and international committees

Domestic Sections (ad hoc)

The committee conducted its business via e-mail and a brief meeting at the AAPG Annual Meeting in Dallas. A number of issues and concerns of domestic sections were identified as well as suggested solutions. Below is the list of issues and solutions:

Issue: To increase membership in both local societies and AAPG.

Solution: Work with the Membership Committee to recruit new members. Work with local societies to identify potential AAPG members and work on encouraging AAPG members to be active in local societies.

Issue: To pursue the ability of small societies to host section meetings.

Solutions:

- Investigate joint meetings with other organizations. The possibilities include the Society of Petroleum Engineers regions (both Pacific and Eastern Sections have done this successfully); other oil and gas trade organizations; and the Geological Society of America and SEPM regional meetings. These other organizations can provide additional people for meeting organization as well as contributions to the technical program and attendance.
- Investigate involving regional universities in meeting hosting. This also should have the added benefit of increasing university awareness of AAPG.
- Investigate joint meetings between sections.

Issue: To insure a high-quality technical program at section meetings.

Solution: Joint meetings can provide additional breadth to a technical program. Also, working with the AAPG divisions can provide additional sessions for the program.

Issue: To achieve uniform participation by all sections in the Teacher of the Year (TOTY) program (has not been the case in the past).

Solution: Provide more direction and guidelines on successful TOTY programs (i.e., the Pacific Section's approach) so that other sections may use what seems to work.

Issue: To prevent overlapping dates between section meetings and other AAPG-sponsored meetings and between section meetings and local society events.
Solution: Choose section meeting dates as far in advance as possible and publicize them widely. Check with the Section liaison and the webmaster at AAPG headquarters to ensure that the dates are posted. Also, use the *Geotimes* calendar as a means of publicity. Work closely with local societies and learn their traditional dates for certain events.

Issue: To ensure that AAPG officers and officer candidates have some time on the program.

Solution: Work with the current AAPG president to schedule some time during the section meeting for the officers and candidates to be introduced, whether it is at the opening session or all-convention luncheon. This allows members who may not attend the annual meeting the opportunity to see the officers and candidates and put a face with the name and photographs that are published in the *Explorer* and *Bulletin*.

Katharine Lee Avary, Chair

Committee members: Steve Sanford, Pacific Section; Stewart Chuber, GCAGS; David Hawk, Rocky Mountain Section; Bill Cornell, Southwest Section; Tony Kolodziej, Mid-Continent Section, and Katharine Lee Avary, Eastern Section and committee chair.

History of Petroleum Geology

The function of the Standing Committee on the History of Geology is to encourage research of the roots and evolution of this applied science. The Committee's purpose would be served by the documentation of the geological breakthroughs in the search for oil and of the geologists who realized and conducted them. The scope of this intention is worldwide.

The committee's major activity during the year was the development of the pre-convention Sunday afternoon open forum. The focus of this year's forum was "Lessons Learned from Failures." Two speakers presented contrasting illustrations of this theme to an audience of nearly 150 listeners, Sunday afternoon, April 18, in Dallas.

In his talk on "Bypassed Pays: Opportunities for Large Reserve Additions," Robert Sneider presented an arresting example of the application of the integration of geological, geophysical,

and reservoir engineering studies that transformed an exploration failure into a major discovery of tens of trillion cubic feet of gas in western Canada.

James Chiles described "Human Factors and System Fractures: Lessons from Oil and Gas Industrial Disasters." Using examples such as the collapse of the Ocean Ranger platform in a North Sea storm, Chiles explained how combinations of human error and mistakes of technology were responsible for them. Moreover, he indicated how the culture of an organization shaped its decisions and reactions to unexpected developments.

At its annual meeting the committee developed plans for activities at the 2005 meeting in Calgary, Alberta. The theme selected for the 2005 Sunday afternoon open forum is "Exploration and Development in Iraq and Iran." Our committee and the Petroleum History Society of Calgary will jointly sponsor this forum. Two presentations were approved ("The Story of Iraq's Oil: Exploration and Production in the 20th Century and a Glimpse of What the 21st May Offer" by John Scott, Augustus Wilson, and Grenville Lunn, all of PGA Consultants, and "History of Exploration and Development in Iran" by Marlan Downey) and a third is being considered.

A joint meeting and field trip with fellow historians of the Petroleum History Society and the History and Archives Committee of the Canadian Society of Petroleum Geologists is planned. The Petroleum History Society has agreed to develop plans for a joint field trip Sunday morning before the convention to Turner Valley near Calgary where oil exploration began in western Canada. A joint meeting of the AAPG committee and the society is also planned.

Charles Sternbach, chair of the AAPG Annual Meeting in Houston (2006), brought news of the theme of the meeting, "Perfecting the Search," and suggested that our committee begin thinking about topics for a forum or possibly for a technical session. It was suggested that our committee might organize either a forum or technical session on "Turning Points in the History of Petroleum Geology."

Co-chair Robert Hatcher Jr. outlined the special opportunity to establish a History of Petroleum Geology Committee (HOPG) section on the AAPG Web site to offer information and inspiration about the history of petroleum geology. Specifically, he suggested that such a Web site would be an appropriate location for the Classic Paper Project that the committee discussed last year. Hatcher

proposed that our committee revive the concept and have both commentaries and the original paper posted together on the Web.

Robert N. Ginsburg, Co-Chair
Robert D. Hatcher Jr., Co-Chair

Committee members: Edward D. Dolly, John G. C. M. Fuller, Donald L. Gautier, Robert N. Ginsburg (chair), John C. Lorenz, John A. Masters, Peter L. Nester, James M. Party, Morton M. Pepper, Paul E. Potter, Wolfgang E. Schollnberger, Matthew R. Silverman, Raymond P. Sorenson, Charles A. Sternbach, James W. Tucker, Arthur M. Van Tyne, and Donna C. Willette.

International Regions

The mission of the International Regions Committee is to promote international participation in the AAPG by providing a forum for international members, affiliated societies and regions to communicate with the Executive Committee and AAPG headquarters; to provide support and counsel to AAPG committees and international regions and their associated service teams in aspects of international education, conferences, research and membership; and to help identify candidates for AAPG awards and honors.

The International Regions Committee was renamed in 2002 (previously named International Liaison Committee). This report illustrates international membership growth and membership services, and highlights important milestones reached last year.

International Membership Growth

During the last year, the success trend in international membership growth continued. Both student membership and overall membership grew at excellent rates. International membership at year-end 2003 stands at 10,435 as compared to 9172 for year-end 2002, resulting in a growth rate of 14% as compared to last year's growth of almost 7%. Student membership growth was the major contributing factor as our international student membership now

accounts for 34% of the membership.

Another success contributing factor was the AAPG International Conference in Cairo in 2002 that caused the AAPG member count for the Africa region to increase from 762 by year-end 2001 to 1079 by year-end 2002 and to 2021 by year-end 2003.

The Middle East Region grew by 19% to 516 members. The Asia Pacific Region grew by 12% and reached 2196. The Canada Region grew by 6% to 1569. The Europe Region remained almost the same, and the Latin America Region understandably decreased by 45 to reach 962 members. Challenges in membership growth are to sustain and improve Africa, Asia Pacific, and Middle East region growth and simultaneously improve Europe and Latin America membership numbers through better services and more conferences (such as the three international conferences spanning four continents: Abuja, Calgary, Cancun, and Prague this year). The chart shows both total increase and percentage increase in membership from year-end 2002 to year-end 2003.

International Membership Services

Participation in regional conferences was a key success factor in increasing the awareness of potential members to what AAPG offers.

International membership services are critical to member benefits and hence increase membership. Internet based services such as balloting and questionnaires helped keep international members in touch with the AAPG headquarters and AAPG services. Other normal online services (mentioned in headquarters and other committee services) contributed to the success of the International Regions Committee. The Barcelona International Conference and regional conferences such as GEO-2004 helped deliver more services (with the direct touch) to our members in two continents last year.

Finally, student sponsorship also played an important role in membership increase and awareness throughout AAPG international membership. It

International Membership Growth by Region

Region/Year	Year-end 2002 (%)	Year-end 2003 (%)
Africa	42	87
Asia/Pacific	10	12
Canada	-1	6
Europe	3	0
Latin America	1	-4
Middle East	0	19

allowed for the creation of several student chapters.

Milestones

Major achievements in 2003–2004 include the following:

- Membership increased by 14%.
- The Barcelona meeting in September 2003 was the site for the first-ever meeting for region presidents. This allowed the International Regions Committee, the Executive Committee, and the region presidents to be in close communication.
- The AAPG international conferences had better participation.

Ibrahim A. Al-Ghamdi, Chair

Committee members: Samir Abdelmoaty, Dirceu Abrahao, Deborah E. Ajakaiye, Adebayo O. Akinpelu, Alastair Robertson, Ibrahim A. Al-Ghamdi (chair), Salem R. Almatroushi, Hisham A. Alsiyabi, Marco Antonellini, Felipe Audemard, Nilo C. A. Filho, Carlos A. Dengo, Stephen K. Donyinah, George Eynon, Raymond Franssen, Walter P. Grun, Alfredo E. Guzman, Christian J. Heine, Andrew Hurst, John Kaldi, Henry M. Lieberman, Maria A. Lorente, Jean R. Masclé, Webster U. Mohriak, Adel R. Moustafa, Kazuo Nakayama, Debra K. Nishida, Dag Nummedal, Francisco Porturas, David G. Roberts, Leta K. Smith, Gabor Tari, William A. Wescott, and Andrew Zolnai.

Investments

The purpose of the Investment Committee is to oversee the investment funds (Operating Fund) of the Association and its Divisions. The committee sets investment policies, determines investment allocations, selects appropriate mutual funds, and uses financial planning services to accomplish plans and set goals. The treasurer serves as an ex-officio member and no other member of the Executive Committee may serve on the Investments Committee.

The Operating Fund was established in 1974 to provide the AAPG with financial resources to weather adverse periods in the industry. The Investments Committee oversees and is charged with the responsibility of prudent investment of the funds. The Executive Committee has sole discretion to use or dispose of the funds in the Operating Fund as circumstances require. In 2002, the Investments Committee created an Investment Policy that sets forth the investment structure for managing

the Operating Fund assets. The policy is reviewed annually and minor adjustments are made to the various asset allocation classes.

The market value of the Operating Fund on June 30, 2004, was \$12,493,581.33. Of that total, \$3,441,366.65 (27.6%) was invested in a fixed income fund, \$8,252,378.91 (66.1%) in equity mutual funds, \$653,969.63 (5.2%) in a hedge mutual fund, and \$145,866.14 (1.2%) in short duration investments. The fixed income portion is invested entirely in the Pimco Short Duration Fund that is felt to be less sensitive to anticipated higher interest rates. The equities portion is invested in ABN Amro/Montag & Caldwell Growth Fund (19%), Dodge & Cox Stock Fund (23%), CRM Mid Cap Value Fund (13.4%), Brown Capital Management Small Company Fund (11.1%), Julius Baer International Value Fund (14%), Landus U.S. Small Cap Instructional Fund (11%), and the Sanford Bern Tax Managed Value Fund (8.5%). The Investments Committee uses Larry Thompson & Associates, Inc. for financial planning.

The Investments Committee held meetings in Tulsa on October 3, 2003, and May 3, 2004. Minutes from those meetings are posted to the Investments Committee Web page.

At the October 3, 2003, meeting the committee decided to replace the American Century International Fund, that was under performing its benchmark, with the Julius Baer International Fund. The committee also decided to move out of REITS, selling the Morgan Stanley U.S. Real Estate Fund and used the proceeds to purchase the Austin Capital All Seasons (hedge) Fund.

At the May 3, 2004, meeting the committee agreed to reduce the fixed income target allocation and increase the equities allocation. In general, the committee was satisfied with the performance of the various equity funds and made no changes to the portfolio.

F. Pierce Pratt, Chair

Committee members: John Brock, Jim McGhay, Mike Party, George Bole (vice chair), Terry Hollrah, Dick Howell, and Paul Weimer (treasurer).

Membership

The function of the Committee on Membership is to facilitate membership in the Association by encouraging and reviewing applications, and subsequently recommending action. The Committee also monitors membership requirements

Table 1. Membership by Year

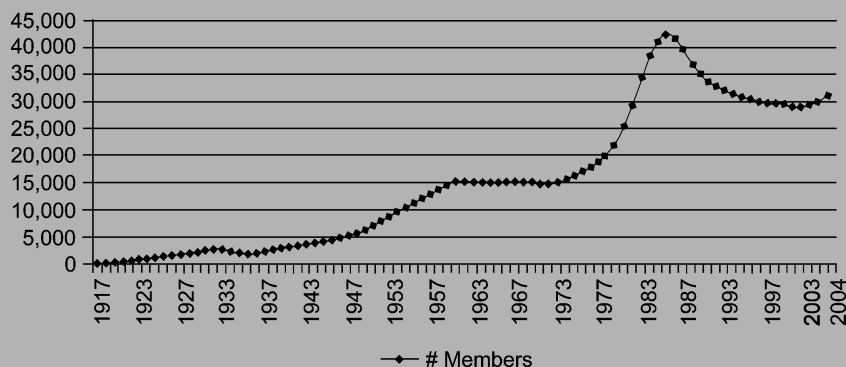
Year	No. of Members	Year	No. of Members
1917	94	1961	15,566
1918	176	1962	15,043
1919	348	1963	14,931
1920	542	1964	15,202
1921	621	1965	15,126
1922	767	1966	15,346
1923	901	1967	15,205
1924	1,080	1968	15,163
1925	1,253	1969	15,189
1926	1,504	1970	14,794
1927	1,670	1971	14,860
1928	1,952	1972	15,332
1929	2,126	1973	15,654
1930	2,292	1974	16,148
1931	2,562	1975	17,083
1932	2,558	1976	18,026
1933	2,336	1977	18,787
1934	2,043	1978	20,106
1935	1,973	1979	22,144
1936	2,169	1980	25,414
1937	2,331	1981	29,259
1938	2,646	1982	34,449
1939	2,951	1983	38,733
1940	3,240	1984	41,034
1941	3,474	1985	42,577
1942	3,717	1986	42,232
1943	3,923	1987	39,824
1944	4,109	1988	37,183
1945	4,326	1989	35,564
1946	4,676	1990	34,038
1947	5,039	1991	33,115
1948	5,530	1992	32,448
1949	6,160	1993	31,619
1950	7,052	1994	31,030
1951	7,892	1995	30,433
1952	8,804	1996	29,947
1953	9,778	1997	29,904
1954	10,759	1998	29,971
1955	11,673	1999	29,852
1956	12,535	2000	29,013
1957	13,434	2001	29,067
1958	14,207	2002	29,405
1959	14,832	2003	30,049
1960	15,420	2004	32,788

and recommends changes in qualifications and classes of membership.

Membership is a topic that is of critical importance to the Association, and much effort and discussion concerning membership currently is occurring outside of the Membership Committee.

- Strategic and financial planning by the Association
- Ad hoc Membership Development and Enhancement Committee chaired by Dan Smith
- Vote by the House of Delegates to reduce the number of sponsors from three to two

AAPG MEMBERSHIP
1917 to Present



The committee held three meetings during the fiscal year: two telephone conference call meetings and a face-to-face joint meeting with the ad hoc Membership Enhancement and Development Committee during the AAPG Annual Meeting in Dallas. A list server was set up to facilitate communication between committee members and to allow asynchronous discussion of membership issues.

Total AAPG membership as of June 1, 2004, was 32,788, and represents a 2.6% increase in total membership since June 1, 2003. However, the total number of Active members decreased by 2.2% during the same period. On June 30, 2004, 2990 members will be dropped for nonpayment of dues.

International membership has grown during the past six years, and represents 33.8% of the total membership as of April 1, 2004. Growth in student membership, which has been spurred by the organization drive for student chapters and the Halliburton payment program, is largely responsible for the growth in international membership.

Items considered by the committee include the following:

- Sponsorship issues: effectiveness in ethical filtering, scarcity of qualified sponsors in some geographical areas, and offensiveness to some potential members
- Need for consensus of where AAPG is and where it is going
- Importance of bringing membership down to the local level
- Growth in international membership
- Membership criteria
- Addressing membership requirements
- The need for additional membership classes

- Simplifying the membership process
- Program assessment and providing value to members
- Competition with sister societies
- Student retention following graduation
- Advancement from Associate to Active membership
- Mission and goals of the committee
- Action item to the Executive Committee: Remove the stipulation from the sponsorship form that states that a sponsor must have known an applicant for one year. This action item is on the agenda for the June 30, 2004, meeting of the Executive Committee.
- Development of mission and goals. Dolly will lead the initiative with the assistance of J. Karlo, J. McColloch, and others.

The Membership Committee has worked closely with the ad hoc Membership Enhancement and Development Committee, and M. Amoudi, R. Cowdery, E. Dolly, and J. McColloch serve on both committees.

Jane McColloch, Chair

Committee members: Jane McColloch (chair), Ed Dolly (domestic vice chair), Gonz Enciso (Diversity Subcommittee chair), and John Karlo (international vice chair).

Academia liaison: John Wickham.

International region leaders: Nosa Omorodion, Africa; Don Rusk, Europe; F. Hasan Sidi, Asia/Pacific; and Mohammad Al-Amoudi, Middle East region.

Sectional leaders: Martha Lou Broussard, Gulf Coast; Bob Cowdery, Mid-Continent; John Forman, Eastern; Robert Groth, Rocky Mountain; and Valary Schulz, Southwest.

Diversity Membership Subcommittee

In any organization, whether social or business oriented, it is critical to have a larger pool of talent with perspectives not necessarily shared by a given homogeneous group. AAPG is taking the lead in the industry by mentoring young, diverse talent in the high schools and universities into joining the petroleum geosciences community; thus, helping to revitalize the energy industry and better representing the makeup of the diverse population and international society in the United States.

When and Where?

- The initial workshop was held in Houston in December 2002. Dan Smith, AAPG president, and Bob Countryman, AAPG Membership Committee chair, joined committee members along with Conrad Allen, president of the National Association of Black Geologists and Geophysicists (NABGG). Jean Hsieh, committee member, represented the Association of Women Geoscientists (AWG). Isaac "Ike" Crumbly from Ft. Valley University, Georgia, gave a major presentation emphasizing how many minority students graduate and go into the energy fields through the Cooperative Developmental Energy Program (CDEP).
- The subcommittee worked very hard to promote and sponsor both the NABGG and AWG as Associate Societies to the AAPG. They received unanimous approval by AAPG in May 2003.
- In June 2003, I represented AAPG at the invitation-only Joint Society Conference on Diversity in the Earth and Space Sciences held at the American Center for Physics, College Park, Maryland. The Joint Society Conference worked on a resolution that the AAPG Executive Committee endorsed late last year.
- Also, in March 2003, Robbie Gries and I received the Platinum Achievement Award, representing the highest honor given to minorities and women who have achieved high-level positions in the fields of energy and education from the CDEP at Fort Valley State University, Georgia, during their Career Days and also presented a contribution to CDEP. This program strives to develop a long-term, mutually beneficial relationship between the University and the nation's energy industry by creating a technology-oriented labor base for minorities and women. It is the only program like it that works in the country, and Ike Crumbly heads it.

What?

We are continuing to work toward a greater diversity within the AAPG. The following are current action items: (1) recommend AAPG keep membership statistics to ensure minority accuracy; (2) take the AAPG VGP/Distinguished Lecture Program to minority schools; (3) suggest the Web site give more prominence to industry careers; (4) insert AAPG news in Associations' newsletters; (5) increase mentoring at the high school level to encourage more minority students to enter the earth sciences; (6) have AAPG representatives at Crumbly's yearly "Work Day"; (7) use AAPG's technical training centers to target women reentering the work force.

Gonz Enciso, Chair

Committee members: Gonz Enciso, Spinnaker Exploration (chair), Pete Carragher, Lyle Baie, Robbie Gries, Jean Hsieh, and Reggie Spiller.

Preservation of Samples and Cores

The mission of the AAPG Committee on Preservation of Samples and Cores is to promote collection, preservation, and utilization of samples and cores as well as those data directly attributable to this rock material to include core analysis, sample descriptions, and stratigraphic assignment. Specifically inclusive would be photographs, petrographic data and descriptions, photomicrographs, porosity, permeability and other rock data, all of which could be digitized and stored in compact storage facilities. A priority is placed on identifying established repositories and constructing automated linkages between potential users and the data listings of these archives. The committee will encourage and support both the AAPG membership and any other individual or appropriate organization in accomplishing this mission.

Sixteen committee members and guests participated in our 2004 committee meeting in Dallas. Several of our members were presenting in the very successful Core Poster Session. Everyone was asked to identify actions and issues. In nearly every report, there are space problems and issues of continued state support for facilities. Two major concerns identified were the (1) pending sale of the Midland International Sample Library and the (2) Unocal collection in California, which is still at risk due to the sale of land and need for relocation of the material. The U.S. Geological Survey Denver Core Research Facility is currently stable

with three on staff, but is annually at budget risk.

On the positive side, the National Science Foundation (NSF) has established archiving policy and identified the Texas Bureau of Economic Geology (BEG) as a repository for data developed by NSF supported research. This support and acquisition of material, facilities, and industry support has established the BEG Houston Research Center. This facility has greatly expanded the BEG collections but already space is limited. The Oklahoma Geological Survey has obtained major sample donations with support and acquired major space in an equipped facility—the Oklahoma Petroleum Information Center (OPIC). It can now accept orphan core, hopefully with a financial contribution.

In other highlights, several facilities have coordinated core workshops with the activities of the Petroleum Technology Transfer Council. The committee will pursue additional coordination with this group.

The Core Poster Sessions have become a very important part of the AAPG Annual Meetings (as well as some sections). Fifteen booths exhibited in Dallas. One booth reported more than 250 participants. Although very successful, this core exhibit requires significant preparation, long hours, and this year was in conflict with our committee meeting. We will work on resolving these problems for Calgary. It was also strongly suggested that the committee have a much more obvious presence during these sessions. Comments and questions that arose at the posters need to be captured for follow-up.

An important part of the agenda focused on the implementation of the recommendations from the published report of the National Research Council (NRC) Board on Earth Sciences and Resources "Geoscience Collections and Data: National Resources in Peril."

The AAPG and AAPG Foundation each contributed \$5000 to this study.

The report recommends steps to assure preservation of critical geoscience data including the following:

- prioritize data for preservation,
- systematically catalog existing collections and data
- establish a distributed network of at least three regional repositories
- establish federal, state, and/or regional incentives and requirements for donations and deposition of data and collections
- adopt standards for citation in scientific and other publications of geoscience data and collections used

- establish advisory committees composed of the user communities for oversight.

These are excellent guides, and leadership is needed to coordinate their implementation. Some activity is occurring on most topics. Several committee action items and individual committee members' efforts will encourage this implementation.

Unfortunately, the support for geoscience data preservation included in the federal energy bill is stalled. However, an American Geological Institute (AGI)-based foundation has been established by Robert M. Sneider to acquire industry funds and includes a National Science Advisory Board for Preservation of Geoscience Data and Collections. A brochure with background and contribution forms is available from AGI. Committee members should obtain and distribute this material. The intent is to generate support for regional facilities as a national priority and create a long-term endowment for geoscience data preservation.

In addition to the focus on implementing the NRC recommendations, the major action items for the coming year include the following:

- Committee membership: annual update (Carlson, chair through 2005),
- Calgary: schedule and customs requirements (Carlson/local committee),
- Federal agencies: preservation protocol needed on projects generating geoscience data and products (E. Allison),
- Communication: AAPG Committee home page (Le Fever),
- Quarterly updates to members (Carlson, Williams-Stroud),
- Additional industry support: potential to collect funds by add-on or check-off on state permit fees (Carlson, Council of State Regulatory Officials), and
- Policy statement on donation value and disposal cost of cores and samples.

Marvin P. Carlson, Chair Sherilyn Williams-Stroud, Vice Chair William Harrison, Vice Chair

Committee members: Edith Allison, Mike Allison, Bill Almon, Allen Britton, Ed Coalson, Debra FitzGerald, Patrick Gooding, Steve Goolsby, William Harrison, Bob Horton, Bob Hulse, Richard Inden, Larry Knauer, Anthony Kolodziej, Mike Kozimko, Rich Lane, Julie Ann Le Fever, Charlie Mankin, Carol Martiniuk, Bill Meaney, Bob Merrill, Jack Moody, Olugbenga Odusote, Doug Patchen, Jim Puckette, Bob Schafer, Scott Tinker, Stephen Tischer, Lesli Wood, and Laura Zahm.

Public Outreach

We are the public face of our profession. The AAPG Public Outreach Committee leads the Association's science-based efforts to educate adults about oil and gas exploration and production, including the need to sustain a reliable energy supply, reduce environmental impacts, and encourage conservation. The committee also educates the adult public about the role of AAPG member geologists as creators of global energy wealth, including other fossil and mineral fuels, upon which the global economy and standard of living are based. The committee will advance the status of AAPG members as scientists engaged in serving society to meet needs for environmentally sound energy.

The methods the committee uses to accomplish its mission include Association and contributor-funded publications, public appearances by its members, and communications to media and information distribution via electronic media.

The committee coordinates its messages with other committees within AAPG and with those of sister societies. The committee will help AAPG develop a central point of contact for public messages.

We have solicited an annual budget line to permit publication of products of the committee and to begin to add to the professional headquarters staff for public outreach. The program accomplishments of the committee for fiscal year 2004 are as follows:

- Erling Brostuen is revising his original *Petroleum Primer* for lay people. This booklet provides the lay person with a synopsis of the exploration and drilling process. This was a best seller at the North Dakota Geological Survey and also as a later version, with Don Baars, at the Kansas Geological Survey. It will include a discussion of petroleum demand and availability, and its role in the nation's energy mix. Discussion will include increasing demands of developing nations and the impact on availability of foreign sources to our domestic needs. Also to be included are development, production, and transportation of crude and natural gas, as well as the environmental aspects of all of the above. It may also discuss today's product costs, adjusted for inflation, and historical costs back to the early 20th century. Although designed as a public outreach project, this could also be a good seller for AAPG.
- The booklet *Energy and Environment, A Partnership That Works* awaits approval for printing. It is a

color-illustrated set of non-technical papers detailing what actual environmental impacts of the E&P industry are, and how modern technology mitigates the impacts. These presentations are those of the September 2002 AAPG President's Conference of the same title, in Washington D.C. The intended audience is all legislators, regulators, and industry activists, with copies going to all affiliated societies for distribution at service club talks and similar venues. Educating people about the realities of what we do is the only way we know how to counter the propaganda from anti-energy organizations. It is funded.

- Two virtual field trips have been compiled and are being scanned into the AAPG Web site. The first, "Geology of the Canadian Rockies," is designed to illustrate typical structures of the Canadian Rockies, and the scenery in which some lucky geologists get to work. The second, "Anatomy of a Reef," is a tour from shoreline to deep ocean bottom, illustrated by organisms in the natural habitats. Photographed mostly in the U.S. Virgin Islands, these images were acquired before the Caribbean reefs declined. We plan to create a file of images of some national parks and monuments, illustrating both geology and scenery.
- We have begun to provide committee members with draft letters to the editor, to use locally, about issues that concern AAPG. It is not yet clear whether committee members will use these. They are to use them as individuals, not as official representatives of AAPG.
- Bob Cowdery surveyed other earth science societies to assess their level of public outreach activity. The Geological Society of America does have a media person on staff. Other general comments: (1) All societies approach public outreach from a slightly different perspective although there are probably more similarities than differences; (2) there appear to be areas for increased cooperation among the societies; and (3) none of the societies have pushed toward greater involvement in Earth Day. This would seem to be an area for greater involvement in which a factual message could be delivered.
- Projects under consideration include (1) a stakeholder's conference on energy-related public outreach needs and activities, (2) an FLB (funny little box) of questions and answers about the petroleum industry and about energy issues for inclusion in the

Explorer; and (3) finding collaborating organizations, such as the American Association of Professional Landmen (AAPL), Interstate Oil and Gas Compact Commission, Independent Petroleum Association of America, and Society of Exploration Geophysicists, to work with us and fund a better professional public outreach effort.

A response to President Sonnenberg's charge to accomplish 23 objectives is presented as the Appendix.

Appendix: Response to President Sonnenberg

In the January 2004 *Explorer*, President Sonnenberg challenged the Public Outreach Committee with 23 goals, many of which the committee had previously undertaken. This is the basis for a dialog with the membership of AAPG and its Executive Committee. The committee responds with the following:

Item 1: Energy Supply and Demand information: This is readily available if someone on the committee can figure out how to disseminate the information. Some of the data are processed into information and can be readily used. What is lacking is knowledge to go with it, in that little accompanies the data or information to tell the average person what this means to them. Government Affairs has tried to address this issue, and we frequently address it in speeches. Perhaps we the committee should write the material, but we need a professional media person to get the information into the public eye. AAPG has plenty of people that could provide that information as a public service, if there was any way to get even a small segment of the public to care. AAPG has never focused on communicating with the public, but we agree that we, as a group, should.

Item 2: Increase public understanding of the profession: Public understanding should include all facets of the science of geology, not just petroleum. A geological education confers far more than just the ability to make a living as a petroleum geologist. Knowledge of geology enhances one's appreciation for all creation, from the alpha to the omega. The committee will work to articulate how this can be accomplished. We do engage in the Earth Science Week, but this is more comprehensive.

Item 3: Educate the public about E&P: We have an active project and funding is pending to complete the project by printing the updated text *Primer on Petroleum*. To a large degree, our public outreach only feeds the concept of the geologist who goes out with his hammer and his sandwich, his magnifying glass and his imagination, and putters with rocks and fossils. Yes, that is good stuff we all identify with and use to get in contact with kids. In that, it is a good thing, but we need to

move beyond science fairs and Earth Day. The number of people in this country (supposedly more enlightened than most) that have any concept of what working geologists do and, more importantly, what they do for them is infinitesimal. To a large degree, that is why our profession does not have a seat at the table for serious discussions on policy issues to which we could offer much. We are a non-entity. If we ever tire of being victims, we, as a profession, would get out of the flannel shirt and blue jeans mode and do something about it.

In addition, the environmental impact of E&P is on the Executive Committee's desk with full funding promised from an external source. This is the most significant piece AAPG has ever done on the actual environmental impacts of petroleum E&P, and could have been distributed months ago during the debates over the energy bill. The energy bill will be seriously deficient in energy production, having purposely foregone any inventory of offshore resources and development of any arctic tests. We should have had an impact on that debate. If ever a product of AAPG was to inform the public about the technology of oil and gas E&P, these two products are the two best (E&E booklet, and the Primer). Without the financial support to produce them, we of the Public Outreach Committee are stymied.

Item 4: Promoting requirements of membership and certification: This is a DPA function, and will be referred to them. The message is not difficult to put together; the conveyance may require professional assistance.

Item 5: Compile successful outreach programs of sister societies: We know of none, but we keep looking.

Item 6: Develop intersociety programs: We have suggested hosting a "Stakeholders Conference" to try to develop a larger and more influential group effort. The chair has appointed a member of the AAPL (Jane Crouch) to our committee, and invited the Geological Society of America to name a representative to our committee. Perhaps this should be expanded to include the American Institute of Mining, Metallurgical and Petroleum Engineers, Society of Petroleum Engineers, and Society of Mining Engineers, as well as outreach conducted by universities such as the Colorado School of Mines.

One committee member has responded with the following (edited): "Getting AAPG involved in intersociety programs for outreach will be about as effective as trying to do something significant by working through the United Nations. This is a dodge that is in effect saying (1) we are not sure if we are capable of doing this ourselves, which is inaccurate, and (2) if we do this with someone else, maybe they will pick up the tab. This

is more 'wanting something for nothing.' For the life of me, I cannot understand why a group containing many, many entrepreneurial sorts who at least in their dreams would emulate the wildcatter image of the tough, independent, risk-taking, go-it-alone type with faith in himself can't make a decision to promote their own cause. Yes, we want to help and receive help from other geoscience and industry-supportive societies, but we need to have an effort of our own."

Item 7: The Public Outreach Committee has actively assisted affiliated societies with materials and encouragement to be active during Earth Science Week. Donna Willette has done great service to the society with her efforts in this area. If the leadership desires a fuller AAPG effort, then we need to appoint a special ad hoc committee to do this specific project. We recommend that Donna be asked to do that, with a budget!

Item 8: Information, speakers, and legislative testimony: This is the province of the Government Affairs Committee, and they have done a good job of this. We coordinate with that committee through several joint members.

Item 9: Public policy on energy issues: Again, this is the responsibility of the Governmental Affairs Committee. Charles Mankin and Carl Smith are the co-chairs of that committee.

Item 10: Coordinate and nurture K-12 programs: This is the main charge to the Youth Education Activities Committee, not the Public Outreach Committee. The Public Outreach Committee coordinates with the Youth Activities Committee to assist as requested in their work. Betsey Campen is our liaison for that effort, and she is also the chair of Youth Educational Activities.

Item 11: Promote convention activities in the host area: I don't think we have ever considered this activity as a committee. If the AAPG Executive Committee moves this responsibility to the Public Outreach Committee from the professional communications staff and convention committee, we will consider it, but we think it is a decision to be made formally by the Executive Committee and coordinated with headquarters.

Item 12: Encourage AAPG members to participate: We agree, but we haven't turned anyone down who wants to work on our issues. We have trouble finding active workers.

Item 13: Develop popular geology projects: We have a virtual field trip in the Canadian Rockies now in to headquarters. The "Anatomy of a Reef" set is also turned in with text notations, and is to be followed by a Grand Canyon set, and other national parks and monuments scenic geology. I hope that the scenery will sell the geology in most of these, but by using them as

virtual field trips our sister societies and individual members can also access them for professional use.

Item 14: Develop one-page fact sheets: We have not found anyone to actually prepare these yet, although we agree that they would be useful, including on the AAPG Web site. In addition, the writing for the public project is waiting for your response on the editorial approach. Phil Ryall and Lee Gerhard are willing to write these, but we need executive committee encouragement because these will express opinions, albeit, professional geological opinions, on energy issues.

Item 15: Create a primer: See item 3. If there is funding to do the hard copy, we have the text underway. We have stopped the project until the Executive Committee budgets the money to publish the primer.

Item 16: Create online PowerPoint slide banks on key issues. When AAPG members create these for talks, we should be able to access them for AAPG. Perhaps an occasional solicitation in the *Explorer* might be helpful for gaining access to materials. In the meantime, some images are available in the Slide Bank area of the AAPG Web site.

Item 17: Promote position papers: This task requires professional public outreach assistance. Getting the media to accept materials from AAPG and use them is something we desire and work toward, but have not been able to accomplish to the degree many desire.

Item 18: Create a speaker's bureau: We thought AAPG had one already, at least we've been called to give presentations.

Item 19: Create an intersociety Public Outreach Committee: This is identical to item 6. Same response.

Item 20: Create relationships with the media: This requires permanent additional staff who are knowledgeable about media relations and who can spend time nurturing such relationships. When the Executive Committee creates a line item in the budget for this activity, we will recruit candidates for such a position.

Item 21: Identify popular geology projects that members can work on: We have started the slide bank and virtual field trips, and are willing to assist local societies find people to help on such projects, but we know of no national level projects. Any ideas here?

Item 22: Participate in education booths at meetings: The GAC already does the National Conference of State Legislators with the American Institute of Professional Geologists and Association of American State Geologists. The Executive Committee will need to create a budget to handle this project. Please advise if you want the convention staff to become involved.

Item 23: Develop a list of commonly asked questions about the petroleum industry. I assume with answers as well. Any volunteers?

Lee C. Gerhard, Chair

Committee members: Paul E. Belanger, Erling A. Brostuen, Charles E. Brown, Elizabeth B. Campen, Donald D. Clarke, Robert D. Cowdery, Denise M. Cox, Lee C. Gerhard (chair), Richard G. Green, Jane R. Crouch, William F. Lawson, Raymond C. Leonard, Lowell K. Lischer, Christopher B. Martin, Erik P. Mason, Thomas R. Moore, Terrilyn M. Olson, Donald A. O'Nesky, William D. Pollard, Philip L. Ryall, William Sarni, Vicki Cowart, James V. White, Lawrence H. Wickstrom, Donna C. Willette, and Victor J. Yannacone.

Publication Pipeline

The mission of the AAPG Publication Pipeline is to collect, inventory, box, store, and send donated geoscience periodicals and used technical books to university and other libraries overseas that are in need of them for use of students and faculty.

Geoscientists Helping Geoscientists

This committee is dedicated to getting books and periodicals to universities and libraries in need.

We have had a successful year enlarging our committee, becoming better organized, and increasing the efficiency of an ongoing operation.

Donations to the Publication Pipeline

We have accepted donations of geoscience publications from 34 individuals consisting of a total of 408 boxes of publications that weigh an average of 35 pounds a box for a total of 14,280 pounds. All of these were picked up, moved, and placed in storage by committee members.

We also received a donation of nine pallets of boxes of publications from ChevronTexaco, who closed a branch company library. These came by freight to our new storage area. Once there, the contents of each box were inventoried by geoscience students of the University of Houston who were arranged for through our committee but paid by ChevronTexaco. The total donation is 369 boxes or about 13,000 pounds. ChevronTexaco will transport this entire donation to a new university in southern Nigeria.

Baylor University has also made a donation of a geoscience library made

redundant by consolidation of natural science libraries. Approximately 70 boxes of publications will be packed and ready for pickup June 30, 2004. That donation will be picked up by a freight company hired by the U.S. Geological Survey and will go to Afghanistan.

Indonesia—The donation of 86 boxes of publications was made to Indonesia in a joint effort with the Indonesian Society of Petroleum Professionals, Houston, and the Indonesian Petroleum Association, Jakarta, Indonesia. In March boxes were distributed to 15 different universities in Indonesia. The AAPG chapters in the universities aided in the distribution. In the last months the AAPG and our committee have been receiving thank you letters from the universities. These letters are pleasant evidence that the publications have made it to students halfway around the world.

Nigeria—A donation of 369 boxes of publications awaits pickup by ChevronTexaco for donation to a new university in southern Nigeria.

Afghanistan—After two years of arrangements, especially pursued by George Klein to help the devastated universities of Afghanistan, our first shipment of 81 boxes of publications is on its way from Baylor University to Afghanistan through the U.S. Geological Survey.

Free Storage Arranged

The J. A. Green Intercontinental Cargo Center West, Robert Kane, manager, has generously provided free storage for our donated books. We have use of two bays in his huge warehouse next to Bush Intercontinental Airport in Houston. This provides room to work and store our inventory that is approaching 40 pallets, about 57,000 pounds.

We have many requests for publications from universities all over the world. Right now our difficulty is arranging shipments at a pace sufficient to equal our intake.

In the next fiscal year special emphasis will be upon getting the word out that there is a real advantage to companies to donate shipping to get publications to universities that need them. This is helpful to the universities, and also to the companies operating in the country or area. The cost is modest and their generosity is immediately apparent.

Inventory and Web Site

Inventory of contents of boxes of publications is necessary. Donors commonly inventory their donations, but several large donations from estates lack an inventory for very understandable reasons.

In addition, it is desirable to consolidate our inventory of holdings in a master list so that we can better choose boxes to send to universities overseas. Individual donations of \$1500 and \$500 have been received to help pay for inventorying.

Having a complete inventory will allow us to place it on the Web site so those desiring donation of publications can see our holdings. Loading our Web site and working with the AAPG on design will be a major effort of the new fiscal year.

Finances

The AAPG provides \$3000 each year for expenses, which is a great help. Costs are involved in the operation. In addition, both operating budget and endowment donations of money are needed. Many donors have generously paid for shipping, but we have lost several large donations because shipping costs were too high for retired donors, and we could not immediately commit to freight shipment. Books are heavy; a shipment to Houston of 2000 pounds from either coast can easily cost \$500 to \$1000.

Request Aid for the AAPG Publication Pipeline

We request aid from the membership in four ways:

- Please consider your company sponsoring a shipment of publications overseas to needy universities in the host country of your operations. That is a win-win activity. We can work with you to help overcome difficulties. We have done it elsewhere!
- When you decide to dispose of your library keep us in mind. Better us than the dumpster! I know my children do not want mine, nor does the local library. Universities overseas often do not have either relevant periodicals or books.
- If you have time to donate, there are jobs to do, especially if your back is in good shape.
- Please donate money to the AAPG Foundation marked for the Publication Pipeline, either endowment or operating funds.

The Publication Pipeline Committee takes great pleasure in corresponding and meeting with the donors of libraries, and great satisfaction in actually getting publications overseas to those who can use them. We are geoscientists helping geoscientists.

Martin M. Cassidy, Chair

Committee members: Martin M. Cassidy (chair), Deborah Adjakaiye, Kunle A. Adesida, David Angstadt,

Michael Bryarly, John S. Dudar, Joe Forrest, Robbie Gries, Catherine Kidd, George Klein, Thomas Klopff, Kehinde Ladipo, Eric Michaelis, Don Van Nieuwenhuis, Nahum Schneidermann, Charlotte Sullivan, Rick Wall (vice chair), Gerrit Wind, and Pinar Yilmaz.

Publications

The function of the Committee on Publications is to assist the Association's elected editor by identifying, recommending, and procuring outstanding papers for publication in AAPG's special publications and in the Bulletin.

The Committee on Publications continues the traditional activities specified in its mission statement by working closely with Editor John Lorenz, Geoscience Director Jack Thomas, and AAPG headquarters staff to bring timely, valuable publications to the membership. From July 1, 2003, to June 30, 2004, AAPG released 11 special publications. Since July 1, 2003, the committee has reviewed six proposals for special publications, approving five of them. Decisions are pending for two other proposals.

Thomas, Lorenz, headquarters staff, Vice Chair Bill DeMis, and I tracked the status of all publications proposed or in progress to ensure that all approved projects remained on schedule. We continue to cull moribund projects. We believe that frequent contact with authors and editors eliminates the potential waste of producing publications whose value drops because of tardiness or interim releases by other publishers. It also ensures that special publication authors and editors are keeping on task.

Although many recent releases and projects are in production, there are relatively few new proposals for special publications. This may stem from the dramatic reduction of the *Bulletin* backlog because authors realize that their papers can be published more quickly in the *Bulletin* than as part of a special publication. Several specialists are compiling seminal papers in their specific disciplines and are providing expert commentary about the value of each paper. These collections will be released on CD. However, our entire committee must intensify its effort to solicit other proposals. One avenue we have not yet pursued vigorously is publications from select Hedberg Conferences and outstanding AAPG technical sessions.

The committee will meet on August 27, 2004, in Houston with telephone or other remote collaboration for those

unable to travel to the meeting. At that time we will review the offerings of AAPG and other publishers to identify publication gaps that AAPG can fill. We will also evaluate the need and feasibility of soliciting additional contributions for special publications by designating a committee member to solicit funds for each project.

As usual, the committee welcomed several new members this year and thanks members leaving the committee for their diligence. I thank Bill DeMis for volunteering to help with several demanding projects as vice chairman, and AAPG headquarters staff for their diligence and efforts to maintain continuity throughout organizational changes. I thank John Lorenz and Jack Thomas for their exceptional efforts in working with the committee.

Gretchen Gillis, Chair

Committee Members: Stacy Atchley, Paul Catacosinos, Edward Coalson, Timothy Coburn, Russell Davies, William DeMis, John Doveton, Janell Edman, Mel Erskine, Carmen Fraticelli, Dengliang Gao, Donald Gautier, Steven Goolsby, James Granath, Carolyn Green, James Handschy, Barry Katz, Jerry Lucia, Terrilyn Olson, Jack Pashin, Douglas Peters, François Roure, David Sivils, Raymond Sorenson, Russell Stands-Over-Bull, Denise Stone, Michael Sweet, Anthony Tankard, Laird Thompson, Lesli Wood, Qingming Yang, and Pinar Yilmaz.

Research

The function of the Committee on Research is to monitor activities in geoscience research that relate to the exploration and production of petroleum and other energy minerals; to promote the interchange of research ideas through conferences and symposia; to assist other AAPG committees with matters pertaining to research activities; and to initiate, sponsor, and/or cooperate with organizations in gathering data and preparing reports on subjects of high interest to geoscientists.

The committee consists of two subcommittees (Hedberg Conference and Academic Geoscience Survey) and two research groups (Reservoir Deformation and Unconventional Petroleum Systems).

Among the most important activities of the Research Committee is development and sponsorship of AAPG's Hedberg Conferences and Research Symposia.

Hedberg Conferences held since the last report include the following:

- "Fundamental Advances and New Applications from a Holistic View of Mechanical and Chemical Processes," Austin, Texas, February 8–11, 2004
 - "Carbonate Reservoir Characterization and Simulation: From Facies to Flow Units," El Paso, Texas, March 15–18, 2004
- Hedberg Conferences approved and planned at the time of the preparation of this report are
- "Sandstone Deposition in Lacustrine Environments: Implications for Exploration and Reservoir Development in the Central and Eastern Paratethys Region," planned for Baku, Azerbaijan, May 15–18, 2004
 - "Origin of Petroleum—Biogenic and/or Abiogenic and Its Significance in Hydrocarbon Exploration and Production," planned for Vienna, Austria, July 11–14, 2004
 - "Gas Hydrates: Energy Resource Potential and Associated Geologic Hazards," planned for Vancouver, Canada, September 12–16, 2004
 - "Understanding, Exploring and Developing Tight Gas Sands," planned for Colorado, 2005.

At its annual meeting, the committee discussed the costs associated with Hedberg Conferences. AAPG provided information on their estimates for costs associated with these conferences. The AAPG has concluded that it takes 12–18 months from the time a proposal is approved to the actual conference. This requires careful planning. Several committee members concluded that administrative and logistical costs for conferences designed for less than 50 participants should not be the same as those for conferences designed for more than 50 participants.

Potential solutions, other than securing sponsorship for the conference, to reduce the administrative and logistical costs for conferences designed for less than 50 participants include finding a local entity to assist AAPG in handling the logistics of the conference, conducting the conference in association with the AAPG Annual Meeting or a sectional meeting, identifying a fixed site that is guaranteed a conference annually for three to five years, and identifying a single site where several conferences of 50 or fewer participants could be conducted over about a two-week period and/or conducting the conference at an AAPG learning facility, such as Dallas, on a university campus or at an industry facility.

The committee agrees that support of Hedberg Conferences that focus on a

specific geoscientific singular topic designed for a group of 50 or fewer participants is important to the success of the Hedberg Conference program. Such a conference has the potential to lead to a significant advance in technology, and high registration fees should not compromise the conference.

A subcommittee consisting of Steve Laubach (chair), Edward Denman, Linda Bonnell, and Ernest Mancini was constituted by the chair to study the merits of identifying a single site that several conferences consisting of 50 or fewer participants could be conducted over about a two-week period. The subcommittee is to report back to the committee on their findings at the 2005 Research Committee meeting in Calgary. Other committee member suggestions regarding Hedberg Conferences included providing a reduced registration fee for student participants, including financial as well as technical guidelines to conference conveners, and structuring the conferences along the lines of an SPE Forum, which is based on structured discussions and long breaks to stimulate discussion rather than formal presentations.

A report was made on the activities of the Reservoir Deformation Group at the annual meeting. The Unconventional Petroleum Systems Group made no report. The committee restated its goal to increase the number of research groups. Committee members were charged to initiate plans for new research groups.

Barry Katz reported on the 2003 survey of the status of academic geoscience departments that he conducted through the committee. This survey represents the 10th survey by the committee. It represents a reinitiation of an annual program sponsored by the committee. The current survey had a response rate of about 18%.

This year's study suggests that there has been a decrease in department size as measured by both the number of faculty positions and the number of students (total, undergraduate, graduate). Graduate students account for about 38% of the student population. The number of doctoral candidates as a percentage of graduate student population has increased. Foreign students account for nearly 29% of the graduate student population. These students represent approximately 36% of the Ph.D. candidates and 22% of the masters' candidates. This represents a significant increase over last year.

The top three reported academic strengths are environmental geology, stratigraphy, and hydrogeology. Environmental geology replaced

stratigraphy as the most often reported departmental strength. Only six departments report petroleum geology as strength.

The average research funding was \$256,000, with 90% of the funding being obtained from government agencies. Normalized results indicate that the petroleum industry (including petroleum research) accounts for about 17% of graduate hiring. This is a decrease from the last survey. The percentage of graduates obtaining jobs in the environmental sector increased, accounting for more than 55% of the reported job placements.

Ernest A. Mancini, Chair

Committee members: Michael Abrams, Thomas A. Blasingame, Linda M. Bonnell, Arthur E. Burford, Robert C. Burruss, Angel Francisco Callejon, Paul A. Catacosinos (Hedberg Conference subcommittee chair), Jean-Yves D. Chatellier, Christopher D. Connors, John B. Curtis, Edward Denman, James R. Garrison, Jose I. Guzman, Peter H. Hennings, James W. Jennings, Barry J. Katz (Academic Geoscience Survey subcommittee chair), Stephen E. Laubach (vice chair), Benny E. Law, Susan Longacre, Robert G. Loucks, Ernest A. Mancini (chair), Donald A. Medwedeff, Marcio R. Mello, David Morse, Prasanta K. Mukhopadhyay, Charles R. Noll, Jr., Dag Nummedal, Jeffrey A. Nunn, William C. Parcell, Richard A. Parker, Martin A. Perlmutter, Patricia A. Santogrossi, Steven Schamel, Wolfgang E. Schollnberger, Andrew R. Scott, Mark Stephenson, Regina N. Tempel, David M. Weinberg, and Brian A. Zaitlin.

Resource Evaluation

The function of the Resource Evaluation Committee is to provide input and facilitate resource assessments for agencies within the U.S. government and other appropriate groups. The group also monitors the status of U.S. and international hydrocarbon resources. The committee may audit the assessment methodology used by other groups; it may publish its own resource estimates only if they are fully documented with appropriate maps, statistics, and explanation of methodology.

From July 1, 2003 to June 30, 2004, Naresh Kumar and Earl Ritchie continued as the chair and vice chair for the committee.

The committee held its mid-year meeting in Houston on November 14, 2003. Alexei Milkov of BP and Art Johnson, consultant, gave presentations on the potential and commercial viability of gas hydrates. Also, at the mid-year meeting, Andrew Slaughter from Shell gave a summary of the final report issued by the National Petroleum Council in September 2003, entitled "Balancing Natural Gas Policy: Fueling the Demands of a Growing Economy."

The committee held its annual meeting in Dallas on April 17, 2004, during the AAPG Annual Meeting. Presentations by Paul Haryott from ChevronTexaco on corporate-wide exploration risk management, by Andrew Barrett of Geoscience Australia on resource assessment studies in Australian basins, and by Valdis Budrevics (on behalf of committee member Ray Leonard) on Russian reserves were featured at this meeting.

Other highlights of the committee activities during the last year follow:

- Committee member Lance Cook has authored a position paper on the Wilderness Society Report "Energy and Western Wildlands (2002)." This position paper points out that policy decisions on land use need to be based on a long-term view of prices and technology and should consider the nation's needs against any risks imposed by exploration and development. The AAPG Executive Committee approved the paper on June 30, 2004.
- The Minerals Management Service (MMS) through committee member Pulak Ray, has requested the Committee on Resource Evaluation (CORE) to review their methodology for assessing the U.S. Outer Continental Shelf. A CORE subcommittee consisting of committee members Naresh Kumar, Earl Ritchie, Rusty Riese, John Ritter, and Bob Stancil, and invited experts Chris Schenk and Jack Schuenemeyer met with MMS personnel at their New Orleans offices on May 17–18, 2004. A first draft of the report would be made available to MMS by September 30, 2004.
- CORE's input has been requested in reviewing the "United Nations Framework Classification for Energy and Mineral Resources." This framework classification includes oil and gas, as well as uranium and other energy minerals. This classification attempts to build on the Society of Petroleum Engineers/World Petroleum Congress/AAPG resource classification of 2000. Individual comments on the document

from members Ken Mallon, Naresh Kumar, Brenda Pierce, Gary Lore (on behalf of Pulak Ray), and Earl Ritchie have been forwarded to the United Nations Framework Classification (UNFC) Committee.

- The Society for Petroleum Engineers (SPE) has requested CORE's input on a glossary defining oil and gas terms, including various resource-related items. Our group is reviewing the document.
- CORE is also monitoring the work being done within AAPG, in conjunction with SPE, on the issue of certifying engineers and geologists in reserves calculations and auditing. Calls for such a certification have come as a result of recent downgrades of reserves by several companies.

Naresh Kumar, Chair

Committee members: Brenda Pierce, Christopher Schenk, Clarence W. L. Cook, John B. Curtis, Michael K. Decker, Jeffrey F. Eppink, William L. Fisher, Ronald L. Grubbs, Robert D. Gunn, Ben D. Hare, Naresh Kumar (chair), Paul R. La Pointe, Raymond C. Leonard, Charles J. Mankin, Erik P. Mason, Richard D. Nehring, William D. Pollard, Pulak K. Ray, Walter C. Riese, Earl J. Ritchie, John E. Ritter, Wolfgang E. Schollnberger, Robert W. Stancil, M. Ray Thomasson, and Suzanne D. Weedman.

Student Chapter

The function of the Student Chapter Committee is to oversee and administer the Student Chapter Program.

The programs the committee administered continued to be well received on campuses and at AAPG functions this past year.

The number of student chapters continued to grow both in the United States and overseas (69 domestic, 63 outside the United States). There are currently 132 chapters versus 114 a year ago, continuing a growth trend that has averaged approximately 15% annually over the past seven years.

Student membership is at its highest level in more than ten years and in the past two years has witnessed a clear impact from Halliburton's leadership as a sponsor of student membership dues. Twenty-two chapters will receive distributions from the L. Austin Weeks Undergraduate Grant program—\$1000 split between a selected student and the student's department. All presenters in the student-only sessions at the annual

meeting were given \$25 gift certificates from the Kansas Geological Survey for the AAPG Bookstore in addition to competing for the Best Speaker/Best Poster awards (sponsored by Shell Foundation). Four student chapters will receive distributions for chapter activities from proceeds at the 2004 AAPG Annual Meeting General Store for their work at the store (Louisiana State University, Stephen F. Austin University, University of Oklahoma, and University of Wisconsin-Madison). The chapters from Louisiana State University and Hasanuddin University of Indonesia were recognized as Outstanding Chapters and awarded \$1000 each in addition to a plaque recognizing their accomplishments (Schlumberger doubled their sponsorship of this program for 2004).

The ExxonMobil sponsored student reception at the AAPG Annual Meeting continues to draw a large audience for the announcement of Best Speaker/Best Poster and Outstanding Student Chapter awards as well as a festive social environment.

Beginning in early 2004, the Student Chapter Committee undertook a reevaluation of the student-only technical sessions at the annual meetings. As of July, the results of the efforts of a subcommittee were being finalized for consideration by the Executive Committee. The topics examined include increasing student participation levels, abstract deadlines, perception of student-only sessions, abstract authorship, and sponsorship of awards.

This year brought a change in personnel at AAPG headquarters with the arrival of Mike Mlynek as the new student affairs coordinator. The student affairs coordinator position is critical to the day-to-day management of AAPG's student programs as well as many functions at the annual meeting, student expos, and other events. The committee looks forward to working closely with Mike on current and future efforts.

This report represents my final contribution to AAPG as chair of the Student Chapter Committee. It has been a rewarding three-year term for me, and I hope to have made an impact. I leave the committee in the capable hands of William "Bill" Houston, who will serve as chair of the committee for 2004–2007.

James V. White, Chair

Committee members: Justin B. Bellamy, Martha Lou Broussard,

Ryan D. Christensen, Robert T. Clarke, Robert L. Countryman, Gloria D. Cummins, Michael M. Deal, Frank G. Ethridge, Cristy Harrison, William E. Hottman, William S. Houston, Piotr Krzywiec, Henry A. Legarre, Peter Mackenzie, James M. Party, Susan A. Waters, and James V. White (chair).

Virtual Student Expo (ad hoc)

In the summer of 2003 the AAPG, Society of Exploration Geophysicists (SEG), Geological Society of America (GSA), and Society of Petroleum Engineers (SPE) joined to develop a Virtual Student Expo (VSE).

The VSE will be a global, online career center where student members of one of the four societies may post information about themselves at no charge. For a fee, potential employers (subscribers) can search these postings to find candidates for employment. In addition, employers will be able to post jobs.

Professional societies have individually and jointly sponsored student expos and job fairs throughout the years, and many companies recruit at individual schools. AAPG and SEG have held successful joint student job expos in Houston since 1998 and have now begun regional job fairs. SPE and GSA hold job fairs at their annual meetings. Despite these efforts, the vast majority of students (an estimated 90–95%) can neither travel to these fairs nor are visited by recruiters. The VSE will give student members, any place in the world, an opportunity to present themselves to potential employers. The VSE is not intended to replace an employer's normal recruitment efforts, but to supplement it with a screening tool, significantly increasing the pool of potential applicants.

During the 2003–2004 fiscal year, the joint committee made up of a member and a staffer from each society developed a proposed design of the Web site and sent out a request for bids to potential site developers. Boxwood Technologies was selected as being the most able to implement our needs. At the January and February Executive Committee meetings of the four societies the proposal was approved for a trial basis of three years. A contract was drawn up as was a joint agreement between the four societies. As of June 30, 2004, Boxwood is developing the Web site.

The VSE design would include the following student information posted for free by students:

- Resumes—Each student will be able to

post a keyword searchable resume or profile on the VSE Web site. The students will only have access to their own posting whereas potential employers will have access to all. Students will be able to change and edit their postings. The sponsor societies will have access to delete out-of-date postings. Only student members of one of the participating societies will be able to use the site and the Web site will be able to handle daily updates from societies of their student membership. Access will be keyed to a society membership number or password (1 megabyte).

- Video—Students will be able to post a three-minute digital video of themselves talking about their research, experience, and aspirations. Students for whom English is their second language will be encouraged to do a 4-minute video, with two minutes in their native language and two minutes in English. Students will be responsible for all costs associated producing the video (5 megabytes).
- PowerPoint Presentations—Students can also post digital presentations of their research using PowerPoint or some similar presentation program (1 megabyte).

A four-society steering committee is currently (June 30) working with Boxwood in the development phase and expect to be online by the first week in August.

Martha Lou Broussard

Committee members:
Martha Lou Broussard (chair) and
Robert L. Countryman.

Visiting Geologist Program

The function of the Committee on Visiting Geologists Program is to provide college and university students worldwide a balanced picture of geosciences in the petroleum, energy minerals, and environmental industries; provide information about careers in the geosciences; present a positive image of a geoscience professional; and encourage geoscience career options for young scientists of high caliber. These goals will be achieved through direct student contact during college and university visits by active geoscientists.

This has been a year of some accomplishments for the Visiting Geologist Program (VGP) (formerly the

Visiting Petroleum Geologist Committee), but there have been some negative aspects also.

There have been 79 visitations made of which 48 were domestic and 31 were international. Particularly noteworthy, internationally, are the seven visitations made by Rima Petrossian and the six made by Chuck Caughey. There were also four visits by Chris Heath and three by vice chairman John Hogg in Canada. Although there was an increase, both domestically and internationally, the number of visitations should have been a much higher figure in light of the efforts made to publicize the program.

Cammy McKnight, VGP coordinator in Tulsa, sent 400 brochures to educational institutions. Help in securing visits was requested from VGP speakers, VGP committee, delegates to the House of Delegates, presidents of affiliated societies, chapter advisers to student chapters, faculty members attending the Geological Society of America meeting in Seattle, and others. In addition, 245 educational institutions were contacted via the Internet on several occasions during the year. One hundred faxes were forwarded to selected schools. The list of schools visited indicates that there has been some increase in requests from schools with lower enrollments. This would appear to be a good sign.

There were 96 outstanding speakers available to the program—74 domestic and 22 international during the 2003–2004 program year. Vice chairman, Peter Lloyd, has made a concerted effort to increase the exposure of the program internationally. Another development has been a contact made with Conrad Allen, president of the National Association of Black Geologists and Geophysicists, in an attempt to add geologists from his organization to the VGP. An enthusiastic response was received from Allen. This will be pursued.

At the AAPG Annual Meeting in Dallas, the Visiting Geologist Program committee met with 25 individuals recorded as attending. A request was made of those attending to express their thoughts concerning VGP and improvements that might be made. A follow-up e-mail was sent to the VGP committee and VGP speakers requesting input from them. We received a number of good suggestions.

Some of these are (1) more emphasis on international, both on the Web page and in the brochure; (2) a central pool for slides; (3) repeat visits

to institutions; (4) a proactive approach; (5) community college visits; (6) review of nonparticipation by speakers; (7) increased communication with those managing the Distinguished Lecture Program.

Bob Cowdery, Chair

Committee members: Richard Green, John Hogg, Peter Lloyd, Bayo Akinpedu, Chuck Caughey, Chris Heath, Susan Landon, and Dave Weinberg.

Young Professionals (ad hoc)

The mission of the Young Professional Committee is to foster a challenging and successful career in the energy business for recent college graduates and early career geoscientists as well as build an understanding of the value of a lasting relationship between AAPG and young professional members.

Accomplishing this mission will require (1) open communication with students about careers in earth science; (2) identifying and serving early career needs of young geoscientists; and (3) offering opportunities for networking, career guidance, learning, and enhancing professional competence. We would like to note the support and encouragement for the committee's formation by Past President Dan Smith and the executive staff of AAPG.

It has been an exciting inaugural year for the Young Professional Ad-Hoc Committee as the committee tries to identify the best methods to meet our stated mission. As we try to better serve the general membership of the AAPG we will try to provide services that will equally benefit the international members.

One of the priorities is to establish an active forum on the AAPG Web site where early career geoscientists can post comments or questions to the general geoscience community. The committee senses this is the best way to encourage participation from any interested party on a global scale. Once active, the Division of Professional Affairs has graciously offered to monitor the forum and provide the highest quality feedback possible from some of the association's most respected members. AAPG has provided a lot of effort into making this forum possible, and we expect it to be active in 2004.

Another initiative was to develop an idea for a short course to be held at the 2004 APPEX. The committee is pleased to announce that a course targeted toward early career geoscientists is on the schedule for APPEX this year, and we hope it will be a successful offering.

The committee is also trying to identify the best way to absorb some of the responsibilities of the Mentoring Ad-Hoc Committee, which no longer exists. This has not been a priority for the Young Professionals to date but is sure to get more attention in 2004–2005.

Matthew Boyd, Chair

Committee members: Matthew Boyd (chair), Phebe Blaylock (vice chair), Jeff Barndt, Justin Bellamy, Susan Cunningham, Chris Heath, Jared Haight, Sankar Muhuri, Richard Steinmetz, and Donna Riggs (staff liaison).

Sidney Powers Memorial Award

The Sidney Powers Memorial Award is a gold medal given in recognition of distinguished and outstanding contributions to, or achievements in, petroleum geology.

1945 – Wallace E. Pratt
 1947 – Alexander Deussen
 1948 – A. I. Levorsen
 1950 – Everette L. DeGolyer
 1951 – Max Steineke
 1952 – K. C. Heald
 1953 – Frederic H. Lahee
 1954 – George Martin Lees
 1956 – William Embry Wrather
 1957 – J. P. D. Hull
 1958 – Paul Weaver
 1959 – Raymond C. Moore
 1960 – Henry V. Howe
 1961 – Clarence L. Moody
 1962 – Lewis G. Weeks
 1963 – Hollis D. Hedberg
 1964 – Edgar W. Owen
 1965 – Victor Elvert Monnett
 1966 – William B. Heroy, Sr.
 1967 – Carey Croneis
 1968 – Maurice Ewing
 1969 – Ira H. Cram, Sr.
 1970 – Frank R. Clark
 1971 – Frank A. Morgan
 1972 – Morgan J. Davis, Sr.
 1973 – Gordon I. Atwater
 1974 – G. Moses Knebel
 1975 – Dean A. McGee
 1976 – W. Dow Hamm
 1977 – Michel T. Halbouty
 1978 – Kenneth H. Crandall
 1979 – William Hirst Curry, Jr.
 1980 – Kenneth K. Landes
 1981 – Mason L. Hill
 1982 – Daniel A. Busch
 1983 – Grover E. Murray
 1984 – Robert J. Weimer
 1985 – J. Ben Carsey
 1986 – Merrill W. Haas
 1987 – James E. Wilson
 1988 – Rufus J. LeBlanc, Sr.
 1989 – Hugh Neumann Frenzel
 1990 – John T. Galey
 1991 – John E. Kilkenny
 1992 – Sherman A. Wengerd
 1993 – Robert R. Berg
 1994 – William L. Fisher
 1995 – John D. Haun
 1996 – Bernold M. Hanson
 1997 – Robert D. Gunn
 1998 – Albert W. Bally
 1999 – Norman H. Foster

2000 – Gerald M. Friedman
 2001 – Robert M. Sneider
 2002 – James L. Wilson
 2003 – Peter R. Vail
 2004 – Lawrence W. Funkhouser

Honorary Members

Honorary membership is bestowed upon persons who have distinguished themselves by their service and devotion to the science and profession of petroleum geology and the Association.

*2004 Recipients

Mahmoud Abdul-Baqi, 2003
 John J. Amoruso, 1987
 Albert W. Bally, 1986
 Thomas D. Barber, 1997
 Ted L. Bear, 1988
 Allan Parnell Bennison, 1999
 Robert R. Berg, 1985
 D. L. Blackstone, Jr., 1990
 Richard R. Bloomer, 1987
 George R. Bole, 1999
 Louis C. Bortz, 1988
 Martha Lou Broussard, 2004*
 John M. Browning, 1985
 Daniel A. Busch, 1978
 David G. Campbell, 1995
 A. T. "Toby" Carleton, 2000
 Paul A. Catacosinos, 2000
 Stewart Chuber, 2004*
 Robey H. Clark, 1985
 James M. Coleman, 2002
 Robert D. Cowdery, 1987
 Brenda K. Cunningham, 2001
 Herbert G. Davis, 1986
 Gerard J. Demaison, 1995
 Wallace de Witt, Jr., 1999
 Thomas W. Dibblee, Jr., 1996
 Fred A. Dix, Jr., 1986
 William L. Fisher, 1990
 Peter T. Flawn, 1983
 Gerald Manfred Friedman, 1990
 Lawrence W. Funkhouser, 1984
 Lee C. Gerhard, 1997
 James A. Gibbs, 1995
 Ned (E. E.) Gilbert, 2001
 Robert N. Ginsburg, 1991
 William E. Gipson, 1991
 Kenneth W. Glennie, 2003
 August Goldstein, Jr., 1981
 Howard R. Gould, 1979
 Patrick J. F. Gratton, 2002
 Willard R. Green, 1998
 Robbie Rice Gries, 1998
 Walter P. Grün, 2003

Robert D. Gunn, 1983
 Merrill W. Haas, 1979
 Michel T. Halbouty, 1969
 Frank W. Harrison, Jr., 1986
 James Austin Hartman, 1992
 John D. Haun, 1984
 William B. Heroy, Jr., 2001
 Melvin J. Hill, 1979
 Myron K. Horn, 1997
 James R. Jackson, Jr., 1982
 Robert R. Jordan, 1993
 John R. Kerns, 1993
 Robert E. Klabzuba, 1992
 Susan M. Landon, 2000
 Rufus J. LeBlanc, 1981
 James O. Lewis, 1986
 Robert G. Lindblom, 1999
 John P. Lockridge, 1987
 Charles J. Mankin, 2000
 John A. Masters, 1996
 Robert E. Megill, 1993
 Fred Franke Meissner, 2001
 Daniel F. Merriam, 1996
 Richard F. Meyer, 1987
 Harry A. Miller, Jr., 1985
 Marcus E. Milling, 1998
 Robert M. Mitchum, Jr., 2000
 Raul Mosmann, 2002
 William R. Muehlberger, 1995
 D. Keith Murray, 1988
 Arne R. Nielsen, 1992
 John M. Parker, 1987
 Douglas G. Patchen, 2004*
 James A. Peterson, 1996
 M. Dane Picard, 1994
 George B. Pichel, 1991
 Edward B. Picou, Jr., 2002
 Max G. Pitcher, 1994
 Lewis S. (Stan) Pittman, 2001
 Eugene F. "Bud" Reid, 1991
 David G. Roberts, 2001
 Peter R. Rose, 2002
 Edward C. Roy, Jr., 1993
 Nahum Schneidermann, 1994
 John W. Shelton, 1990
 Roger M. Slatt, 2003
 Carl J. Smith, 2001
 Robert M. Sneider, 1994
 Bill St. John, 1988
 Donald Sherwood Stone, 1994
 Paul M. Strunk, 1999
 John A. Taylor, 1982
 M. Ray Thomasson, 2003
 Bernard P. Tissot, 1987
 Don F. Tobin, 1998
 Harrison Lee Townes, 1997
 Marion Orville Turner, 1984
 Peter R. Vail, 1991
 Arthur M. Van Tyne, 1996
 Koenraad Weber, 2004*
 Robert J. Weimer, 1982

James E. Wilson, Jr., 1977
James Lee Wilson, 1987
Larry D. Woodfork, 1990
Donald L. Ziegler, 1986

**Deceased Honorary Members with
Year of Election or Year of Award**

John Emery Adams, 1966
Gordon I. Atwater, 1969
Fritz L. Aurin, 1960
Andrew D. Baillie, 1990
Leonidas T. Barrow, 1959
N. Wood Bass, 1961
B. Warren Beebe, 1966
Alfred H. Bell, 1962
Leslie Bowling, 1975
Don R. Boyd, 1989
Carl C. Branson, 1973
Jules Braunstein, 1980
George S. Buchanan, 1965
H. P. Bybee, 1956
M. R. Campbell, 1934
Carlos Walter M. Campos, 1992
Joe Cannon, 1994
Everett Carpenter, 1958
J. Ben Carsey, 1966
Arlo E. Childs, 1970
H. Victor Church, 1987
Frank R. Clark, 1958
Leslie M. Clark, 1976
George V. Cohee, 1963
Frank B. Conselman, 1970
Kenneth H. Crandall, 1972
Ira H. Cram, Sr., 1964
Carey Croneis, 1965
William H. Curry, Jr., 1973
Doris S. M. Curtis, 1983
N. H. Darton, 1938
Morgan J. Davis, Sr., 1964
Ralph E. Davis, 1960
L. Courtney Decius, 1975
C. E. Decker, 1927
Ronald K. DeFord, 1965
E. L. DeGolyer, 1944
Alex Deussen, 1953
Parke A. Dickey, 1989
Carroll E. Dobbin, 1957
Charles F. Dodge III, 1999
Robert H. Dott, Sr., 1962
E. T. Dumble, 1926
John E. "Brick" Elliott, 1970
Samuel P. Ellison, 1982
Elmer W. Ellsworth, 1972
W. H. Emmons, 1946
Maurice Ewing, 1968
Norman L. Falcon, 1973
John L. Ferguson, 1969
Norman H. Foster, 1993
Hugh N. Frenzel, 1982
H. B. Fuqua, 1983
John T. Galley, 1980
John E. Galley, 1983
G. C. Gester, 1949
George R. Gibson, 1973
H. B. Goodrich, 1929
C. N. Gould, 1943

Cecil H. Green, 1993
George C. Grow Jr., 1988
Eduardo J. Guzmán, 1972
Dollie R. Hall, 1963
W. Dow Hamm, 1967
Marcus A. Hanna, 1962
Bernold M. Hanson, 1984
Charles J. Hares, 1959
G. D. Harris, 1935
T. S. Harrison, 1956
Roy T. Hazzard, 1959
John C. Hazzard, 1973
Kenneth C. Heald, 1957
Hollis D. Hedberg, 1967
Thomas A. Hendricks, 1971
William B. Heroy, 1957
Mason L. Hill, 1966
R. T. Hill, 1926
John M. Hills, 1980
William J. Hilseweck, 1969
Harold W. Hoots, 1974
Henry V. Howe, 1967
J. V. Howell, 1956
M. King Hubbert, 1974
J. P. D. Hull, 1951
George S. Hume, 1954
V. C. Illing, 1960
H. R. Johnson, 1953
Percy E. (Peter) Kent, 1976
John E. Kilkenny, 1972
Robert E. King, 1970
Robert M. Kleinpell, 1973
Hugh Douglas Klemme, 1991
G. Moses Knebel, 1965
Samuel H. Knight, 1959
Edward Koester, 1971
Frank E. Kottlowski, 1985
Hans G. Kugler, 1968
F. H. Lahee, 1947
Kenneth K. Landes, 1962
A. C. Lawson, 1937
M. M. Leighton, 1950
A. I. Levorsen, 1957
Ray C. Lewis, 1993
Theodore A. Link, 1962
E. R. Lloyd, 1950
John David Love, 1995
Leonard F. McCollum, 1974
Dean A. McGee, 1989
Duncan A. McNaughton, 1988
Maurice G. Mehl, 1961
Lee Hillard Meltzer, 1983
W. C. Mendenhall, 1935
Willis G. Meyer, 1984
Ralph LeRoy Miller, 1988
H. D. Miser, 1948
V. E. Monnett, 1955
Clarence L. Moody, 1956
Graham B. Moody, 1962
John D. Moody, 1972
Raymond C. Moore, 1957
Robert B. Moran, 1959
Frank A. Morgan, 1961
Harold T. Morley, 1968
Grover E. Murray, 1970
Jerry Bowers Newby, 1967

Gordon B. Oakeshott, 1981
W. W. Orcutt, 1926
Ezequiel Ordóñez, 1935
Edgar W. Owen, 1960
Ben H. Parker, 1966
Thomas Hughes Philpott, 1993
Wallace E. Pratt, 1957
R. D. Reed, 1939
John L. Rich, 1954
John T. Rouse, 1971
R. Dana Russell, 1976
R. D. Salisbury, 1919
E. F. Schramm, 1956
Charles Schuchert, 1934
E. H. Sellards, 1946
C. L. Severy, 1958
Laurence L. Sloss, 1981
G. O. Smith, 1920
William C. Spooner, 1958
Hans Stille, 1937
J. A. Taff, 1934
Charles H. Taylor, 1961
W. Taylor Thom, Jr., 1958
Arthur C. Trowbridge, 1958
Daniel Trumpy, 1964
Edd R. Turner, 1982
W. H. Twenhofel, 1946
J. A. Udden, 1927
E. O. Ulrich, 1936
Martin Van Couvering, 1967
W. A. J. M. van der Gracht, 1936
F. M. Van Tuyl, 1949
Walter A. Ver Wiebe, 1955
H. H. von Hofer, 1924
William A. Waldschmidt, 1979
Robert F. Walters, 1987
Theron Wasson, 1960
Paul Weaver, 1956
Lewis George Weeks, 1967
Sherman A. Wengerd, 1977
David White, 1919
I. C. White, 1926
W. G. Woolnough, 1941
W. E. Wrather, 1943

**Michel T. Halbouty
Human Needs Award**

The Michel T. Halbouty Human Needs Award is given each year by the Association as an exceptionally high honor to an individual for the most outstanding application of geology to the benefit of human needs, and to recognize scientific excellence.

1972 – Wallace E. Pratt
1973 – Hollis Dow Hedberg
1974 – Cecil H. Green
1975 – Michel T. Halbouty
1976 – Lewis G. Weeks
1977 – Martin Van Couvering
1978 – Vincent E. McKelvey
1979 – M. Gordon Frey
1980 – Creighton A. Burk

1981 – Thomas W. Dibblee, Jr.
 1982 – David M. Evans
 1983 – Harrison H. Schmitt
 1984 – Dean A. McGee
 1985 – Leonard F. McCollum
 1986 – Eugene F. Reid
 1987 – Richard P. Sheldon
 1988 – Victor E. Oppenheim
 1989 – Guillermo P. Salas Guerra
 1990 – Hans D. Knipping
 1991 – Roy M. Huffington
 1992 – Donald F. Todd
 1993 – Gordon B. Oakeshott
 1994 – George P. Mitchell
 1995 – Gabriel Dengo
 1996 – Farouk El-Baz
 1997 – Raymond A. Price
 1998 – Robert S. Yeats
 1999 – Philip J. Currie
 2000 – Thomas L. Wright
 2001 – Robert Calvin Milici
 2002 – John A. Reinemund
 2003 – Rex Monahan
 2004 – Hugh Davies

Outstanding Explorer Award

The Outstanding Explorer Award is given in recognition of distinguished and outstanding achievement in exploration for petroleum or mineral resources, by members who have shown a consistent pattern of exploratory success, and with an intended emphasis on recent discovery.

2002 – Richard W. Beardsley
 2003 – William J. Barrett
 2004 – Clayton H. Riddell

Grover E. Murray Memorial Distinguished Educator Award

The Grover E. Murray Memorial Distinguished Educator Award (formerly Distinguished Educator Award) is given to recognize distinguished and outstanding contributions to geological education including, but not limited to, teaching and counseling of students at the university level. Funded by Dr. and Mrs. Grover Murray, this award can also be given for education of the public and management of educational programs.

1995 – James Lee Wilson
 1996 – Gerald M. Friedman
 L.L. Sloss
 Robert J. Weimer
 1997 – George B. Asquith
 Robert Louis Folk
 Harold G. Reading

1998 – Gerard V. Middleton
 Lloyd C. Pray
 1999 – D. L. Blackstone, Jr.
 Peter R. Vail
 Roger G. Walker
 2000 – Robert R. Berg
 John D. Haun
 Ernest A. Mancini
 2001 – John W. Harbaugh
 Clyde H. Moore
 Charles R. Stelck
 2002 – Zuhair Al-Shaieb
 William R. Muehlberger
 Paul E. Potter
 2003 – Albert V. Carozzi
 Frank G. Ethridge
 2004 – Knut O. Bjorlykke
 William E. Galloway
 Andrew D. Miall
 Edward C. Roy, Jr.

Special Awards

Special Awards are given when, in the Executive Committee's judgment, persons are deserving of recognition for some outstanding accomplishment which does not otherwise qualify for existing honors or awards.

1973 – Harrison H. "Jack" Schmitt (for lunar exploration)
 1974 – Marcel and Conrad Schlumberger (posthumously) (for development of electrical logging)
 1990 – John F. Bookout (for excellence in exploration leadership)
 1991 – Norman H. Foster and Edward A. Beaumont (for work on the *Treatise of Petroleum Geology*)
 1995 – James Wood Clarke (for English translation/publication of geological information from Soviet Union and Russia)
 1996 – Wesley G. Bruer (for adding Oregon to the list of producing states with the 1979 discovery of the 70 bcf Mist gas field)
 1996 – Norman D. Newell (for paleoecological studies of Permian Reef complex of W. Texas and organic evolution)
 1997 – Marsha A. Barber (for development of K-12 curricula and teacher training to improve public understanding of energy issues)
 1997 – Eugene M. Shoemaker (for transforming meteor impacts into an accepted geologic process with implications for terrestrial geology and evolution)
 1997 – Paul G. Benedum, Jr. (for leadership of the Claude Worthington Benedum Foundation)

1997 – Robert E. Megill (for showing petroleum geologists how to express their ideas and cope with their science through the use of petroleum economics)
 1998 – Fred A. Dix, Jr. (for dedicated leadership of the AAPG from 1973 to 1996)
 1999 – Isaac J. Crumbly (for leadership in creating a technical workforce for the nation's energy industry)
 1999 – Sarah G. Stanley (for leadership in the development of public centers for workstation training)
 2000 – Arthur R. Green (for visionary work to develop integrated geoscience and commitment to deliver these products to the geoscience community)
 2000 – William T. Smith (for outstanding achievement as a working petroleum geologist and oil industry executive)
 2001 – Kenneth Dale Owen and David L. Rice (for their efforts in restoring the 19th century New Harmony scientific community in Indiana)
 2001 – Richard Warren (for his commitment to the oil industry while facing personal affliction with fortitude)
 2001 – J. C. "Jay" Gallagher (posthumously) (for the successful evolution of the International Pavilion)
 2002 – Emmanuel Tamesis (for contributions to the education of geologists and for achievements in Philippine petroleum exploration)
 2003 – Waverly Person (for contributions to the field of earthquake studies and establishment of the National Earthquake Information Center)
 2004 – Dietrich H. Welte (for contributions in petroleum geochemistry and numerical modeling of petroleum systems)

Public Service Award

The Public Service Award is a walnut plaque bearing the recipient's name, the date, and citation. It is given to recognize contributions of members to public affairs and to encourage geologists to take a more active part in public affairs.

1971 – Dewey F. Bartlett
 1972 – William T. Pecora
 1973 – Ian Campbell
 1974 – Dean A. McGee
 1975 – Lee C. Lamar
 1976 – No Recipient
 1977 – William J. Sherry
 1978 – George T. Abell
 1979 – A. V. Jones, Jr.

1980 – G. Frederick Shepherd
 1981 – Wilson M. Laird
 1982 – Wallace W. Hagan
 Richard A. Jahns
 1983 – Daniel N. Miller, Jr.
 John B. Patton
 1984 – John Wesley Rold
 Joseph J. Simmons III
 1985 – James A. Barlow
 1986 – Robert D. Gunn
 Cliff J. Nolte
 1987 – Jack G. Elam
 Fred L. Smith, Jr.
 1988 – Charles J. Mankin
 1989 – John A. Taylor
 James W. Vanderbeek
 1990 – Cyril J. Perusek
 1991 – John David Love
 1992 – John H. Gray
 1993 – Virgil E. Barnes
 Charles W. Spencer
 1994 – William Kennon McWilliams, Jr.
 Thomas Walsh Rollins
 1995 – Norbert E. Cygan
 Gerald G. L. Henderson
 1996 – Alan L. DeGood
 Robert G. H. Reynolds
 E. Gerald Rolf
 1997 – Samuel T. Pees
 1998 – Mary Elizabeth Dowse
 David G. Rensink
 1999 – James E. Brooks
 John Robert Dewey
 Randy A. Foutch
 2000 – John Harris Marshall, Jr.
 Alvin L. Schultz
 2001 – Patty Holyfield
 H. Leighton Steward
 John S. Wold
 2002 – M. Lee Allison
 Lawrence H. Skelton
 2003 – Charles E. Brown II
 2004 – John C. Dolson

Pioneer Award

The Pioneer Award is an oak plaque bearing the recipient's name, date and place to be given, and year of membership. It is given to long-standing members who have made significant contributions to the Association but have been unrecognized.

1997 – Elliott H. Powers
 1999 – Elizabeth Anne Elliott
 2000 – Willam C. Gussow
 Frank P. Sonnenberg
 2001 – No Recipient
 2002 – Craig Ferris
 2003 – Rushdi Said
 Robert M. Sanford
 2004 – No Recipient

Distinguished Service Award

The Distinguished Service Award is a walnut plaque that is presented annually to those who have distinguished themselves in service to AAPG.

1971 – August Goldstein, Jr.
 1972 – Howard R. Gould
 1973 – John D. Haun
 Leslie Bowling
 1974 – John T. Galey
 1975 – Jules Braunstein
 Robert J. Weimer
 1976 – James R. Jackson, Jr.
 1977 – George V. Cohee
 Samuel P. Ellison, Jr.
 1978 – Robert H. Dott, Sr.
 Frank Gouin
 1979 – George Copernicus Grow, Jr.
 Thomas C. Hiestand
 John C. Maher
 1980 – John E. Galley
 John W. Shelton
 1981 – Bernold M. Hanson
 Frank E. Kottowski
 Ralph L. Miller
 Marion Orville Turner
 1982 – Donald W. Axford
 Garth W. Caylor
 William L. Fisher
 Herbert G. Davis
 Robert L. Fuchs
 Robert J. Gutru
 Richard F. Meyer
 1983 – Don R. Boyd
 Fred A. Dix, Jr.
 James O. Lewis
 D. Keith Murray
 George B. Pichel
 Donald L. Ziegler
 1984 – Dudley Harold Cardwell
 Robert H. Dott, Jr.
 John P. Lockridge
 Eric A. Rudd
 Grant Steele
 1985 – Thomas D. Barber
 Norman H. Foster
 George S. Galbraith
 James A. Hartman
 James S. MacDonald
 William R. Moran
 Anthony Reso
 1986 – Allan P. Bennison
 Louis C. Bortz
 Charles F. Dodge III
 Myron K. Horn
 Roscoe E. Shutt
 1987 – A. T. (Toby) Carleton
 James A. Gibbs
 John W. Harbaugh
 Daniel F. Merriam
 Bill St. John
 Larry D. Woodfork

1988 – James M. Forgotson, Jr.
 Gerald Manfred Friedman
 Robert R. Johnston
 Robert R. Jordan
 John R. Kerns
 Jack P. Martin
 John A. Masters
 1989 – George R. Bole
 Martha Lou Broussard
 Clemont H. Bruce
 David G. Campbell
 Lee C. Gerhard
 Scott J. Lysinger
 William H. Matthews III
 1990 – James A. Helwig
 Michael E. (Mike) Hriskevich
 Lewis S. (Stan) Pittman
 William H. Roberts III
 Edward C. Roy, Jr.
 Nahum Schneidermann
 Richard Steinmetz
 1991 – Dudley W. Bolyard
 Robbie Rice Gries
 George C. Hardin, Jr.
 Jerome J. C. Ingels
 Edward D. Pittman
 Robert M. Snider
 Don F. Tobin
 1992 – Edward A. Beaumont
 Steven H. Harris
 Christopher P. M. Heath
 Robert G. Lindblom
 James A. Peterson
 1993 – Paul A. Catacosinos
 John C. (Jack) Dunlap
 Gay L. Harmann Larré
 Hugh M. Looney
 George D. Severson
 Paul M. Strunk
 Thomas L. Wright
 1994 – Susan Longacre
 Edward McFarlan, Jr.
 James P. Rogers
 John D. Sistrunk, Jr.
 Carl J. Smith
 Arthur M. Van Tyne
 1995 – Richard S. Bishop
 Brenda K. Cunningham
 Edward K. David
 Samuel Arthur Friedman
 Susan M. Landon
 Charles R. (Chuck) Noll
 M. Ray Thomasson
 1996 – Ashton F. Embry
 George Eynon
 Jeffrey C. Greenawalt
 Gary E. Henry
 Gustavas Warfield Hobbs IV
 Peter R. Rose
 Roger M. Slatt
 1997 – Lee T. Billingsley
 Stewart Chuber
 Terry L. Hollrah
 Susan M. Morrice
 Dan L. Smith
 Anthony Tankard

- 1998 – Kevin T. Biddle
Patrick J. F. Gratto
C. Dennis Irwin, Jr.
David A. L. Jenkins
Brian D. Keith
Hans H. Krause
F. Pierce Pratt
- 1999 – Ed W. Heath
James A. Noel
Roy D. Nurmi
Douglas Gene Patchen
Edward B. Picou, Jr.
Stephen A. Sonnenberg
- 2000 – Edward D. Dolly
J. Michael Party
Robert T. Sellars, Jr.
Robert C. Shoup
Pinar Oya Yilmaz
- 2001 – Elizabeth B. Campen
Chuck Caughey
Ian Derek Collins
Robert L. Countryman
Ben D. Hare
Jean R. Lemmon
Tom Mairs
Wolfgang E. Schollnberger
- 2002 – Thomas S. Ahlbrandt
Jeffrey Aldrich
Donald D. Clarke
John R. Hogg
- 2003 – Norbert E. Cygan
Donald W. Lewis
Steven L. Veal
Paul Weimer
- 2004 – Royce P. Carr
Pete G. Gray
Jeanne E. Harris
Barry J. Katz
Lowell K. Lischer
Deborah K. Sacrey

Wallace E. Pratt Memorial Award

The Wallace E. Pratt Memorial Award was approved in 1982 to honor and reward the authors of original articles published in the AAPG Bulletin. The cash award is \$1500.

- 1982 – Roelof J. Murriss
1983 – James K. Crouch
1984 – William E. Galloway
David K. Hobda
Kinji Magara
- 1985 – Carr P. Dishroon, Jr.
Dave Russell Kingston
Philip A. Williams
- 1986 – Tod P. Harding
1987 – Tod P. Harding
1988 – Shankar Mitra
1989 – Bernard P. Tissot
Regis Pelet
Philippe Ungerer
- 1990 – Charles D. Winker
Richard T. Buffler

- 1991 – David Richard Dawson Boote
Robert Bruce Kirk
- 1992 – David Trowbridge Lawrence
Mark A. Doyle
Tom Aigner
- 1993 – Gerard J. Demaison
Bradley J. Huizinga
- 1994 – Kevin T. Biddle
Wolfgang Schlager
Kurt W. Rudolph
Terry L. Bush
- 1995 – Carlos A. Dengo
Michael C. Corey
- 1996 – Charles Kerans
F. Jerry Lucia
Rainer K. Senger
- 1997 – F. Jerry Lucia
- 1998 – Ulisses Thibes Mello
Garry D. Karner
- 1999 – John W. Robinson
Peter J. McCabe
- 2000 – Karla E. Tucker
Paul M. "Mitch" Harris
Richard C. Nolen-Hoeksema
- 2001 – Robert G. Loucks
- 2002 – John S. Bridge
Robert S. Tye
- 2003 – Roger J. Barnaby
Stephen C. Ruppel
- 2004 – Donald S. Stone

Robert H. Dott, Sr., Memorial Award

The Robert H. Dott, Sr., Memorial Award (formerly the President's Award) is to honor and reward the authors of original articles published by the Association. Through 1979, the award was \$250 in cash for the best paper published by the Association during each calendar year. Beginning in 1980, the award was expanded to recognize both the best Bulletin article and the best special publication (when appropriate), with the cash award being \$250 in each category. In 1982, the cash award was increased to \$500 in each category, and the best Bulletin article was changed to the Wallace E. Pratt Memorial Award.

- 1945 – William E. Wallace
1946 – Horace G. Richards
1947 – Robert F. Walters
1948 – L. L. Sloss
W. M. Laird
- 1949 – Sherman A. Wengerd
- 1950 – F. M. Swain
Frank Reedy, Jr.
- 1951 – Walter B. Spangler
Jahn J. Peterson
- 1952 – Raymond Siever
1953 – Donald F. Towse
1954 – Charles C. Bates

- 1955 – Paul V. Smith, Jr.
1956 – J. Law
Robert H. Dott, Jr.
- 1957 – Robert H. Parker
- 1958 – John C. Ludwick
William R. Walton
- 1959 – John M. Andrichuk
- 1960 – Robert L. Folk
- 1961 – Richard W. Fetzner
- 1962 – J. G. C. M. Fuller
- 1963 – P. G. Temple
L. J. Perry
- 1964 – James M. Forgotson, Jr.
- 1965 – Harry V. Spooner, Jr.
- 1966 – Dietrich H. Welte
- 1967 – No Recipient
- 1968 – Ghansham D. Sharma
- 1969 – Leo F. LaPorte
- 1970 – Ernst Cloos
- 1971 – Peter Lehner
- 1972 – Hollis D. Hedberg
- 1973 – Mason L. Hill
- 1974 – Rufus J. LeBlanc
- 1975 – Ronald E. Wilcox
Tod P. Harding
Donald R. "Don" Seely
- 1976 – Daniel A. Busch
- 1977 – Edgar W. Owen
- 1978 – Tod P. Harding
- 1979 – Robert M. Mitchum, Jr.
Peter R. Vail
John B. Sangree
- 1980 – *Bulletin*
Brian D. Evamy
Jean Haremboure
Peter Kamerling
William A. Knapp
Felix A. Molloy
Paul H. Rowlands
Special Publication
Peter A. Scholle
- 1981 – *Bulletin*
Michael A. Arthur
Seymour O. Schlanger
Special Publication
Peter A. Scholle
- 1982 – *Special Publication*
Robert J. Cordell
William H. Roberts, III
- 1983 – Michel T. Halbouty
- 1984 – George B. Asquith
- 1985 – Albert W. Bally
- 1986 – Gerard Demaison
Roelof J. Murriss
- 1987 – Orville Roger Berg
Donald G. Woolverton
- 1988 – James A. Peterson
- 1989 – Albert W. Bally
- 1990 – Peter A. Ziegler
- 1991 – Anthony J. Tankard
Hugh R. Balkwill
- 1992 – John C. Van Wagoner
Robert M. Mitchum, Jr.
Kirt M. Campion
Victor David Rahmanian
- 1993 – Kevin Thomas Biddle

- 1994 – Roger W. Macqueen
Dale A. Leckie
1995 – Diana Morton-Thompson
Arnold M. Woods
1996 – Leslie B. Magoon
Wallace G. Dow
1997 – Anthony Tankard
Ramiro Suárez Soruco
Herman J. A. Welsink
1998 – Martin P. A. Jackson
David G. Roberts
Sigmund Snelson
1999 – Ronald C. Surdam
2000 – Ben E. Law
Gregory F. Ulmishak
Vyacheslav I. Slavin
2001 – John F. Jordan
Richard A. Schatzinger
2002 – Marcio R. Mello
Barry J. Katz
2003 – Marlan W. Downey
William A. Morgan
Jack C. Threet
2004 – Alan R. Huffman
Glenn L. Bowers

J. C. “Cam” Sproule Memorial Award

The J. C. “Cam” Sproule Memorial Award is to honor and reward the younger authors of papers on petroleum geology. It is awarded to a member of the Association, 35 years of age or younger at the time of submittal, whose paper, published in any publication of the Association or an affiliated society, division, or section, is sufficiently outstanding and is judged to be the best contribution to petroleum geology by a person of those qualifications during that year. The cash award is \$500.

- 1974 – Aston F. Embry III
1975 – Clifton F. “Cliff” Jordan, Jr.
1976 – Paul Hoffman
1977 – W. R. Moore
1978 – Myron W. Payne
1979 – Peter A. Scholle
1980 – Richard S. Bishop
1981 – Tim T. Schowalter
1982 – Douglas W. Waples
1983 – Marc B. Edwards
1984 – Judith Totman Parrish
1985 – Martin P. A. Jackson
Steven J. Seni
1986 – Martha O. Withjack
Daryl Jill D. Pollock
1987 – Stephan Alan Graham
Loretta Ann Williams
1988 – Shankar Mitra
1989 – David W. Houseknecht
1990 – Richard John Hubbard
1991 – Donald A. Medwedeff
1992 – Paul Weimer
1993 – Bradford E. Prather

- 1994 – Bradford E. Prather
1995 – Robert D. Walters
1996 – Isabel Patricia Montañez
1997 – Laurel B. Alexander
Peter B. Flemings
1998 – Scott W. Tinker
1999 – Andrew David Hindle
2000 – Sebastián Galeazzi
2001 – Antony Reynolds
2002 – Lesli J. Wood
2003 – No recipient
2004 – Tobias H. D. Payenberg

George C. Matson Award

The George C. Matson Award is made to the speaker presenting before the annual convention of the American Association of Petroleum Geologists that paper which is judged to be best. Papers are judged by the Matson Award Committee on the basis of both scientific quality of content and excellence in presentation. The name of the Matson Award winner is engraved on a large, beautiful silver cup provided by the Matson family. The recipient also receives a plaque on which an engraved miniature replica of the silver cup is displayed. Anyone named as Matson Award winner at three annual conventions is given permanent possession of the large silver trophy.

- 1957 – John A. Masters
1958 – James W. Gwinn
1959 – Daniel A. Busch
1960 – Harold W. Owens
1961 – Horace D. Thomas
1962 – Eric A. Rudd
1963 – John Drummond Moody
1964 – William R. Muehlberger
1965 – Gordon I. Atwater
1966 – Lloyd C. Pray
1967 – Max G. Pitcher
1968 – Charles A. Biggs, Jr.
1969 – Arthur A. Meyerhoff
1970 – Douglas J. Shearman
1971 – H. O. Woodbury
1972 – H. E. Cook
R. P. Nixon
1973 – Leigh C. Price
1974 – N. A. Anstey
1975 – Leigh C. Price
1976 – Curtis C. Humphris, Jr.
1977 – Stephen G. Franks
1978 – Colin Barker
1979 – Phillip H. H. Nelson
1980 – Robert G. Todd
Peter R. Vail
1981 – Roger K. McLimans
1982 – Colin Barker
1983 – Clemont H. Bruce
1984 – Thomas J. Schull

- 1985 – Ralph S. Kerr
1986 – Lisa M. Pratt
1987 – James Francis Dolan
1988 – Jon F. Blickwede, Sr.
1989 – Ian E. Hutcheon
1990 – Martin P. A. Jackson
1991 – Michael D. Lewan
1992 – John Richard Underhill
1993 – P. Joe Hamilton
1994 – Steven G. Henry
1995 – Kenneth J. Thies
1996 – James P. DiSiena
1997 – Mark B. Allen
1998 – Joachim E. Amthor
1999 – Martha Oliver Withjack
2000 – Wafik Beydoun
2002 – Henry W. Posamentier
2003 – Mark Cooper
Richard G. Harris
2004 – Frank J. Peel

Jules Braunstein Memorial Award

The Jules Braunstein Memorial Award recognizes the author(s) of the best AAPG poster session paper presented at the annual convention. Funded by the Gulf Coast Association of Geological Societies to honor Mr. Braunstein, who recommended and arranged for the first poster session at the 1976 AAPG Annual Meeting, it is an attractive engraved walnut plaque and a cash award of \$500.

- 1984 – Dale S. Sawyer
1985 – Richardson B. Allen
Jeffrey Feehan
Jeff Gernand
Miguel Giraut
Bruce H. Nickelsen
1986 – John R. Suter
Henry R. Berryhill
1987 – Alan Ronald Daly
Janell Diane Edman
1988 – John C. Lorenz
Sharon J. Finley
David I. Norman
1989 – Alan C. Kendall
Gill M. Harwood
1990 – L. M. “Mike” Grace
Paul Edwin Potter
R. Gordon Pirie
1991 – Kate S. Weissenburger
1992 – Erik R. Lundin
1993 – Jesús Maguregui Solaguren
1994 – Rob B. Leslie
1995 – John R. Sutter
Kevin M. Bohacs
1996 – Cynthia L. Blankenship
Douglas A. Stauber
David S. Epps
Chuck Guderjahn
John D. Oldroyd

- 1997 – James C. Niemann
 1998 – Hege Mait Nordgård Bôlas
 Christian Hermanrud
 Eirik Vik
 Britta Paasch
 1999 – Eloise Doherty
 Stephen E. Laubach
 2000 – Brad E. Prather
 Joseph R. Straccia
 2002 – Martin K. Dubois
 Alan P. Byrnes
 W. Lynn Watney
 2003 – Vitor Dos Santos Abreu
 Thomas David De Brock
 Kendall Meyers
 Dag Nummedal
 Steven L. Pierce
 William A. Spears
 2004 – Alan P. Byrnes
 Martin K. Dubois
 Evan K. Franseen
 W. Lynn Watney

Journalism Award

The Journalism Award is given to any suitable person in recognition of notable journalistic achievement in communications by any medium that contributes to public understanding of geology and the technology of oil and gas exploration. The award is a walnut plaque bearing the words, "For notable journalistic achievement in communications contributing to public understanding of geology." The recipient need not be a member of the Association.

- 1972 – James A. Clark
 1973 – No Recipient
 1974 – Max B. Skelton
 1975 – William D. Smith
 1976 – No Recipient
 1977 – Philip H. Abelson
 1978 – No Recipient
 1979 – No Recipient
 1980 – Walter Sullivan
 1981 – No Recipient
 1982 – John McPhee
 1983 – Ron Redfern
 1984 – James A. Michener
 1985 – No Recipient
 1986 – David Attenborough
 Richard Gore
 1987 – John McPhee
 1988 – No Recipient
 1989 – Horst Heise
 Stephen Schwochow
 1990 – William Rintoul
 1991 – Robert T. Bakker
 1992 – Richard F. "Rick" Williamson
 Daniel Yergin
 1993 – Stephen Jay Gould
 1994 – John R. Horner

- 1995 – Wallace R. Hansen
 1996 – Lee C. Gerhard
 Linda Davis Harrar
 1997 – Donald L. Baars
 John Paul Pitts
 1998 – Walter Alvarez
 1999 – Sarah Andrews
 2000 – Walter Youngquist
 2001 – Mountain Press
 2002 – No Recipient
 2003 – Ron Redfern
 Simon Winchester
 2004 – Halfdan Carstens
 Halka Chronic

A. I. Levorsen Memorial Award

The A. I. Levorsen Memorial Award was established as the result of contributions from many individuals and societies who wished to contribute a lasting memorial to A. I. Levorsen. A plaque is given at the regional meetings of the sections of the American Association of Petroleum Geologists for the best paper, with particular emphasis on creative thinking toward new ideas in exploration. The papers are judged by committees established for each meeting and are presented through the local A. I. Levorsen Memorial Award Committee.

Only the authors presenting winning papers are recipients of the Levorsen Award. Their names are shown below in bold type, with their co-authors listed in regular type.

Eastern Section

- 1972 – **Sigmund Snelson**
 1973 – **C. F. Upshaw**
 1974 – **Douglas G. Patchen**
 Richard Smosna
 H. Buchanan
 1975 – **B. Charlotte Schreiber**
 R. Catalano
 E. Schreiber
 1976 – **G. R. Keller**
 R. K. Soderberg
 M. L. Ammerman
 A. E. Bland
 1977 – No Recipient
 1978 – **Richard Smosna**
 Douglas G. Patchen
 1979 – **Mark W. Presley**
 1980 – **Robert M. Cluff**
 1981 – **A. B. Watts**
 M. S. Steckler
 1982 – **Vance P. Wiram**
 1983 – **Howard R. Schwalb**
 1984 – **Robert A. Sedivy**
 Ralph Burwood
 Gary A. Cole
 Richard J. Drozd
 Henry I. Halpern

- 1985 – **Helen M. Sestak**
 1986 – **Karen Rose Cercone**
 1987 – **Brian D. Keith**
 1988 – **Richard Smosna**
 J. M. Conrad
 T. C. Maxwell
 1989 – **Dennis R. Swager**
 Neil F. Hurley
 1990 – **Bruce V. Sanford**
 A. C. Grant
 1991 – **James W. Castle**
 1992 – **Lisa K. Goetz**
 J. Gary Tyler
 Roger L. Macarevich
 David L. Brewster
 Jagadeesh R. Sonnad
 1993 – **Robert E. Davis**
 1994 – **Stephen F. Nowaczewski**
 1995 – **Nicholas B. Harris**
 1996 – **James A. Drahovzal**
 1997 – **Robert Marc Bustin**
 C. R. Clarkson
 1998 – **T. Joshua Stark**
 Lawrence H. Wickstrom
 1999 – **David G. Morse**
 2000 – **John R. Hogg**
 2001 – **James A. Drahovzal**
 Lawrence H. Wickstrom
 Timothy R. Carr
 John A. Rupp
 Beverly Seyler
 Scott W. White
 2002 – **Albert S. Wylie, Jr.**
 2003 – **Langhorne B. (Taury) Smith**
 Richard Nyahay

Gulf Coast Section

- 1966 – **B. J. Sloane, Jr.**
 1967 – **Hunter Yarborough, Jr.**
 1968 – **John D. Myers**
 1969 – **James K. Rogers**
 1970 – **John J. Amoruso**
 1971 – **Hunter Yarborough, Jr.**
 1972 – **Robert R. Berg**
 1973 – **James M. Coleman**
 L. D. Wright
 1974 – **Donald H. Kupfer**
 1975 – **John D. Myers**
 1976 – **Arthur R. Troell**
 J. D. Robinson
 1977 – **David K. Davies**
 William R. Almon
 1978 – **Charles T. Siemers**
 1979 – **Robert R. Berg**
 1980 – **Ernest A. Mancini**
 1981 – **Edward C. Roy, Jr.**
 Mark Eidelbach
 Nancy Trumbly
 1982 – **Thomas E. Ewing**
 S. Christopher Caran
 1983 – **John W. Cagle**
 M. Ali Khan
 1984 – **Gary L. Kinsland**
 1985 – **William E. Galloway**
 1986 – **Shirley P. Dutton**

1987 – **Shirley P. Dutton**
Robert J. Finley
Karen L. Herrington

1988 – **Ian Lerche**
John J. O'Brien

1989 – **Peter J. Hutchinson**

1990 – **Michael P. Prescott**

1991 – **Andrew J. Davidoff**

1992 – **Harry H. Roberts**

Douglas J. Cook
Mark K. Sheedlo

1993 – **Wayne Carew**

Glenn L. Krum
Paul F. Ostendorf

1994 – **John A. Rhodes**

1995 – **Mary J. Broussard**

Brian E. Lock

1996 – **David J. Hall**

1997 – **Brad A. Robison**

Roco Detomo, Jr.
R. David Garner
Arie Speksnijder
Michael J. Styzen

1998 – **Thomas E. Ewing**

1999 – **William C. Dawson**

William R. Almon

2000 – **Fuping Zhu**

Richard L. Gibson, Jr.
Joel S. Watkins
Sung H. Yuh

2001 – **Kevin B. Hill**

2002 – **Steven T. Knapp**

2003 – **William A. Ambrose**

Juan Alvarado
Mario Aranda
L. F. Brown, Jr.
J. C. Flores
Khaled Fouad
Edgar Guevara
Ulises Hernandez
David C. Jennette
Gerardo Lopez
Eduardo Macias
Shinichi Sakurai
F. Sanchez
Daniel Velez
Tim Wawrzyniec

Mid-Continent Section (Biennial Meetings)

1967 – **Philip C. Withrow**

1969 – **Thomas R. Cambridge**

1971 – **Terrence J. Donovan**

1973 – **Thomas W. Amsden**

1975 – **W. J. Ebanks, Jr.**

1977 – **D. W. Stearns**

1979 – **Donald C. Swanson**

1981 – **David W. Houseknecht**

Anthony T. Iannacchione
Mark A. Kuhn
Albert P. Matteo
David J. Steyaert
John F. Zaengle

1983 – **David Gagliardo**

1985 – **J. Reed Lyday**

1987 – **David W. Houseknecht**

Lori A. Hathon

1989 – **Edward D. Pittman**

Laura L. Wray

1991 – **William A. Miller**

Gregory L. Brown
Emily M. Hundley-Goff
Steven L. Veal

1993 – **Robert J. Weimer**

1995 – **R. Nowell Donovan**

1997 – **Jerry G. McCaskill, Jr.**

1999 – **Kenneth S. Johnson**

2001 – **Michael Bruemmer**

Monica Turner-Williams
Wan Yang

Pacific Section

1968 – **David W. Scholl**

David M. Hopkins
H. Gary Greene
Edwin E. Buffington

1969 – **Robert F. Dill**

1970 – **John W. Harbaugh**

1971 – No Recipient

1972 – **M. Keith Scribner**

Stanford Eschner

1973 – No Recipient

1974 – **John A. Minch**

1975 – **David R. Butler**

1976 – **D. L. Ziegler**

John H. Spotts

1977 – **David W. Scholl**

Alan K. Cooper

1978 – **William R. Dickinson**

Alan K. Cooper

1978 – **William R. Dickinson**

Raymond V. Ingersoll

1979 – **C. Elizabeth Koch**

1980 – **Lee F. Krystinik**

1981 – No Recipient

1982 – **Margaret A. Keller**

1983 – **Richard P. Thomas**

1984 – **John N. Thomson**

Richard G. Blake
Richard W. Boyd

1985 – **Ronald C. Crane**

1986 – **R. E. Chamberlain**

Victor M. Madrid

1987 – No Recipient

1988 – **James C. Ingle, Jr.**

1989 – **Donald D. Miller**

Thomas E. Covington
John G. McPherson

1990 – No Recipient

1991 – **John M. Lohmar**

Scott R. Morgan

1992 – **Donald A. Medwedeff**

Joseph T. C. Lin
Timothy R. Carr
John M. Stafford

1993 – **Robert A. Horton, Jr.**

1994 – **Michael D. Campbell**

Walter E. Reed

1995 – **Ronald C. Crane**

1996 – No Recipient

1997 – **Joseph A. Nahama**

Rod Nahama

1998 – **Michael F. Ponek**

A. G. Mathews

1999 – **Brian J. Casey**

2000 – **Dalton F. Lockman**

Philip Cerveny
Dana Coffield
Russell Davies
Graham Dudley
Richard Fox

Rop Knipe

Robert Krantz

Stephen Lewis

2001 – **Michael J. Richey**

2002 – **H. W. Swan**

2003 – **Morgan D. Sullivan**

Rocky Mountain Section

1966 – **Lloyd C. Pray**

Philip W. Choquette

1967 – **Frank A. Exum**

John C. Harms

1968 – No Recipient

1969 – **James E. Fassett**

1970 – No Recipient

1971 – **Richard W. Volk**

1972 – **Robert J. Weimer**

1973 – **Esther R. Jamieson Magathan**

Lyle A. Hale

1974 – **Fred Meissner**

1975 – **Donald E. Owen**

1976 – **John P. Lockridge**

1977 – **William E. Galloway**

1978 – **Randi S. Martinsen**

R. W. Tillman

1979 – **Henry W. Roehler**

1980 – **Norman H. Foster**

Edward D. Dolly

1981 – **Charles W. Spencer**

Ben E. Law

1982 – **Mark W. Longman**

Thomas G. Fertal

James S. Glennie

1983 – **James R. Steidtmann**

Linda C. McGee
Larry Middleton

1984 – **Gary C. Mitchell**

1985 – **Robbie R. Gries**

1986 – **Thomas A. Ryer**

Edmund R. Gustason

Sarah K. Odland

1987 – **Alan K. Chamberlain**

1988 – **Jerry L. Clayton**

J. David King

Joel S. Leventhal

Carlos M. Lubeck

Ted A. Daws

1989 – **Edmund R. Gustason**

1990 – **John C. Lorenz**

1991 – **Michael L. Hendricks**

1992 – **Arnold Wood**

1993 – **Eric H. Johnson**

1994 – No Recipient

1995 – **Thomas A. Ryer**

Paul B. Anderson

1996 – **Michael L. Hendricks**

1997 – **Lawrence A. McPeck**

George E. Newman
M. Ray Thomasson

- 1998 – **No Recipient**
 1999 – **Kurt N. Constenius**
 2000 – **Laird B. Thompson**
 Peter H. Hennings
 2001 – No Recipient
 2002 – **David R. Pyles**
 2003 – No Recipient

Southwest Section

- 1968 – **Donald C. Swanson**
 1969 – **Karl W. Klement**
 1970 – **Edward R. Tegland**
 1971 – **Daniel A. Busch**
 1972 – **Orville L. Bandy**
 1973 – **John J. Amoruso**
 1974 – **Ralph L. Horak**
 1975 – No Recipient
 1976 – **Robert R. Berg**
 M. H. Mitchell
 1977 – **Clayton S. Valder, Jr.**
 1978 – **Stephen E. Collings**
 1979 – **James O. Lewis**
 1980 – **David Austin Jones**
 Jack H. Kelsey
 1981 – **Naresh Kumar**
 Jack Dolph Foster
 1982 – **Craig D. Caldwell**
 John P. Hobson, Jr.
 Donald F. Toomey
 1983 – **S. J. Mazzullo**
 1984 – **Dean C. Hamilton**
 1985 – **Robert Berg**
 John T. Leethem
 1986 – **S. J. Mazzullo**
 Alastair M. Reid, II
 Sue Tomlinson Reid
 1987 – **Edwin Pinero**
 Ronald D. Kreisa
 1988 – **Terence L. Britt**
 1989 – **John L. Thoma**
 1990 – **Louis J. Mazzullo**
 1991 – **Arthur W. Cleaves**
 1992 – **J. F. "Rick" Sarg**
 1993 – **David Childers**
 Mark W. Shuster
 1994 – **Salvatore J. Mazzullo**
 1995 – **John M. Armentrout**
 1996 – **George B. Asquith**
 1997 – **Donald C. Swanson**
 1998 – **Greg A. Norman**
 1999 – **Louis J. Mazzullo**
 2000 – **Shirley P. Dutton**
 Mark D. Barton
 William A. Flanders
 Helena H. Zirczy
 2001 – **Bob A. Hardage**
 2002 – **Ron F. Broadhead**
 2003 – **Russel K. Davies**
 Jimmy D. Thomas

Distinguished Achievement Award

The Distinguished Achievement Award is presented at International Meetings to members who have distinguished

themselves through service and devotion to the science and profession of petroleum geology.

- 1992 – Eric A. Rudd
 1993 – James (Jim) Brooks
 Anibal R. Martínez
 Koenraad J. Weber
 1994 – Li Desheng
 1995 – Bernard C. Duval
 Alain Perrodon
 Roelof J. Murriss
 1996 – Roberto A. Leigh
 Claus Heinrich Graf
 1997 – John R. V. Brooks
 1998 – Hans H. Krause
 Marcio Rocha Mello
 1999 – Wolfgang Schlager
 2000 – Walter P. Grün

Special Commendation Award

The Special Commendation Award is presented at International Meetings to members who have distinguished themselves in singular and beneficial long-term service to the profession.

- 1992 – Phillip E. Playford
 1993 – Mateu Esteban
 Lucien Montadert
 Wolfgang Schlager
 1994 – Charles S. Hutchison
 Murray Johnstone
 G.A.S. Nayoan
 Khalid Ngah
 R. Prajatna Koesoemadinata
 1995 – Kenneth Jinghwa Hsü
 David A. L. Jenkins
 A. John Martin
 Peter A. Ziegler
 1996 – Maria A. Lorente
 Carlos Maria Urien
 Rafael Sanchez-Montes de Oca
 Pablo Cruz-Helu
 1997 – John George Kaldi
 Frank Horvath
 David G. Roberts
 Emiliano Mutti
 Walter P. Grün
 1998 – Paul Mosmann
 Edward G. Purdy
 Celso Fernando Lucchesi
 1999 – Richard Hardman
 Jean Dercourt
 Abdulla A. Al-Naim
 2000 – Peter Lloyd
 Dietrich Welte

Ziad Beydoun Memorial Award

The Ziad Beydoun Memorial Award (formerly the Best International Poster

Award) is given to the author(s) of the best AAPG poster session paper presented at the AAPG International Conference.

- 1991 – A. Ewan Campbell
 Jan Staffleu
 1992 – John M. Armentrout
 Lei-KuangLeu
 Jorge J. Faz
 1993 – Richard Wrigley
 1994 – Zainuddin Yusoff
 1995 – Claude Guyot
 Andre Coajou
 A. Ribeiro
 1996 – Leon J. Aden
 Robert E. Bierley
 1997 – Rémi Eschard
 Olivier Lerat
 Didier Granjeon
 Brigitte Doligez
 Guy Desaubliaux
 François Lafont
 1998 – Stanley T. Paxton
 Gary C. Stone
 Barbara L. Faulkner
 1999 – Joseph M. Finneran
 Yatindranath Keith Bally
 2000 – Richard Hillis
 2001 – No Recipient
 2002 – Philip D. Heppard
 Daniel Ebrom
 Michael Mueller
 Leon Thomsen
 Toby Harrold
 2003 – Tore M. Loseth
 Ole J. Martinsen
 Jan C. Rivenaes
 Kristian Soegaard
 John Thurmond

Gabriel Dengo Memorial Award

The Gabriel Dengo Memorial Award (formerly the Best International Paper Award) is given to the speaker presenting, before the AAPG International Conference, the paper judged to be the best, as determined by a judging committee, based on both scientific quality of content and excellence in presentation.

- 1991 – Frank J. Picha
 1992 – P. Joe Hamilton
 1993 – Chris Clayton
 1994 – John Van Wagoner
 1995 – Martin Schoell
 1996 – John O'Leary
 1997 – Peter R. Rose
 1998 – Kevin M. Bohacs
 1999 – Rob J. Knipe
 2000 – Alfredo E. Prelat
 2001 – No Recipient

2002 – Robert F. Marten
James A. Keggin
2003 – Roy C. Davies
Ron Boyd
John Howell

Teacher of the Year Award

The Teacher of the Year Award is given to a K–12 teacher for “Excellence in

the Teaching of Natural Resources in the Earth Sciences.” Nominations are submitted by AAPG Affiliated Societies and Sections, with the final selection made by a subcommittee of the AAPG Youth Education Activities Committee. Funded by the AAPG Foundation, the winning teacher’s school is given \$2,500 for the teacher’s use in the classroom, and the teacher also receives \$2,500 cash, plus an expense paid trip to the next AAPG Annual Meeting to receive the award.

1996 – Jane Justus Frazier
1997 – No Recipient
1998 – No Recipient
1999 – Herbert L. Turner
2000 – Peggy Lubchenco
2001 – John McKinney
2002 – Kevin Leineweber
2003 – Amy J. John
2004 – Michael Phillipow

AAPG Executive Committees

Term	President	Vice President	Secretary-Treasurer	Editor
1917-18	J. Elmer Thomas*	Alexander Deussen*	Maurice G. Mehl*	Charles H. Taylor*
1918-19	Alexander Deussen*	I. C. White*	William E. Wrather*	Charles H. Taylor
1919-20	I. C. White*	Irving Perrine*	Charles E. Decker*	Charles H. Taylor
1920-21	Wallace E. Pratt*	Alex W. McCoy*	Charles E. Decker	Raymond C. Moore*
1921-22	George C. Matson*	George C. Gester*	Charles E. Decker	Raymond C. Moore
1922-23	William E. Wrather*	Max W. Ball*	Charles E. Decker	Raymond C. Moore
1923-24	Max W. Ball*	Frank W. DeWolf*	Charles E. Decker	Raymond C. Moore
1924-25	James H. Gardner*	Earl G. Gaylord*	Charles E. Decker	Raymond C. Moore
1925-26	E. L. DeGolyer*	R. S. McFarland*	Charles E. Decker	Raymond C. Moore
1926-27	Alex W. McCoy*	C. R. McCollom*	Fritz L. Aurin*	John L. Rich*
1927-28	George C. Gester*	Luther H. White*	David Donoghue*	John L. Rich
1928-29	R. S. McFarland*	John E. Elliott*	David Donoghue	John L. Rich
1929-30	J. Y. Snyder*	Fred H. Kay*	A. Rodger Denison*	Frederic H. Lahee*
1930-31	Sidney Powers*	Ralph D. Reed*	Marvin Lee*	Frederic H. Lahee
1931-32	L. P. Garrett*	L. Courtney Decius*	Frank R. Clark*	Frederic H. Lahee
1932-33	Frederic H. Lahee*	Robert J. Riggs*	William B. Heroy, Sr.*	Ralph D. Reed*
1933-34	Frank R. Clark*	George Sawtelle*	William B. Heroy, Sr.	Luther C. Snider*
1934-35	William B. Heroy, Sr.*	E. B. Hopkins*	Monroe G. Cheney*	Luther C. Snider
1935-36	A. I. Levorsen*	Frank A. Morgan*	E. C. Moncrief*	Luther C. Snider
1936-37	Ralph D. Reed*	C. E. Dobbin*	Charles H. Row*	Luther C. Snider
1937-38	Herbert B. Fuqua*	Clarence E. Moody*	Ira H. Cram, Sr.*	W. A. Ver Wiebe*
1938-39	Donald C. Barton*	Harold W. Hoots*	Ira H. Cram, Sr.*	W. A. Ver Wiebe
1939-40	Henry A. Ley*	L. M. Neumann*	Edgar W. Owen*	W. A. Ver Wiebe
1940-41	Luther C. Snider*	John M. Vetter*	Edgar W. Owen	W. A. Ver Wiebe
1941-42	Edgar W. Owen*	Earl B. Noble*	E. O. Markham*	W. A. Ver Wiebe
1942-43	Fritz L. Aurin*	Paul Weaver*	E. O. Markham	W. A. Ver Wiebe
1943-44	A. Rodger Denison*	Robert W. Clark*	Robert E. Rettger*	Carey Cronelis*
1944-45	Ira H. Cram, Sr.*	Warren B. Weeks*	Robert E. Rettger	Gayle Scott*
1945-46	Monroe G. Cheney*	M. Gordon Gulley*	Edward A. Koester*	Gayle Scott
1946-47	Earl B. Noble*	D. Perry Olcott*	Edward A. Koester	Gayle Scott
1947-48	C. E. Dobbin*	George S. Buchanan*	J. V. Howell*	Clarence L. Moody*
1948-49	Paul Weaver*	Roy M. Barnes*	J. V. Howell	Clarence L. Moody
1949-50	C. W. Tomlinson*	Theodore A. Link*	Henry N. Toler*	Alfred H. Bell*
1950-51	Clarence L. Moody*	John E. Adams*	Henry N. Toler	Alfred H. Bell
1951-52	Frank A. Morgan*	Lewis G. Weeks*	Robert H. Dott, Sr.*	Kenneth K. Landes*
1952-53	Morgan J. Davis, Sr.*	John G. Bartram*	John W. Clark*	Kenneth K. Landes
1953-54	John E. Adams*	Leslie M. Clark*	Elliott H. Powers*	Armand J. Eardley*
1954-55	Edward A. Koester*	Graham B. Moody*	Elliott H. Powers	Armand J. Eardley
1955-56	G. Moses Knebel*	Horace D. Thomas*	W. A. Waldschmidt*	William C. Krumbein*
1956-57	Theodore A. Link*	Ben H. Parker*	W. A. Waldschmidt	William C. Krumbein
1957-58	Graham B. Moody*	B. Warren Beebe*	William J. Hilsseweck*	Sherman A. Wengerd*
1958-59	George S. Buchanan*	Gordon I. Atwater*	Harold T. Morley*	Sherman A. Wengerd
1959-60	Lewis G. Weeks*	Alfred H. Bell*	Harold T. Morley	Grover E. Murray*
1960-61	Ben H. Parker*	Frank B. Conselman*	George V. Cohee*	Grover E. Murray
1961-62	Mason L. Hill*	J. Ben Carsey*	George V. Cohee	Grover E. Murray
1962-63	Robert E. Rettger*	Orlo E. Childs*	Robert E. King*	Grover E. Murray
1963-64	John C. Sproule*	Thomas H. Philpott*	Robert E. King	John C. Hazard*
1964-65	Grover E. Murray*	William H. Curry, Jr.*	George C. Hardin, Jr.*	John C. Hazard
1965-66	Orlo E. Childs*	John M. Parker	George C. Hardin, Jr.	John C. Hazard
1966-67	Michel T. Halbouty	Daniel A. Busch	John D. Moody*	John C. Hazard
1967-68	J. Ben Carsey*	Eduardo J. Guzman*	John D. Moody	John D. Haun
1968-69	Frank B. Conselman*	John E. Kilkenny*	James M. Forgotson, Jr.	John D. Haun
1969-70	Kenneth H. Crandall*	Willis G. Meyer*	James M. Forgotson, Jr.	John D. Haun
Term	President	Vice President	President-Elect	Secretary
1970-71	William H. Curry, Jr.*	J. M. Browning	Sherman A. Wengerd*	James R. Jackson, Jr.
1971-72	Sherman A. Wengerd*	John A. Taylor	James E. Wilson, Jr.	Ted L. Bear

*Deceased

Term	President	Vice President	President-Elect	Secretary
1972-73	James E. Wilson, Jr.	Samuel P. Ellison, Jr.*	Daniel A. Busch	Ted L. Bear
1973-74	Daniel A. Busch	August Goldstein, Jr.	Merrill W. Haas*	Bernold M. "Bruno" Hanson*
1974-75	Merrill W. Haas*	Duncan A. McNaughton*	John E. Kilkenny*	Bernold M. "Bruno" Hanson
1975-76	John E. Kilkenny*	Frank C. Crawford*	John D. Moody*	Robey H. Clark
1976-77	John D. Moody*	Ralph L. Miller*	Edd R. Turner*	Robey H. Clark
1977-78	Edd R. Turner*	Edwin P. Kerr	Robert D. Gunn	John J. Amoruso
1978-79	Robert D. Gunn	Thomas D. Barber	John D. Haun	John J. Amoruso
1979-80	John D. Haun	D. Keith Murray	Robey H. Clark	Donald R. Boyd*
1980-81	Robey H. Clark	Eugene F. Reid	Frank W. Harrison, Jr.	Donald R. Boyd
1981-82	Frank W. Harrison, Jr.	John L. Severson*	John M. Parker	James A. Hartman
1982-83	John M. Parker	John P. Lockridge	John J. Amoruso	James A. Hartman
1983-84	John J. Amoruso	Robert D. Cowdery	Ted L. Bear	James A. Gibbs
1984-85	Ted L. Bear	Gerald M. Friedman	William L. Fisher	James A. Gibbs
1985-86	William L. Fisher	Clemon H. Bruce*	Bernold M. "Bruno" Hanson*	Richard R. Bloomer
1986-87	Bernold M. "Bruno" Hanson*	James M. Forgotson, Jr.	Lawrence W. Funkhouser	Richard R. Bloomer
1987-88	Lawrence W. Funkhouser	Jerome J. C. Ingels	Norman H. Foster*	Michael E. Hriskevich
1988-89	Norman H. Foster*	John W. Shelton	James O. Lewis, Jr.	Michael E. Hriskevich
1989-90	James O. Lewis, Jr.	John W. Harbaugh	James A. Gibbs	Arthur M. Van Tyne
1990-91	James A. Gibbs	David G. Campbell	Robert J. Weimer	Arthur M. Van Tyne
1991-92	Robert J. Weimer	Donald W. Axford	Harrison L. Townes	Richard S. Bishop
1992-93	Harrison L. Townes	Donald L. Ziegler	Don F. Tobin	Richard S. Bishop
1993-94	Don F. Tobin	Robert G. Lindblom	A. T. (Toby) Carleton	G. Warfield Hobbs
1994-95	A. T. (Toby) Carleton	Stewart Chuber	Eugene F. "Bud" Reid	G. Warfield Hobbs
1995-96	E. F. (Bud) Reid	Stephen A. Sonnenberg	Robert D. Cowdery	Robbie Gries
1996-97	Robert D. Cowdery	David A. L. Jenkins	Edward K. David	Robbie Gries
1997-98	Edward K. David	Roy D. Nurmi	Richard S. Bishop	Elizabeth B. Campen
1998-99	Richard S. Bishop	Martha Lou Broussard	M. Ray Thomasson	Elizabeth B. Campen
1999-00	M. Ray Thomasson	Carl J. Smith	Marlan W. Downey	Charles R. Noll
2000-01	Marlan W. Downey	Ronald A. Nelson	Robbie Rice Gries	Charles R. Noll
2001-02	Robbie R. Gries	Donald W. Lewis	Daniel L. Smith	Charles J. Mankin
2002-03	Dan L. Smith	Peter M. Lloyd	Stephen A. Sonnenberg	Charles J. Mankin
2003-04	Stephen A. Sonnenberg	Erik P. Mason	Patrick J. F. Gratton	Robert L. Countryman
2004-05	Patrick J. F. Gratton	Neil F. Hurley	Peter R. Rose	Robert L. Countryman

Term	Treasurer	Editor	Chairman, House of Delegates
1970-71	William B. Heroy, Jr.	John D. Haun	George R. Gibson*
1971-72	William B. Heroy, Jr.	Frank E. Kottlowski*	George C. Hardin, Jr.*
1972-73	Fred A. Dix, Jr.	Frank E. Kottlowski	Herbert G. Davis
1973-74	Edd R. Turner, Jr.*	Frank E. Kottlowski	Robert J. Gutru
1974-75	George C. Grow, Jr.*	Frank E. Kottlowski	Hugh N. Frenzel*
1975-76	George C. Grow, Jr.	John W. Shelton	Robert N. Hacker*
1976-77	George S. Galbraith*	John W. Shelton	John W. James*
1977-78	George S. Galbraith	John W. Shelton	Harry A. Miller, Jr.
1978-79	George B. Pichel	John W. Shelton	J. Miller Goodger
1979-80	George B. Pichel	Myron K. Horn	Louis C. Bortz
1980-81	John S. Runge	Myron K. Horn	H. Victor Church*
1981-82	John S. Runge	Myron K. Horn	David G. Campbell
1982-83	Norman H. Foster*	Myron K. Horn	William H. Roberts, III*
1983-84	Norman H. Foster	Richard Steinmetz	Bruce O. Tohill
1984-85	John R. Kerns	Richard Steinmetz	A. T. (Toby) Carleton
1985-86	John R. Kerns	James A. Helwig	Larry D. Woodfork
1986-87	Anthony Reso	James A. Helwig	John L. Stout
1987-88	Anthony Reso	James A. Helwig	Martha Lou Broussard
1988-89	Paul M. Strunk	James A. Helwig	George A. Hillis
1989-90	Paul M. Strunk	Susan A. Longacre	Brenda K. Cunningham
1990-91	Edward K. David	Susan A. Longacre	John C. Osmond
1991-92	Edward K. David	Susan A. Longacre	Willard R. Green
1992-93	Susan M. Landon	Susan A. Longacre	Kenneth O. Seewald
1993-94	Susan M. Landon	Kevin T. Biddle	Gerald A. Cooley*
1994-95	Lee T. Billingsley	Kevin T. Biddle	Ed W. Heath

*Deceased

Term	Treasurer	Editor	Chairman, House of Delegates
1995-96	Lee T. Billingsley	Kevin T. Biddle	Thomas Ahlbrandt
1996-97	Steven L. Veal	Kevin T. Biddle	Patrick J. F. Gratton
1997-98	Steven L. Veal	Neil F. Hurley	Daniel L. Smith
1998-99	Terry L. Hollrah	Neil F. Hurley	Tom Mairs
1999-00	Terry L. Hollrah	Neil F. Hurley	John R. Hogg
2000-01	Edward B. Picou, Jr.	Neil F. Hurley	Lowell K. Lischer
2001-02	Edward B. Picou, Jr.	John C. Lorenz	Edward D. Dolly
2002-03	Paul Weimer	John C. Lorenz	Terry L. Hollrah
2003-04	Paul Weimer	John C. Lorenz	George Eynon
2004-05	Dwight "Clint" Moore	Ernest C. Mancini	Valary L. Schulz

*Deceased

Energy Minerals Division Executive Committees

Term	President	Vice President	Secretary -Treasurer
1977-78	Loyd A. Carlson	Warren H. Westphal	Ruffin I. Rackley
1978-79	Warren H. Westphal	Frederick R. Scheerer	Ruffin I. Rackley
1979-80	Frederick R. Scheerer	John A. Pederson	Robert L. Fuchs
1980-81	John A. Pederson	Samuel A. Friedman	Robert L. Fuchs
1981-82	Robert L. Fuchs	J. Henri N. Wennekers	Norbert E. Cygan
1982-83	Ruffin I. Rackley	Charles W. Berge	Norbert E. Cygan
1983-84	Charles W. Berge	Norbert E. Cygan	Edward C. Beaumont
1984-85	Norbert E. Cygan	Philip C. Goodell	Edward C. Beaumont
1985-86	Philip C. Goodell	D. Keith Murray	O. Jay Gatten
1986-87	D. Keith Murray	Frank E. Kottlowski*	O. Jay Gatten
1987-88	Frank E. Kottlowski*	Jeremy B. Platt	Sandra C. Feldman
1988-89	Jeremy B. Platt	Donald F. Towse	Sandra C. Feldman
1989-90	Donald F. Towse	Samuel A. Friedman	Sandra C. Feldman
1990-91	Samuel A. Friedman	Douglas C. Peters	Sandra C. Feldman
1991-92	Douglas C. Peters	Carl J. Smith	Frank D. Pruett
1992-93	Carl J. Smith	John W. Gabelman	Frank D. Pruett
1993-94	John W. Gabelman	Charles G. "Chip" Groat	Frank D. Pruett
1994-95	Charles G. "Chip" Groat	Gayle H. "Scott" McColloch	Frank D. Pruett
1995-96	Gayle H. "Scott" McColloch, Jr.	Carroll F. Knutson	Peter J. McCabe
1996-97	Carroll F. Knutson	Margaret Anne Rogers	Peter J. McCabe

Term	President	Vice President	Secretary	Treasurer
1997-98	Margaret Anne Rogers	Lawrence L. Brady	Samuel A. Friedman	Carroll F. Knutson

Term	President	Vice President	President-Elect	Secretary	Treasurer
1998-99	Lawrence L. Brady	Jack C. Pashin	Thomas E. Ewing	Brian J. Cardott	James C. Hower
1999-00	Thomas E. Ewing	Andrew R. Scott	Ronald L. Grubbs	Brian J. Cardott	Michael A. Wiley
2000-01	Ronald L. Grubbs	Brian J. Cardott	Andrew R. Scott	Alexander R. Papp	Michael A. Wiley
2001-02	Andrew R. Scott	Chacko J. John	Rebecca L. Dodge	Alexander R. Papp	Michael A. Wiley
2002-03	Rebecca L. Dodge	Alexander R. Papp	Chacko J. John	Walter B. Ayers, Jr.	Michael A. Wiley
2003-04	Chacko J. John	Peter D. Warwick	Brian J. Cardott	Elizabeth B. Campen	Michael A. Wiley
2004-05	Brian J. Cardott	Elizabeth B. Campen	Peter Warwick	Samuel H. Limerick	Michael A. Wiley

*Deceased

Division of Professional Affairs Executive Committees

Term	President	Vice President	Secretary -Treasurer
1968-69	W. Dow Hamm*	Frank B. Conselman*	Willis G. Meyer
1969-70	George R. Gibson*	John T. Rouse*	Ted L. Bear
1970-71	James O. Lewis, Jr.	John D. Sistrunk, Jr.	Bernold M. Hanson*

Term	President	Vice President	Secretary -Treasurer
1971-72	James O. Lewis, Jr.	John D. Sistrunk, Jr.	Bernold M. Hanson*
1972-73	Ray C. Lewis	George C. Grow, Jr.*	Karl E. Becker
1973-74	Ray C. Lewis	George C. Grow, Jr.	Karl E. Becker
1974-75	Don E. Lawson	Karl E. Becker	Frank C. Crawford
1975-76	Don E. Lawson	Karl E. Becker	Frank C. Crawford
1976-77	Lee H. Meltzer*	Frank L. Constant	Arthur L. Trowbridge
1977-78	Lee H. Meltzer	Frank L. Constant	Arthur L. Trowbridge
1978-79	Herbert G. Davis	Richard D. House	Donald R. Hembre
1979-80	Herbert G. Davis	Richard D. House	Donald R. Hembre
1980-81	Jerome J. C. Ingels	Charles A. Brinkley	George R. Bole
1981-82	Jerome J. C. Ingels	Charles A. Brinkley	George R. Bole
1982-83	Harry A. Miller, Jr.	Dougald H. Thamer	J. Miller Goodger
1983-84	Harry A. Miller, Jr.	Dougald H. Thamer	J. Miller Goodger

Term	President	Vice President	President-Elect	Secretary	Treasurer
1984-85	Dougald R. Thamer	Scott J. Lysinger	George R. Bole	Harry Ptasynski	John T. Isberg
1985-86	George R. Bole	William R. Speer	Scott J. Lysinger	John F. Partridge	John T. Isberg
1986-87	Scott J. Lysinger	James P. Rogers	Jack P. Martin	John F. Partridge	John E. Burke
1987-88	Jack P. Martin	Robert D. Cowdery	Harrison L. Townes	Owen C. Brown	John E. Burke
1988-89	Harrison L. Townes	Harold W. Hanke	Patrick J. F. Gratton	Owen C. Brown	Cecil R. Rives
1989-90	Patrick J. F. Gratton	J. Robert Wynne	James P. Rogers	W. Paul Buckthal	Cecil R. Rives
1990-91	James P. Rogers	Steven A. Sonnenberg	Robert D. Cowdery	W. Paul Buckthal	G. L. Jack Richards
1991-92	Robert D. Cowdery	H. Grady Collier, Jr.	Charles R. Noll, Jr.	Royce P. Carr	G. L. Jack Richards
1992-93	Charles R. Noll, Jr.	Lowell K. Lischer	Peter G. Gray	Royce P. Carr	William E. Diggs
1993-94	Peter G. Gray	Terry L. Hollrah	Willard R. Green	Michael R. Canich	William E. Diggs
1994-95	Willard R. Green	Robert T. Sellars, Jr.	Terry L. Hollrah	Michael R. Canich	Thomas E. Ewing
1995-96	Terry L. Hollrah	Royce P. Carr	Peter R. Rose	Jack H. West	Thomas E. Ewing
1996-97	Peter R. Rose	Thomas E. Davis	Robert T. Sellars, Jr.	Jack H. West	Richard D. Fritz

Term	President	Vice President	President-Elect	Secretary	Treasurer	Past President
1997-98	Robert T. Sellars, Jr.	Thomas E. Ewing	Stephen A. Sonnenberg	Charles E. (Gene) Mear	Richard D. Fritz	Peter R. Rose
1998-99	Stephen A. Sonnenberg	Richard G. Green	Robert W. Sabaté	Charles E. (Gene) Mear	Debra Rutan	Robert T. Sellars, Jr.
1999-00	Robert W. Sabaté	Robert C. Shoup	G. W. "Skip" Hobbs IV	Lee T. Billingsley	Debra Rutan	Stephen A. Sonnenberg
2000-01	G. W. "Skip" Hobbs IV	J. Michael Party	Royce P. Carr	Lee T. Billingsley	Suzanne Cluff	Robert W. Sabaté
2001-02	Royce P. Carr	Deborah K. Sacrey	Tom Mairs	Brenda K. Cunningham	Suzanne Cluff	G. W. "Skip" Hobbs IV
2002-03	Tom Mairs	Lee C. Gerhard	Bob Shoup	Deborah K. Sacrey	Dan J. Tearpock	Royce P. Carr
2003-04	Robert C. Shoup	Rick L. Ericksen	J. Michael Party	Casey F. Clawson	Dan J. Tearpock	Tom Mairs
2004-05	J. Michael Party	Dan J. Tearpock	Deborah K. Sacrey	Casey F. Clawson	Jeffery C. Greenawalt	Robert C. Shoup

*Deceased

Division of Environmental Geosciences Executive Committees

Term	President	Vice President	Committee Member	Secretary-Treasurer	Editor
1992-93	Bernold M. Hanson*	Susan C. Kiser	Thomas W. Rol	William G. Murray	Richard F. Meyer

Term	President	Vice President	President-Elect	Secretary-Treasurer	Editor
1993-94	Bernold M. Hanson*	Bonnie B. Robinson	Lee C. Gerhard	James M. Waldron	Richard F. Meyer
1994-95	Lee C. Gerhard	Steven L. Veal	James L. Baer	James M. Waldron	Robert J. Menzie, Jr.
1995-96	James L. Baer	Stanley C. Grant	Larry D. Woodfork	M. Kathleen Vail	Robert J. Menzie, Jr.
1996-97	Larry P. Woodfork	Don Warner	Susan C. Kiser	M. Kathleen Vail	Robert J. Menzie, Jr.
1997-98	Susan C. Kiser	Michael "Doc" Weathers	Wm. G. Murray	Wm. E. Harrison	Robert J. Menzie, Jr.
1998-99	William G. Murray	Rima Petrossian	Steven L. Veal	Wm. E. Harrison	Stephen M. Testa
1999-00	Steven L. Veal	Peter J. Hutchinson	Michael "Doc" Weathers	Kenneth D. Vogel	Stephen M. Testa
2000-01	Michael "Doc" Weathers	Jane S. McColloch	William E. Harrison	Kenneth D. Vogel	Stephen M. Testa
2001-02	William E. Harrison	John A. Lopez	Robert J. Menzie	William Sarni	Stephen M. Testa
2002-03	Robert J. Menzie	Steven P. Tischer	Rima Petrossian	William Sarni	Gerald R. Baum
2003-04	Rima Petrossian	Kenneth G. Johnson	Kenneth D. Vogel	Mary L. Barrett	Gerald R. Baum
2004-05	Kenneth D. Vogel	Charles Chris Steincamp	Steven P. Tischer	Mary L. Barrett	Gerald R. Baum

*Deceased

Annual Convention Locations and General Chairmen

Year	City	General Chairman	Year	City	General Chairman
1916	Norman, Oklahoma	Charles H. Taylor	1961	Denver, Colorado	Laurence Brundall
1917	Tulsa, Oklahoma	F. R. Rees	1962	San Francisco, California	Gordon B. Oakeshott
1918	Oklahoma City, Oklahoma	—	1963	Houston, Texas	William A. Thomas
1919	Dallas, Texas	—	1964	Toronto, Canada	William A. Roliff
1920	Dallas, Texas	—	1965	New Orleans, Louisiana	Gordon I. Atwater
1921	Tulsa, Oklahoma	M. M. Valerius	1966	St. Louis, Missouri	Clarence E. Brehm
1922	Oklahoma City, Oklahoma	—	1967	Los Angeles, California	John E. Kilkenny
1923	Shreveport, Louisiana	Ben K. Stroud	1968	Oklahoma City, Oklahoma	Edwin P. Kerr, Jr.
1924	Houston, Texas	Alexander Deussen	1969	Dallas, Texas	William J. Hilseweck
1925	Wichita, Kansas	Marvin Lee	1970	Calgary, Canada	John M. Browning
1926	Dallas, Texas	R. B. Whitehead	1971	Houston, Texas	Edd R. Turner, Jr.
1927	Tulsa, Oklahoma	M. M. Valerius	1972	Denver, Colorado	Robert J. Weimer
1928	San Francisco, California	E. G. Gaylord	1973	Anaheim, California	Arthur R. Weller
1929	Fort Worth, Texas	J. Elmer Thomas	1974	San Antonio, Texas	M. O. Turner
1930	New Orleans, Louisiana	W. W. Grimm	1975	Dallas, Texas	Robert J. Cordell
1931	San Antonio, Texas	D. R. Semmes	1976	New Orleans, Louisiana	M. Gordon Frey
1932	Oklahoma City, Oklahoma	Irving Perrine	1977	Washington, D.C.	Richard F. Meyer
1933	Houston, Texas	Alexander Deussen	1978	Oklahoma City, Oklahoma	Lee R. Riley
1934	Dallas, Texas	Clyde M. Bennett	1979	Houston, Texas	Anthony Reso
1935	Wichita, Kansas	E. C. Moncrief	1980	Denver, Colorado	John P. Lockridge
1936	Tulsa, Oklahoma	Frank Rinker Clark	1981	San Francisco, California	Donald L. Ziegler
1937	Los Angeles, California	Frank A. Morgan	1982	Calgary, Canada	James MacDonald
1938	New Orleans, Louisiana	R. A. Steinmayer	1983	Dallas, Texas	Lewis S. (Stan) Pittman
1939	Oklahoma City, Oklahoma	R. W. Laughlin	1984	San Antonio, Texas	Edward C. Roy, Jr.
1940	Chicago, Illinois	Verner Jones	1985	New Orleans, Louisiana	George D. Severson
1941	Houston, Texas	Alexander Deussen	1986	Atlanta, Georgia	Howard R. Cramer
1942	Denver, Colorado	C. E. Dobbin	1987	Los Angeles, California	Eugene F. (Bud) Reid
1943	Fort Worth, Texas	Karl A. Myrdal	1988	Houston, Texas	Richard S. Bishop
1944	Dallas, Texas	Joseph M. Wilson	1989	San Antonio, Texas	Don F. Tobin
1945	Tulsa, Oklahoma	Business meeting only held	1990	San Francisco, California	James R. Baroffio
1946	Chicago, Illinois	Theron Wasson	1991	Dallas, Texas	Charles F. Dodge
1947	Los Angeles, California	Harold W. Hoots	1992	Calgary, Canada	George Eynon
1948	Denver, Colorado	Thomas S. Harrison	1993	New Orleans, Louisiana	Bob Sabaté
1949	St. Louis, Missouri	W. B. Wilson	1994	Denver, Colorado	Robbie R. Gries
1950	Chicago, Illinois	Lynn K. Lee	1995	Houston, Texas	James O. Lewis, Jr.
1951	St. Louis, Missouri	Walter H. Spears	1996	San Diego, California	John A. Minch
1952	Los Angeles, California	Howard C. Pyle	1997	Dallas, Texas	Tom Mairs
1953	Houston, Texas	Carleton D. Speed, Jr.	1998	Salt Lake City, Utah	M. Lee Allison
1954	St. Louis, Missouri	Graham B. Moody	1999	San Antonio, Texas	Edward C. Roy, Jr.
1955	New York, New York	G. Moses Knebel	2000	New Orleans, Louisiana	Eric P. Mason
1956	Chicago, Illinois	Morris M. Leighton	2001	Denver, Colorado	Stephen A. Sonnenberg
1957	St. Louis, Missouri	Harold T. Morley	2002	Houston, Texas	Jeffrey W. Lund
1958	Los Angeles, California	Leo R. Newfarmer	2003	Salt Lake City, Utah	Thomas C. Chidsey, Jr.
1959	Dallas, Texas	W. Dow Hamm	2004	Dallas, Texas	Terence G. O'Hare
1960	Atlantic City, New Jersey	Harry S. Ladd	2005	Calgary, Canada	John Hogg

International Conference Locations and General Chairmen

Year	City	General Chairman	Year	City	General Chairman
1984	Geneva, Switzerland	P.W.J. Wood	1997	Vienna, Austria	Walter P. Grün
1988	Nice, France	James A. Helwig	1998	Rio de Janeiro, Brazil	Joel Mendes Rennó
1991	London, England	A.J. Martin	1999	Birmingham, England	R. F. P. Hardman
1992	Sydney, Australia	Murray H. Johnstone	2000	Bali, Indonesia	Gatot K. Wiroyudo
1993	Caracas, Venezuela	Juan Chacin	2002	Cairo, Egypt	Mostafa El Ayouty
	The Hague, Netherlands	Roelof J. Murriss	2003	Barcelona, Spain	Jorge Ferrer Modolell
1994	Kuala Lumpur, Malaysia	Khalid Ngah	2004	Cancun, Mexico	Alfredo E. Guzmán
1995	Nice, France	Lucien Montadert	2005	Paris, France	Jean-Marie Masset
1996	Caracas, Venezuela	José P. Dominguez			

2004 Fifty-Year Members

List is not comprehensive. It includes only those who attained 50-year membership in 2004.

Vincent Eugene Ames
M. E. (Mo) Arnold
Robert N. Arrington
James Samuel Attaya
Chester Alvan Baird, Jr.
Walter Edwin Baker
Howard Eden Banta
James A. Barlow, Jr.
David Layton Barss
Thomas A. Bay, Jr.
Richard L. Beasley
William Alfred Beauclair
Karl E. Becker
John William Bedford
Mauro Dante Beltrandi
Gilbert Thomas Benson
Jack R. Birchum
William C. Blanks
Vernon Thomas Bolleter
Douglas Leland Bostwick
Richard Gordon Boyd
Walt V. Boyle
Thomas Edward Breedlove, Jr.
Philip Francis Brennan
Wayne Louis Brinegar
Grace Nolan Broderick
Billy Jack Brooks
Schuyler Leverich Brooks
Don E. Brown
Harold Henry Brown
Creighton A. Burk
William Purdy Burpeau, Jr.
Robert C. Busby
David Clayton Callaway
Thomas Wayne Campbell
Floyd L. Cardinal
Paul Edwin Carlton
John Craig Cartmill
Jack Cleveland Cartwright
Dwight Eugene Cassell
Robert Franklin Catchings
Don E. Chase
John Bernard Chase, Jr.
Jack Mallone Chrismon
Harry Edward Christian, Jr.
William Russell Click
J. Glenn Cole
Billy Clayton Cotner
Herman Grady Cottrell
William Burl Cox
Kenneth Francis Cummings
Bernard J. Cunningham
James Joseph Curry, Jr.
La Vern Albert Curry
William H. Curry III
M. A. Custer
Roy Berry Dannenberg

William Ross Davidson
Leland J. Davis
Michael Edward Davis
Rein De Wit
Louis Field Dellwig
Arthur Stanley Dickinson
Robert A. Doak, Jr.
Jack Ewing Dodson
Alan Chase Donaldson
Sherrill Eugene Drum
Jaye Floyd Dyer
Edward Southgate Earle
Shelby Mirle Eddington
Henry Stewart Edgell
Wendell Roy Edgell
Walter David Edwards, Jr.
Thomas Morgan Ellis, Jr.
Benjamin Marshall Elms
Robert John Emmanuel
Wayne Douglas Estill
Neil R. Eton
Paul Walker Fairchild
A. J. Field
Gerald Walter Flocks
Francis Eugene Foss
Robert E. Fox
Donald Wayland Frames
Curtis C. Franks
George Lockwood Freeland
Troy Allen Freund
Lawrence W. Funkhouser
Grant I. Gaeth
Donald Lee Garey
Donald Dean Geil
Eleanor J. Georgen
Joseph Gallagher Gibson
Leslie Wiley Giddens, Jr.
Donald C. Gifford
William H. Gilchrist
Eris Max Gilpin
David Barrett Givens
David Thomas Gleim
Alva Dexter Glidewell, Jr.
Walter Anthony Glod
Duncan Goldthwaite
William Pershing Grace
Arthur Grantz
John Milton Graves
Robert Roy Graves
Carl Edward Grieshaber
James Larkin Gulley, Jr.
Boyd Raymond Haley
Philip H. Halstead
William Weldon Hambleton
Donald Leroy Hansen
Marvin Earl Harges
Robert Bourne Harrington
Frank W. Harrison, Jr.
Donald Edward Hattin
Dale Allison Hauck
Milton Tidd Heald

Edward Wyman Heath
Richard Eugene Heffner
David Michael Heinz
Ernest Eugene Heiser
David Lloyd Henderson
William Francis Hermen
Clarence Rex Hewitt
Dale Arden Hipke
Georges Noel His
William Louis Hiss
Richard B. Hohlt
Allen Whitney Holmes, Jr.
Olin R. Holt
Roy Marshall Hopkins, Jr.
Myron K. Horn
Harley Norman Hotchkiss
Herbert James Howe
Jay Lee Howell
Curtis Carlyle Humphris, Jr.
Robert G. Jacobsen
Howard Alfred Johnson
Leonard Edward Jordan
Bill Kalil
Paul David Kaminsky
Edwin Nobert Kasper, Jr.
Harold Kentta
George L. Keppta
Charles Mark Killgore
Charles Ebert Kimmell
Jack Lynn Kirby
William Victor Knight
Irvin Kranzler
Robert F. Kraye
O. G. Lacer
John Paul Land
Carl Patterson Lathan, Jr.
Mark Latker
Warren Leroy Latshaw
Don Morgan Lawler
Russell John Lehmann
Stanley Marvin Leventhal
Leonard Lee Limes
Willard Oswald Lowe
Delbert Henry Lutz
Robert Lincoln Maby, Jr.
Robert Douglas MacDougall
Hugh Maclean Macmillan, Jr.
Russell A. Madsen
Charles John Mankin
Robert David Mapes, Jr.
John Harris Marshall, Jr.
Edward Apolinary May
Robert Eugene McCann
Wade Lowery McCormick
John James McCue
Alexander Baldwin McInnis
Holmes Parker McLish
Fred Franke Meissner
Gerald Vernon Mendenhall
Robert Neill Millard
Calvin Frampton Miller

Thomas Arthur Miller
Richard Milton Model
George W. Moore
James Hunter Moore
Jess Eugene Moore
R. McKay Moore
Clarkson Pratt Moseley
William R. Muehlberger
Forrest Hopkins Muire, Jr.
James Knox Munn
Albert Ross Murchison, Jr.
Clifford Wayne Murphey
James Howard Murphy
Lawrence Myers
Hal Huish Nelson
Paul Danheim Nelson
McInnis Scott Newby
Lewis Green Nichols
Keith Floyd Oles
Richard Keith Olsson
Joseph Omelchuck
Melvin George Oxsen
Leon Joseph Pankau
Oscar L. Paulson
Donald Dean Paynter
Ray Pennell
Frank Albert Penney
Stanley L. Perkins
Charles Claude Perry, Jr.
Dallas Odell Peterson
Jack Loyce Phillips
Ervin Clarence Philpy
T. Boone Pickens
Joseph Reginald Pierson, Jr.
Karl Henry Pilati
Phillip Moore Pitzer
Frank Wilfred Podpechan
Russell Alfred Pomeroy
Joseph Lucien Pritchett
Robert Smith Ragsdale III
Lowell Andrew Rasmussen
Harold Leslie Reade, Jr.
Edward Lewis Reid

John A. Reinemund
Bernard Wendell Reiss
John Cecil Rhodes
Otis Harold Richards
William Seaborn Richardson
James Burton Richter
Wade Clark Ridley
Sidney L. Rieb
Elliott A. Riggs
Manuel Rigo De Righi
Lee Roy Riley
Cecil R. Rives
Vincent Arthur Robinson
Perry Owen Roehl
Luther Franklin Rogers, Jr.
Roland Glover Rogers
Thomas Walsh Rollins
Charles Alexander Ross
Marvin Clayton Rushing, Jr.
Robert Marne Sanford
Robert Charles Saultz
Robin Alan Saunders
Edmund Rossiter Sawtelle
Olfert Eugene Schellhase
John Harold Scheuffler
John S. Schoelen
Edward John Schuh
Stanley Paul Schweinfurth
Peter Sciaky
Frank Rainer Shaffer
Everett Ray Sharp
John Wayne Shelton
H. Warren Shepard
Elgean Crawford Shield
John Patrick Shields
Jack William Shirley
David Whitman Shoemaker
John William Skelly
Charles Imler Slagle
Robert Earl Slingerland
John Sloat
Charles Edward Slocum
Edward Thornton Smith, Jr.

James August Smith
Richard Gordon Smith
William Frank Smylie
Robert D. Snyder
Curtis Clyde Stacy, Jr.
Edward Alex Stanley
Neil Joseph Stefanides
John Rolland Stewart
Earl Douglas Stout
John Richard Strecker
Richard Allen Struble
William Charles Talbott
Alan Higdon Talley
Ira Daniel Taylor
Clement Beal Thames, Jr.
Robert Charles Thomas
J. C. Thompson
James Arthur Thompson
Samuel Thompson III
Edward Bancroft Towne III
William Frederick Turnbull
Page Charles Twiss
Guin Erwin Upp
Horace Anthony Vallas
Jack Richard Van Lopik
James Burton Veteto
Jacques Wiley Vincent
Coy Leon Watson
James David Webb
Robert Charles Weissmann
Francis Clark Whisler
Donald David Whitaker
Doyle G. Whitaker
William Emmett White, Jr.
Robert Stewart Williams
Mark Dale Wilson
Wilbur Dean Wilson
Robert Charles Wolf
Leonard Alton Wood
Edwin Cushing Woodruff
John L. Wroble
George Nelson Yeckl
Robert Scott Young

AAPG Constitution and Bylaws

Constitution

As amended August 29, 2003.

ARTICLE I. NAME

This Association, which is incorporated under the laws of the State of Colorado, shall be called "The American Association of Petroleum Geologists."

ARTICLE II. PURPOSES

The purposes of this Association are to advance the science of geology, especially as it relates to petroleum, natural gas, other subsurface fluids, and mineral resources; to promote the technology of exploring for, finding, and producing these materials in an economically and environmentally sound manner; to foster the spirit of scientific research throughout its membership; to disseminate information relating to the geology and the associated technology of petroleum, natural gas, other subsurface fluids, and mineral resources; to inspire and maintain a high standard of professional conduct on the part of its members; to provide the public with means to recognize adequately trained and professionally responsible geologists; and to advance the professional well-being of its members.

ARTICLE III. MEMBERSHIP

SECTION 1.

The members of this Association shall consist of persons concerned with the professional applications of the geological science.

SECTION 2.

Various classifications of memberships and the qualifications thereof shall be established by the Bylaws of the Association.

ARTICLE IV. CODE OF ETHICS

SECTION 1. General Principles

(a) Geology is a profession, and the privilege of professional practice requires professional morality and professional responsibility.

(b) Honesty, integrity, loyalty, fairness, impartiality, candor, fidelity to trust, and inviolability of confidence are incumbent upon every member as professional obligations.

(c) Each member shall be guided by high standards of business ethics, personal honor, and professional conduct. The word "member" as used throughout this code includes all classes of membership.

SECTION 2. Relation of Members to the Public

(a) Members shall not make false, misleading, or unwarranted statements, representations or claims in regard to professional matters, nor shall they engage in false or deceptive advertising.

(b) Members shall not permit the publication or use of their reports or maps for any unsound or illegitimate undertakings.

(c) Members shall not give professional opinions, make reports or give legal testimony without being as thoroughly informed as reasonably required.

SECTION 3. Relation of Members to Employers and Clients

(a) Members shall disclose to prospective employers or clients the existence of any pertinent competitive or conflicting interests.

(b) Members shall not use or divulge any employer's or client's confidential information without their permission and shall avoid conflicts of interest that may arise from information gained during geological investigations.

SECTION 4. Relation of Members to One Another

(a) Members shall not falsely or maliciously attempt to injure the reputation or business of others.

(b) Members shall freely recognize the work done by others, avoid plagiarism, and avoid the acceptance of credit due others.

(c) Members shall endeavor to cooperate with others in the profession and shall encourage the ethical dissemination of geological knowledge.

SECTION 5. Duty to the Association

(a) Members of the Association shall aid in preventing the election to membership of those who are unqualified or do not meet the standards set forth in this Code of Ethics.

(b) By applying for or continuing membership in the Association each member agrees to uphold the ethical standards set forth in this Code of Ethics.

(c) Members shall not use AAPG membership to imply endorsement, recommendation, or approval by the Association of specific projects or proposals.

SECTION 6. Discipline for Violations of Standards

Members violating any standard prescribed in this Article shall be subject to discipline as provided by the Bylaws.

ARTICLE V. GOVERNMENT

The government of this Association shall be vested in six (6) elected officers, an Executive Committee, a House of Delegates, and an Advisory Council. The composition of each body, the manner of selection, the terms of office, the specific duties, responsibilities, and other matters relevant to such bodies and officers shall be as provided in the Bylaws of this Association. Any responsibility and authority of government of this Association not otherwise specified in these governing documents shall be reserved to the Executive Committee.

ARTICLE VI. DISPOSITION OF ASSETS

The American Association of Petroleum Geologists is a non-profit organization. In the event of the dissolution of the Association, the Association 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 Association shall have any right or interest in or to the property or assets of the Association.

ARTICLE VII. BYLAWS

The Bylaws, consisting of fourteen (14) articles as appended hereto, are hereby adopted and may be amended, enlarged, or reduced as provided in the Bylaws.

ARTICLE VIII. AMENDMENTS

SECTION 1. Mail, Electronic Mail or Other Suitable Ballot by Members

Amendments to this Constitution may be made by a two-thirds (2/3) majority vote of the members of this Association responding by mail, electronic mail, or other suitable ballot.

SECTION 2. Proposal of Amendments

Such amendments may be proposed by the following:

- (a) Resolution by the Executive Committee;
- (b) Resolution by a special constitutional committee appointed by the President;
- (c) Resolution of the House of Delegates;
- (d) A proposal in writing signed by any fifty (50) members of the Association.

All such resolutions or proposals must be submitted to, and action must be taken during, the annual meeting of the House of Delegates of this Association, as provided in the Bylaws and in conformance with Section 3 of this Article.

SECTION 3. Legality of Amendments

The legality of all amendments shall be determined by the Executive Committee with advice of counsel prior to consideration by the House of Delegates. In the event that a proposed amendment is revised by the House of Delegates, such revision will again be referred to the Executive Committee for determination of legality prior to balloting.

SECTION 4. Publication of Amendments

Upon affirmation of legality of the proposed amendments, the Executive Committee shall cause them to be published in the Bulletin or by other suitable means at least two (2) months prior to the annual meeting of the House of Delegates.

SECTION 5. Voting on Amendments

If any proposed amendment shall be acted upon favorably by simple majority vote of the House of Delegates, the Executive Committee shall arrange for a ballot of members by mail, electronic mail or other suitable means, within sixty (60) days after the annual meeting of the House of Delegates, and two-thirds (2/3) majority favorable vote of the ballots received within sixty (60) days of such mailing, electronic mail or other suitable distribution, shall be sufficient to amend.

Bylaws

As amended April 18, 2004

ARTICLE I. MEMBERSHIP

SECTION 1. Membership

Membership in this Association shall consist of the following classifications:

- (a) Active Members
- (b) Emeritus Members
- (c) Honorary Members
- (d) Students
- (e) Associates

SECTION 2. Definition of Term "Member"

Unless otherwise expressly provided in these Bylaws, the term "member" shall refer only to Active, Emeritus, and Honorary Members. Only members may hold office, vote in

Association affairs, sponsor membership applications, or refer to themselves as members of the Association.

SECTION 3. Active Members

Any person engaged in the practice or teaching of geology may apply for Active membership, provided the applicant holds a Bachelor's, Master's, or Doctor's Degree in geological science from a college of acceptable academic standards and, in addition, has had three (3) years of experience in the practice or teaching of geology. Credit for experience can be counted as follows: Master's Degree—one (1) year; Doctor's Degree—two (2) years. The Executive Committee may waive degree or current professional activity requirements if in its judgement an applicant has adequate professional experience and has attained standing in the profession.

SECTION 4. Emeritus Members

When Active Members in good standing in the Association, with all dues paid to date, become sixty-five (65) years of age and have been members of the Association (regardless of classification) for a total of thirty (30) years including time spent in military service, those members shall become Emeritus Members of this Association upon advising the Executive Director of the Association of their sixty-fifth (65th) birthday, and by requesting such classification of membership. Thereafter the emeriti members shall pay fifty percent (50%) of the amount of dues for Active Members and shall be entitled to all privileges and advantages of Active membership in this Association.

SECTION 5. Honorary Members

Honorary Members shall be those Active Members of this Association who shall have contributed distinguished service to the cause of petroleum geology. Such determination shall be made by the Executive Committee. A recipient of the Sidney Powers Memorial Medal Award shall become automatically an Honorary Member. Honorary Members shall not be required to pay dues, but shall have all the privileges and advantages of Active membership in the Association.

SECTION 6. Students

Any student majoring in geology or in a field of study related to or generally associated with geology at a college of acceptable academic standards may apply for Student membership. Student membership shall terminate upon termination of academic enrollment.

SECTION 7. Associates

Any person not qualified for any other class of membership who is a graduate of a college of acceptable academic standards whose employment is associated with geology, may apply for election as an Associate. The Executive Committee may waive degree requirements, if in its judgement an applicant has adequate professional experience, and has attained professional standing.

SECTION 8. Election to Membership

Every candidate for admission as an Active Member shall submit a formal application on an application form authorized by the Executive Committee, signed by the applicant, and endorsed by not less than three (3) individuals, at least two (2) of whom are members who are in good standing, stating the applicant's training and experience and such other facts as the Executive Committee shall from time to time prescribe. The Executive Committee shall be the sole judge of the eligibility of the applicant for membership and the adequacy of the applicant's qualifications. If the Executive Committee after due consideration, judges that the applicant's qualifications meet the requirements of the Constitution and

these Bylaws, the committee shall cause to be published in the Bulletin or by other suitable means, the applicant's name and the names of the sponsors. If, after sixty (60) days have elapsed since such publication, no reason is presented why the applicant should not be admitted, the applicant shall be deemed eligible to Active or Associate membership, as the case may be, and shall be notified of election to membership.

An objection to the admission to membership of an applicant must be submitted by an Active Member of the Association, must be in writing, must be received by the Executive Director at the Association's headquarters within sixty (60) days after publication of the applicant's name, must include a full statement of the circumstances on which the objection is based, and must be signed by the member raising the objection. If, in the opinion of the Executive Committee, the objection has merit, the Executive Committee shall reconsider the application.

SECTION 9. Resignation

Any member of whatever classification may resign at any time from the Association; such resignation shall be in writing and shall be accepted by the Executive Committee.

SECTION 10. Loss of Membership Rights

Any member of whatever classification who resigns, or who forfeits membership for non-payment of dues, or who is expelled for ethical reasons ceases to have any rights in the Association and ceases to incur further indebtedness to the Association.

SECTION 11. Reinstatement

Any person who has ceased to be a member of whatever classification, who has resigned, or who has forfeited membership for nonpayment of dues, unless expelled for ethical reasons, may be reinstated by unanimous vote of the Executive Committee, upon fulfillment of such requirements as may be established by the Executive Committee.

ARTICLE II. OFFICERS, EXECUTIVE DIRECTOR, AND ASSOCIATION POSITIONS

SECTION 1. Designation

The officers of this Association shall be the following:

- (a) President
- (b) Vice President
- (c) President-Elect
- (d) Secretary
- (e) Treasurer
- (f) Editor

SECTION 2. President

The President shall be the chief executive officer of this Association. The President shall be spokesman for the Association on all matters pertaining to the public; shall appoint the members of all committees within the limits prescribed in the Constitution and Bylaws; shall appoint delegates to cooperating organizations to represent the Association; and shall serve as chairman of the Executive Committee.

SECTION 3. Vice President

The Vice President shall perform the duties of the President in the absence or inability of the President to serve. The Vice President shall assume the office of President in case of a vacancy for any cause in that office; and shall perform such duties as may be assigned by the President.

SECTION 4. President-Elect

The President-Elect shall serve for one (1) year as such and in the following year shall assume the office of President. The President-Elect shall have no administrative authority except as

a member of the Executive Committee; shall become acquainted with all the details of the office of President, and generally become prepared to serve as President. The President-Elect shall be responsible for the preparation of the budget for the ensuing fiscal year for approval by the Executive Committee.

SECTION 5. Secretary

The Secretary shall be responsible for recording the actions of the Executive Committee; shall keep possession of the corporate seal and affix the same; and, subject to Executive Committee approval, shall have policy oversight of all non-technical and non-peer reviewed publications and communications. The Secretary shall perform other duties as may be directed by the Executive Committee.

SECTION 6. Treasurer

The Treasurer shall supervise the receipt of all funds and, under the direction of the Executive Committee, be responsible for all disbursements of funds of the Association; shall serve ex officio as a member of the Committee on Investments; shall give bond, the amount of which shall be determined by the Executive Committee, shall make the annual report as Treasurer, and perform such other duties as directed by the Executive Committee.

SECTION 7. Editor

The Editor shall have general supervision and final authority in soliciting, accepting, and rejecting all material on technical subjects for publication. The Editor shall have policy oversight and responsibility for editorial content of all technical and peer reviewed publications. With the approval of the Executive Committee, the Editor shall appoint, replace, and reappoint such volunteer associate editors from among the membership of the Association that may be required to accomplish the publication activities of the Association. The Editor shall submit an annual report of editorial activities to the Executive Committee.

SECTION 8. Executive Director

Executive Committee policies shall be implemented by the Executive Director who shall have charge of the Association headquarters and staff personnel as authorized by the Executive Committee. The Executive Director shall be the person to whom all official notices to the Association will be addressed; shall be responsible for the physical custody of all official documents held in repository at Association headquarters; shall be under the personal direction of the President; and will assist in the work of all committees to ensure the effectiveness of the activities of this Association. The Executive Director shall be appointed by and serve at the pleasure of the Executive Committee. The Executive Director shall be chief administrative official of the Association, shall have the authority to execute contracts on behalf of the Association, shall not be an officer of the Association, and shall not be a member of the Executive Committee.

SECTION 9. Terms of Office

(a) The President, Vice President, and President-Elect, each as such, shall serve a one (1)-year term and shall not succeed themselves in office. The Secretary and Treasurer, each as such, shall serve a two (2)-year staggered term and shall not succeed themselves in office. The Editor, as such, shall serve a three (3)-year term and shall not serve successive terms as Editor.

(b) The terms of office shall commence on July 1 following election.

SECTION 10. Election of Officers

These officers shall be elected from among the members of the Association by means of secret ballot in the following manner: not later than June 30 of each year the Advisory Council shall annually recommend two (2) or more candidates each for the offices of Vice President and President-Elect, biennially recommend two (2) or more candidates each for offices of Secretary and Treasurer, and triennially recommend two (2) or more candidates for the office of Editor to stand for election during the following fiscal year, and, if elected, to serve during the second succeeding fiscal year. The Executive Committee shall approve the candidates recommended in the order (if the Advisory Council recommends candidates in a particular order) and for the office recommended by the Advisory Council unless the Executive Committee, by the affirmative vote of not less than five of its members in each instance, alters the order in which candidates are recommended or changes the office for which a particular candidate is recommended; provided, however, that no person shall be a candidate who declines such candidacy. The Executive Committee shall annually approve two (2) candidates each for the offices of Vice President and President-Elect, biennially approve two (2) candidates each for the offices of Secretary and Treasurer and triennially approve two (2) candidates for the office of Editor. Additional nominations may be made by written petition of fifty (50) or more members in good standing received at Association headquarters not later than October 15 following. The names of candidates shall be published in the Explorer or by other suitable means ninety (90) days prior to distribution of ballots to members. The Executive Committee shall then prepare a printed, electronic, or other suitable ballot, listing the candidates for each office, and one (1) ballot shall be mailed, electronically distributed, or distributed by other suitable means to each member on or before April 1. Such ballots may consist of any combination of printed, electronic, and other suitable ballots. Marked ballots returned to and received by the Association after May 15 shall not be counted. The ballot committee shall count the ballots promptly after May 15 and report the results to the President. A plurality of all votes cast for an office is necessary for election. In case of a tie vote the Executive Committee shall cast one (1) additional deciding vote.

SECTION 11. Vacancies

A vacancy occurring in the offices of Vice President, Secretary, Treasurer, or Editor shall be filled by the Executive Committee.

A vacancy occurring in the office of President-Elect shall be filled by mail, electronic mail, or other suitable ballot by membership, through a special election called by the Executive Committee. Any such ballot may consist of any combination of mail, electronic mail, and other suitable means.

SECTION 12. Release of Election Results

If all candidates in any AAPG election for a specific office approve in writing a statement authorizing the release of the numerical results of their election, those results shall be released to each of the said candidates. Any of those candidates may subsequently disclose such election results to any person provided all candidates agree in writing. For the purposes of this Section 12, AAPG elections include, but are not limited to, elections for officers of the Association, the House of Delegates, and the Divisions, and any other election between members of any classification conducted by the Association.

SECTION 13. Limitations on Association Positions

(a) No member of any classification may hold more than one of the following offices at any one time;

- Association President;
- Association Vice President;
- Association President-Elect;
- Association Secretary;
- Association Treasurer;
- Association Editor;
- Chairman, House of Delegates;
- Chairman-Elect, House of Delegates;
- Secretary-Editor, House of Delegates;
- Immediate Past Chairman, House of Delegates

President of any Division;

Advisory Council member elected by any United States Section; and

Advisory Council member elected by any International Region.

(b) No past president of the Association may within three (3) years after expiration of his or her term of office as such hold any of the offices listed in subsection 13(a) above.

SECTION 14. Limitations on Nomination and Honors and Awards

(a) Members serving as any of the officers described in Article II of these Bylaws, as officers of the House of Delegates, or on the Advisory Council shall not be eligible to be nominated for any of the offices described in Article II of these Bylaws or selected for an honor or award by the body on or in which they serve, except for the House of Delegates' Recognition of Service Award.

(b) Candidates for the offices described in Article II of these Bylaws, for officers of the House of Delegates, for members of the AAPG Advisory Council representing United States Sections or International Regions, or for president of any Technical Division may not be selected to receive any honor or award by any of those bodies during the period of their candidacy, unless the honor or award has been announced prior to the announcement of their candidacy.

ARTICLE III. EXECUTIVE COMMITTEE

SECTION 1. Executive Authority

The executive authority of this Association shall be vested in an Executive Committee which shall serve as its Board of Directors and which shall be composed of the following members:

- (a) President
- (b) Vice President
- (c) President-Elect
- (d) Secretary
- (e) Treasurer
- (f) Editor
- (g) Chairman, House of Delegates

SECTION 2. Jurisdiction

(a) The Executive Committee shall have general executive control and management of the affairs and funds of this Association; these shall include, but not be limited to: designation of time and place of the annual meeting of the Association; supervision of election of officers and filling vacancies; determination of applicant qualifications and classifications; maintaining a headquarters and staff; accepting, creating, and administering funds for purposes provided under the Constitution and Bylaws of this Association; appointing trustees to manage such funds; establishing such fiscal policies as may be appropriate; and performing such other administrative duties as required to accomplish the objects and purposes of this Association.

(b) The Executive Committee shall also serve as an appeal authority in all matters involving grievance proceedings and professional certification of members.

(c) The Executive Committee shall have sole responsibility and authority for all matters involving the external affairs of this Association.

SECTION 3. Meetings

(a) The Executive Committee shall meet immediately before the annual meeting of the House of Delegates and at such other times during the year and at such places as designated by such Executive Committee and at the call of the President. Robert's Rules of Order shall apply at all meetings, except as the same may be inconsistent with any procedure authorized by this Section 3. A quorum shall consist of four (4) members. No proxy votes shall be allowed and no alternates may be appointed for absent members.

(b) A member of the Executive Committee may participate in a regular or special meeting by, or the meeting may be conducted through the use of, any means of communication allowed under the Colorado Revised Nonprofit Corporations Act.

(c) Any action required or permitted to be taken at a meeting of the Executive Committee may be taken without a meeting to the full extent allowed by the Colorado Revised Nonprofit Corporations Act.

(d) Five (5) days notice of regular or special meetings of the Executive Committee shall be given, which shall include the date, time, place, and, if a special meeting, purpose of the meeting. Notice may be given in any manner permitted by the Colorado Revised Nonprofit Corporations Act, and shall be effective as provided by such Act. Members of the Executive Committee may waive notice as provided under the Colorado Revised Nonprofit Corporations Act.

SECTION 4. Indemnification and Relief from Liability

The officers and directors of the Association, being the Executive Committee, shall be indemnified by the Association and shall be relieved from personal liability in all matters regarding the Association to the full extent authorized by the laws of the State of Colorado.

SECTION 5. Amendment of Certificate of Incorporation

The Executive Committee shall have the authority, by a two-thirds (2/3) majority vote, to amend the Certificate of Incorporation of the Association.

ARTICLE IV. HOUSE OF DELEGATES

SECTION 1. Jurisdiction

(a) All of the legislative function of this Association, within the scope of the Constitution and Bylaws, shall be vested in a House of Delegates.

(b) All matters involving the external affairs of the Association shall be referred to the Executive Committee of the Association.

SECTION 2. Apportionment of United States Affiliated Society Delegates and International Region Delegates

Each United States Affiliated Society shall be entitled to one (1) Delegate for up to seventy (70) members of the Association and to one (1) additional Delegate for each additional seventy (70) members, or major fraction thereof, allocated to that society for voting purposes. Each International Region shall be entitled to one (1) Delegate for up to seventy (70) members of the Association and to one (1) additional Delegate for each additional seventy (70) members, or major fraction thereof, allocated to that Region for voting purposes; provided, however, that no International Region shall have

fewer Delegates than one (1) Delegate for each Affiliated Society within the Region.

SECTION 3. Selection of United States Affiliated Society Delegates and International Region Delegates

Delegates shall be selected by popular vote of American Association of Petroleum Geologists members in elections conducted annually by United States Affiliated Societies and International Regions. Voting shall be restricted to those Association members claiming the Affiliated Society or Region as their home society or region. Association members residing in the United States and not members of any United States Affiliated Society may be assigned for the purpose of voting in elections for Delegates to the nearest United States Affiliated Society upon request to that society, without enjoying any of the membership privileges. All Association members residing outside of the United States shall be assigned to the International Regions in which they reside and shall vote in that Region in elections for Delegates unless claiming a United States Affiliated Society or another Region as their home society or region. All members of an International Region shall be entitled to vote in all elections for all Delegates from that Region. Each International Region shall elect, in an election or elections in which all members of such region shall be entitled to vote, not less than one (1) Delegate from among the Association members of each Affiliated Society within that International Region. Additional Delegates, if any, to which a Region may be entitled shall be elected as determined by the Region; provided, that all Association members assigned to an International Region shall be entitled to vote in all elections of Delegates from that International Region. Any Association member may be a candidate for Delegate from the United States Affiliated Society or International Region in which the member votes upon the member's timely written request. Delegates shall be elected for three (3)-year terms and may succeed themselves; provided, however, that any Delegate elected as an officer of the House of Delegates during the third year of the Delegate's three-year term shall automatically be a voting At-Large Member of the House of Delegates for the one year such person serves as such officer. Terms of office shall begin on July 1 following their election. Vacancies in office, or alternates for Delegates unable to attend meetings of the House of Delegates may be filled or obtained from among the candidates not receiving a sufficient number of votes for election, and in order of the total number of votes received. In the event alternates for Delegates are not available from the candidates described above, then the members of a United States Affiliated Society or an International Region who are Association members may appoint alternate Delegates for said meeting. The names of these appointed alternate Delegates must be received in writing by the Headquarters office of the Association at least fifteen (15) days prior to the meeting of the House of Delegates for which they are appointed.

SECTION 4. At-Large Members

(a) Each current member of the Executive Committee of the Association, each past-chairman of the House of Delegates, and each past-president of the Association more than three (3) years out of office, shall be a non-voting member of the House of Delegates. Any At-Large Member may also serve as a voting member if selected by the procedure provided in Article IV, Section 3 above.

(b) An officer of the House of Delegates shall be a voting At-Large Member of the House of Delegates if such officer is not otherwise a voting Delegate.

SECTION 5. Duties of United States Affiliated Society Delegates and International Region Delegates

(a) Delegates shall serve as representatives of the Association members of their United States Affiliated Society or International Region.

(b) Delegates shall familiarize themselves with the Association's Constitution and Bylaws.

(c) Delegates shall acquaint themselves with the Association's current policies and programs.

(d) Delegates shall inform the leaders of their society or region regarding the Association's program of activities, especially as it relates to cooperative participation and service, and shall keep alternates fully apprised of such matters.

(e) Delegates shall process requests from the Executive Committee for information regarding eligibility of applicants for membership in the Association.

(f) Delegates shall function as local Certification committeemen and process requests from the Board of Certification for information regarding applicants for Certification by the Association.

(g) Delegates shall actively solicit applications from eligible geologists for membership in this Association.

(h) Members of the Association before becoming candidates for the office of Delegate should recognize the obligation to attend all meetings of the House of Delegates during their term, and to perform to the best of their ability all duties imposed upon them by these Bylaws.

SECTION 6. Meetings of House of Delegates

The House of Delegates shall meet at least once each year during the annual meeting of the Association. Voting shall be only by those Delegates, or their duly qualified alternates, present and accounted for. No proxy votes shall be allowed. A quorum shall be a majority of all qualified Delegates or alternates elected. The Rules and Procedures established by the House shall be followed and, where not otherwise provided in such Rules and Procedures, Robert's Rules of Order shall apply in all meetings.

SECTION 7. Accreditation of Delegates

(a) All members of the House of Delegates shall be members in good standing of this Association.

(b) The House of Delegates shall be the sole judge of the qualifications of its members within the provisions of this Article.

SECTION 8. Officers of House of Delegates

(a) The officers of the House of Delegates shall be a Chairman, a Chairman-Elect and a Secretary/Editor. The House of Delegates shall elect the Chairman-Elect and the Secretary/Editor at its annual meeting. The term of office shall be one year commencing July 1 following election of officers. The Chairman-Elect shall assume the office of Chairman of the House of Delegates the year following his or her term of office as Chairman-Elect. At the annual meeting of the House of Delegates in which these bylaws are amended to provide for a Chairman-Elect of the House of Delegates, the House of Delegates shall elect a Chairman, whose term of office shall be one (1) year, a Chairman-Elect and a Secretary/Editor. At subsequent annual meetings of the House of Delegates, the House of Delegates shall elect a Chairman-Elect and a Secretary/Editor.

(b) Only those members of the House of Delegates having served at least one (1) year as such Delegate shall be eligible to hold any of the offices mentioned in subsection (a) above. Only Delegates may be candidates for any of the offices mentioned in subsection (a) above.

(c) The Chairman of the House of Delegates shall become ex officio a member of the Executive Committee of the Association with full voting privileges, and may not serve succeeding terms.

(d) A vacancy occurring in the office of Chairman shall be filled by the Chairman-Elect who shall, in the event such vacancy occurs prior to the annual meeting of the House of Delegates during such Chairman-Elect's term of office remain as Chairman during the succeeding year. A vacancy occurring in the office of Chairman-Elect shall be filled by the Secretary/Editor. A vacancy occurring in the office of Secretary/Editor shall be filled by appointment by the Chairman.

ARTICLE V. ADVISORY COUNCIL

SECTION 1. Jurisdiction

The advisory function of this Association shall be vested in an Advisory Council. The Council shall have no executive authority, but shall report to the Executive Committee on all matters involving ethics and discipline referred to it. The Council shall conduct long-range planning and undertake the necessary studies and investigations in connection therewith. It shall report to the Executive Committee on all matters involving constitutional review referred to it. The Council shall recommend to the Executive Committee nominations for Association officers and also honors and awards, with the exception of the Matson Award and the Jules Braunstein Memorial Award. The Council shall review the organization of the Association and the standing committee structure of the Association. It shall also undertake any special projects wherein guidance is requested by the Executive Committee.

SECTION 2. Ethics and Discipline

Five members of the Advisory Council shall serve as the Hearing Body in grievance proceedings as provided in Article XI of these Bylaws, except as otherwise provided in Article XI, Section 8, of these Bylaws.

SECTION 3. Long-Range Planning

The Advisory Council shall serve as a functioning long-range planning body to review the Association's activities and recommend to the Executive Committee appropriate changes of programs and policies.

SECTION 4. Constitution Review

The Advisory Council shall constantly review the Constitution and Bylaws and recommend to the Executive Committee appropriate amendments to meet the changing needs of this Association.

SECTION 5. Nominations

The Advisory Council shall recommend candidates for Association officers as provided in these Bylaws.

SECTION 6. Honors and Awards

The Advisory Council shall recommend recipients for all honors and awards, which may be established by the Executive Committee with the exception of the Matson Award, and the Jules Braunstein Memorial Award.

SECTION 7. Additional Duties

The Advisory Council shall be charged with reviewing relationships among the Association, Sections, and Divisions, and other organizations in order to recommend adjustments which will benefit the Association and its members.

The Advisory Council shall engage in such other special projects and shall perform such duties as the Executive Committee may, from time to time, direct.

SECTION 8. Composition and Terms of Office

Except as set forth in subparagraph (a) and (c) below, the members of the Advisory Council shall each serve for three (3)-year terms in rotation. The members of the Advisory Council shall consist of the following:

(a) The immediate past-president and the two (2) former presidents who have served most recently or their designated representatives from their respective Executive Committees and the immediate past chairman of the House of Delegates;

(b) One (1) or more members of the Association elected every third year by the Association members of each United States Section and International Region, in accordance with a schedule established by the Executive Committee to provide staggered terms and subject to the provisions of subparagraph (d) of this Section 8;

(c) The chief elected officer of each Division who shall serve ex officio during the officer's term, provided said Division has not less than seven hundred and fifty (750) Association members on the first day of the fiscal year of the Association. The chief elected officer of each Division with less than seven hundred and fifty (750) Association members shall be entitled to attend Advisory Council meetings as an Observer but will not be a member of the Advisory Council.

(d) Each United States Section and International Region with not less than seven hundred and fifty (750) Association members shall be entitled to elect one Advisory Council member for up to five thousand (5,000) Association members within such section or region. Each United States Section and International Region with less than seven hundred and fifty (750) Association members will elect for a three (3)-year term an Observer to attend Advisory Council meetings but who will not be a member of the Advisory Council except as otherwise provided in these Bylaws. If a Section or a Region which elected an Observer has seven hundred and fifty (750) or more Association members on the first day of any fiscal year of the Association, such Observer shall become a member of the Advisory Council as of that date and continue as such for the remainder of the Observer's three (3)-year term. A Section or Region shall be entitled to elect an additional Advisory Council member for each additional five thousand (5,000) members, or any fraction thereof. For the purposes of this subparagraph (d), the number of members of a section or region shall be determined as of the first day of the Association's fiscal year in which an election is to occur. Once elected, an Advisory Council member from a Section or Region shall serve for three (3) years, regardless of the number of members in such section or region during the term of that Advisory Council member.

SECTION 9. Meetings

The Advisory Council shall meet at least once each year during the annual meeting of the Association, and shall submit annual reports to the Executive Committee. Additional meetings may be held at the call of the Chairman. A quorum shall consist of a simple majority of members. Robert's Rules of Order shall apply at all meetings. No proxies shall be allowed, but alternates for absentee members may be appointed in accordance with Section 8, paragraph (a), or the procedures prescribed in Section 12 of this Article V. Mail canvasses may be conducted when necessary for interim action requested by the Executive Committee.

SECTION 10. Presiding Officer

The immediate past-president of this Association shall serve as Chairman of the Advisory Council, unless, in the event the immediate past-president cannot serve, another member of

the Council is elected by the Councillors, to serve. The Chairman shall appoint a Recording Secretary who shall keep minutes of each meeting.

SECTION 11. Observers at Advisory Council Meetings

The Advisory Council will invite the following Observers to attend its meetings:

(a) The Executive Director;

(b) The President;

(c) The Chairman of the House of Delegates;

(d) The chief elected officer of each Technical Division that has less than seven hundred and fifty (750) Association members, provided, that the Technical Division would otherwise qualify to elect a member of the Advisory Council were its membership not less than seven hundred and fifty (750) Association members; and

(e) The elected representative from any United States Section or International Region that has less than seven hundred and fifty (750) Association members, provided, that the United States Section or International Region would otherwise qualify to elect a member of the Advisory Council were its membership not less than seven hundred and fifty (750) Association members. Observers are not Advisory Council members, may not vote, and will not attend executive sessions of the Advisory Council unless authorized to do so by a vote of the Advisory Council.

SECTION 12. Alternates at Advisory Council Meetings for Absent Members

The alternate representative for an absent Advisory Council member shall be that absent member's immediate predecessor as a member of the Advisory Council, except as prescribed in Section 8, paragraph (a) of this Article. If the absent Advisory Council member represents a Region, Section, or Division and did not have a predecessor, the alternate representative shall be designated by the Region, Section, or Division President, and shall be a current member of its executive committee. If an Advisory Council member dies or resigns, then prior to the election of a successor member as prescribed in Article VI, Section 1, such former member's alternate representative shall be as otherwise provided herein for an absent member. An alternate representative may be seated at any time during an Advisory Council meeting. The alternate representative shall have the authority, including the right to vote, of the absent member.

ARTICLE VI. UNITED STATES SECTIONS, INTERNATIONAL REGIONS, AND TECHNICAL DIVISIONS

SECTION 1. United States Sections and International Regions

This Association shall establish United States Sections within the United States and International Regions outside the United States on a geographical basis to include Association members as individuals or as groups of federated affiliated geological societies, for the purpose of sponsoring technical meetings and publications and otherwise furthering the objectives of the Association within such Sections or Regions.

United States Sections shall be the:

(a) Eastern Section;

(b) Mid-Continent Section;

(c) Southwestern Section;

(d) Gulf Coast Section;

(e) Rocky Mountain Section; and

(f) Pacific Section;

as constituted on January 1, 1999.

International Regions shall be the:

(a) Canadian Region;

(b) Mexican, Central American, and South American Region;

- (c) European Region;
- (d) African Region;
- (e) Asian/Pacific Region; and
- (f) Middle Eastern Region.

The Executive Committee shall prior to August 1, 1999, assign countries to each International Region and shall designate an interim president of each International Region who shall coordinate the initial election of officers, Delegates to the House of Delegates, and a member or members of the Advisory Council (if the Region qualifies for such member or members).

Subsequent to August 1, 1999, the composition of each Section and Region may be revised, individual Sections and Regions may be dissolved, and additional Sections and Regions may be established upon application of interested individuals and upon the recommendation of the Executive Committee by vote at the annual meeting of the House of Delegates. The internal affairs of such Sections and Regions shall be administered by each Section and Region consistent with the purposes and policies of this Association.

Each Section and Region shall be entitled to elect, subject to the provisions of Article V, Section 8, subparagraph (d), of these Bylaws, from among Association members in such Section or Region, a Councillor or Councillors to serve for three (3)-year terms as elected members of the Advisory Council. Each United States Section and International Region with less than seven hundred and fifty (750) Association members shall be entitled to elect an Observer as provided in Article V, Section 8, subparagraph (d), of these Bylaws. Each such Councillor and Observer shall be elected by ballot, submitted to all Association members of the respective Section or Region, from among not less than two candidates nominated by the Section or Region governing body or by submission of a petition of nomination signed by not less than fifty (50) members of such Section or Region and delivered to the Section or Region president at least 30 days prior to start of said election. Vacancies in Councillor or Observer positions shall be filled by election to be held within 120 days of said vacancy.

SECTION 2. Technical Divisions

Technical Divisions may be established, provided that the members interested perfect an organization and make application to the Executive Committee. The Executive Committee shall submit the application with its recommendations to a vote at an annual meeting of the House of Delegates, an affirmative vote of two-thirds (2/3) of the Delegates present and voting being necessary for the establishment of such a Division. In like manner, the Association may dissolve a Division by an affirmative vote of two-thirds (2/3) of the Delegates present and voting at an annual meeting of the House of Delegates. A Technical Division may have its own officers, and it may have its own Constitution and Bylaws provided that, in the opinion of the Executive Committee, these do not conflict with the Constitution and Bylaws of the Association. The Executive Committee shall be empowered to make arrangements with the officers of the Division for the conduct of the business of the Division. Technical Divisions may affiliate with other scientific societies, with the approval of the Executive Committee.

ARTICLE VII. AFFILIATED SOCIETIES AND ASSOCIATED SOCIETIES

SECTION 1. Affiliated Societies

This Association may affiliate with duly organized groups or societies which serve the needs of members of the

Association in geographically defined areas and which by objects, aims, constitutions, bylaws, or practice are functioning in harmony with the objects and aims of the Association, subject, however, to the recommendations of the Executive Committee and to the affirmative vote of the House of Delegates. Affiliated Societies within the United States (referred to in these Bylaws as "United States Affiliated Societies") and International Regions shall be eligible to elect Delegates to the House of Delegates of the Association.

SECTION 2. Associated Societies

This Association may associate with duly organized groups or societies which serve the needs of members of the Association in typically and/or geographically defined areas and which by objects, aims, constitutions, bylaws, or practice are functioning in harmony with the objects and aims of the Association, subject, however, to the recommendations of the Executive Committee and to the affirmative vote of the House of Delegates. Associated Societies shall not be eligible to elect Delegates to the House of Delegates of the Association.

ARTICLE VIII. COMMITTEES

SECTION 1. Standing Committees

Except as provided in Article XI of these Bylaws, the Executive Committee of this Association, acting on Advisory Council recommendations, shall have the authority to establish, maintain, and dissolve standing committees of the Association. In like manner, the charge to each standing committee may be modified. A list of standing committees, the charge to each committee, and the names of the chairmen, vice-chairmen, and committee members shall be published annually. The Executive Committee shall report to the House of Delegates at its annual meeting as to the establishment or dissolution of any standing committees since the last meeting of the House of Delegates.

SECTION 2. Appointments and Tenure

Except as provided in Article XI of these Bylaws, the President shall appoint all committee chairmen, vice chairmen and other committee members and fill vacancies whenever they occur, except where otherwise specified in these Bylaws. The Executive Committee shall determine the number of members of each standing committee. The Executive Committee may remove any committee chairman, vice chairman, or other member with or without cause. The term of office of a member of a standing committee, unless otherwise provided in these Bylaws, shall be three (3) years beginning July 1. Appointments of chairmen and vice-chairmen shall be for one (1) year beginning July 1. Members of standing committees (other than chairmen and vice chairmen) shall serve in rotating terms. One-third (1/3) of the members of each standing committee (other than the chairman and vice chairman), unless otherwise provided, shall be appointed each year. No chairman of a standing committee may serve as such for more than three consecutive years. Each chairman and vice chairman of a committee shall be a member of such committee by virtue of his or her office. Committee members shall be Association members of any classification.

SECTION 3. Special Committees and Delegations

In addition to the standing committees, the President may appoint, annually, such special committees and delegations as the Executive Committee may authorize. Members of special committees shall be appointed for a term of one (1) year only and the President shall designate the chairmen.

ARTICLE IX. FOUNDATION

This Association shall establish an autonomous Foundation as a permanent entity to receive contributions, invest same, and distribute funds for the purposes and provisions as stipulated in Article II of the Declaration of Trust Agreement dated April 4, 1967; provided, that the Foundation need not retain the trust form of organization. The Executive Committee of the Association shall represent the Association's dealings with the Foundation.

ARTICLE X. CERTIFICATION

This Association may establish a technical division to conduct a program of voluntary certification of members in such professional categories as approved from time to time by the Executive Committee of the Association. Each professional category of certification will be sponsored by a technical division, which need not be the technical division conducting the certification program. Upon certification a member would be designated as certified in the pertinent professional category by such title as approved by the Executive Committee of the Association. Implementing procedures, including the issuance of appropriate certificates, shall be adopted by the technical division conducting the certification program.

ARTICLE XI. GRIEVANCE PROCEEDINGS

SECTION 1. Adoption and Publication of Implementing Procedures

The Executive Committee shall, in accordance with and subject to the provisions of these Bylaws, adopt procedures governing the investigation, hearing, and disposition of charges of misconduct in violation of Article IV of the Constitution, in accordance with the provisions of this Article XI, and shall publish such procedures in the Bulletin or by other suitable means.

SECTION 2. Investigation Procedure

Charges of misconduct in violation of Article IV of the Constitution shall first be submitted in writing to the Executive Director at Association headquarters with a statement of the evidence on which the charges are based. The Executive Director shall submit the charges to the Ethics Committee of the Association which shall be a standing committee and which shall consist of five (5) members of the technical division of the Association charged with conducting the program or programs of certification of members in professional categories and who shall be appointed by the Executive Committee of the Association for staggered three (3) year terms as members of the Ethics Committee. The provisions of Article VIII of these Bylaws shall not apply to the Ethics Committee. The Ethics Committee shall be charged with the investigation and prosecution of such charges, and may conduct such investigation as the Ethics Committee deems necessary to reasonably and thoroughly investigate the charges. If in the judgment of the Ethics Committee and after consultation with AAPG legal counsel, the evidence supports further action by the Association on the charges, the committee shall prepare and file with the Advisory Council at Association headquarters formal charges against the accused member. Upon such filing the Chairman of the Advisory Council shall appoint a Hearing Body from the Advisory Council members, in accordance with Section 3 of this Article XI, and the Ethics Committee shall appoint one of its members as the prosecutor. Notwithstanding anything to the contrary contained in these Bylaws and except for proceedings pursuant to the provisions of Section 8 of this Article, disposition of the charges on any terms or conditions agreed to by all of the Ethics Committee, the Chairman of the Advisory Council, and

the accused member, and approved by the Executive Committee of the Association (regardless of whether such terms or conditions are listed in phrases (a), (b), (c), or (d) of Section 4 of this Article XI) may be made at any time prior to the conclusion of the proceedings provided for in this Article XI and upon such disposition all proceedings under this Article XI concerning the charges of misconduct against the accused member shall cease. The existence of allegations against any member, and the basis and content thereof, is confidential.

SECTION 3. Hearing Procedure

The Hearing Body shall consist of five (5) members of the Advisory Council, including at least one (1) past president of the Association, all of whom shall be appointed by the Chairman of the Advisory Council. Each of the prosecutor and the accused member may challenge and have removed not more than two (2) members of the Hearing Body and such removed members shall be replaced with other members of the Advisory Council selected by the Chairman of the Advisory Council. The Hearing Body shall set the time, date, and place for a hearing on the charges and the accused member shall be given notice in writing of the time, date, and place of the hearing, mailed to the member by registered mail to the member's last-known mailing address not less than thirty (30) days prior to such date, accompanied by a copy of the formal charges and a copy of this Article. The accused member may appear with legal counsel before the Hearing Body, hear any witnesses called in support of the charges and, at the member's option, cross-examine the same, present witnesses in the member's behalf, and submit oral or written statements in the member's behalf. The prosecutor may likewise be represented by legal counsel, present witnesses, and cross-examine the accused member's witnesses. The Hearing Body may consult at any time with legal counsel of its choosing at all stages of the proceedings in which it is involved. At the accused member's option, the accused member may, by registered letter addressed to the Chairman of the Advisory Council at Association headquarters, postmarked not less than ten (10) days prior to the date of the hearing, waive personal appearance and request the Hearing Body to adjudge the matter on the basis of a written statement of the member's defense accompanying such letter.

SECTION 4. Decision of Hearing Body

After the conclusion of the hearing or study of the written defense submitted in lieu thereof, the Hearing Body shall consider and vote to sustain or dismiss the charges. If, by not less than a four-fifths (4/5) vote of all of the members of the Hearing Body, the Hearing Body shall declare sustained the charges against the accused member, then the Hearing Body may impose the following discipline:

- (a) issue a private or public admonition of the member; or
- (b) suspend the member for a stated period of time; or
- (c) allow the member to resign; or
- (d) expel the member.

Failure of the accused member to appear, or to submit a waiver letter and a written defense, as provided in this section, shall not prevent the Hearing Body from rendering final judgement. Notice of the decision of the Hearing Body shall be sent by registered mail to the accused member at the member's last-known post office mailing address.

SECTION 5. Appeals Procedure

Action taken by the Hearing Body may be appealed to the Executive Committee of the Association by either the accused member or the Ethics Committee within thirty (30) days of

the date notice of the decision of the Hearing Body is sent to the accused member. The Executive Committee shall have final authority whether to sustain or order a rehearing on the decision of the Hearing Body.

SECTION 6. Resignation

Resignation by the accused member from the Association, at any stage in the foregoing prescribed proceedings, shall automatically terminate the proceedings. Following resignation, the accused person so resigning shall not be eligible for reinstatement to membership unless by unanimous vote of all members of the Executive Committee of the Association.

SECTION 7. Expulsion

Persons expelled from the Association under these proceedings shall thenceforth be ineligible for reinstatement to membership unless by unanimous vote of all members of the Executive Committee of the Association.

SECTION 8. Alternative Procedure

Any member who pleads guilty to a misdemeanor involving moral turpitude or to any felony or who admits to the violation of any governmental statute, regulation, rule, or code of ethics relating to the practice of geology may be expelled from membership in the Association upon a majority vote of all members of the Executive Committee of the Association.

Any member who does not plead guilty to but is convicted of a misdemeanor involving moral turpitude or of any felony or who is found by a governmental body to have violated any governmental statute, regulation, rule, or code of ethics relating to the practice of geology may be suspended from membership in the Association upon a majority vote of all members of the Executive Committee of the Association. If such a conviction or finding is reversed on appeal, the member shall be reinstated to membership. If such a conviction or finding is not appealed or is upheld on final appeal, the member may be expelled from membership in the Association upon a majority vote of all members of the Executive Committee of the Association. If such a conviction or finding is the subject of an executive pardon, the member shall be reinstated to membership upon a majority vote of all members of the Executive Committee of the Association.

In the event that expulsion of a member so pleading guilty or so admitting violation or suspension or expulsion of a member so convicted or so found is proposed, a date shall be set for a hearing thereon and for consideration by the Executive Committee of such proposed suspension or expulsion. The member shall be given notice in writing of the date and place for the hearing, mailed to the member by registered mail to the member's last-known mailing address not less than thirty (30) days before said date, accompanied by a copy of a court document or other official document indicating such plea of guilty or admission of violation or a copy of the judgment or other document indicating such conviction or finding, a copy of any applicable order of an appellate court or other appellate body, and a copy of this section. At the hearing the member may appear before the Executive Committee with legal counsel, may submit oral or written statements to the Executive Committee, and may present witnesses to testify on the member's behalf before the Executive Committee. The Executive Committee shall have the right to cross-examine the member and any witnesses presented by the member on the member's behalf. At the member's option, the member may, by registered letter addressed to the President of the Association at Association headquarters, postmarked not less than ten (10) days prior

to the date of the hearing, request the Executive Committee to consider the matter on the basis of a written statement by the member accompanying such a letter without the personal appearance of the member before the Executive Committee. The Executive Committee, if such oral or written statements or testimony of witnesses are presented, shall consider said statements and testimony prior to voting on the suspension or expulsion of the member.

A member expelled from the Association under the procedure stated above shall be ineligible for reinstatement to membership unless reinstated by a unanimous vote of all members of the Executive Committee of the Association.

SECTION 9. Authority

Subject to the provisions of these Bylaws, the Executive Committee shall have primary authority over matters of professional conduct and discipline. No member, committee, Division, Section, or Region of the Association shall initiate or conduct any investigation or hearing or impose any sanction concerning the professional conduct of an Association member or applicant for Association membership, except as expressly permitted by these Bylaws. Procedures adopted by the Executive Committee as authorized by Section 1 of this Article XI shall be in accordance with, and subject to, the provisions of these Bylaws.

SECTION 10. Definition

The term "member" as used in this Article XI shall refer to a member of the Association of any classification.

SECTION 11. Publication of Grievance Matters

The Executive Director of the Association shall cause to be published annually in the Bulletin or by other suitable means a summary of all grievance proceedings initiated, pending, or considered each year. The summary shall include, but not be limited to, the general type of complaint, the level of grievance procedure attained, and status or disposition of the case. Names of parties shall not be published, except that the name of any member expelled from the Association shall be published in said summary.

ARTICLE XII. MEETINGS

The Association shall hold at least one (1) stated meeting of its members each year, at a time and place designated by the Executive Committee.

ARTICLE XIII. DUES

SECTION 1. Fiscal Year

The fiscal year of the Association shall begin on July 1 and end on June 30 of the following calendar year.

SECTION 2. Dues Benefit

The payment of annual dues for any fiscal year entitles the Active Member, Emeritus Member, Student, or Associate to receive without further charge a copy of the Bulletin and the Explorer of the Association for that year.

SECTION 3. Dues Schedule and Billing

The annual dues of members shall be payable in advance of the fiscal year in accordance with a schedule to be established annually by the Executive Committee, provided that the dues shall not exceed the sums set forth below:

- Active—Up to \$125
- Emeritus—Up to \$62.50
- Honorary—None
- Student—Up to \$10
- Associate—Up to \$125

The above schedule shall be subject to the following provisos:

- (a) That dues are not refundable;
- (b) That members having previously obtained exemption under the former Life Member category shall not be required to pay dues;
- (c) That students who join while undergraduates will be reclassified as Associates upon termination of academic enrollment or upon commencement of full-time professional employment or practice.
- (d) An Associate who has completed the degree requirements, but not the experience requirements, for Active membership shall pay one-half of the regular Active membership dues for not more than four (4) years while not having satisfied such experience requirements and shall pay regular Associate dues thereafter while an Associate.
- (e) That the annual change in dues for Active Members cannot exceed twenty percent (20%), and that this annual change is noncumulative; and
- (f) That a penalty to be established annually by the Executive Committee will be levied for each quarter year of delinquency beginning on July 1.

A statement shall be mailed to each Active Member, Emeritus Member, Honorary Member, Student, and Associate before July 1 of each year, stating the amount of annual dues.

SECTION 4. Arrears and Suspension

Any member of whatever classification whose dues are in arrears for more than sixty (60) days and for less than one (1) year shall be suspended from membership in the Association and shall not be entitled to the privileges of membership.

SECTION 5. Forfeit of Membership

Any member of whatever classification who is more than one (1) year in arrears in payment of dues shall forfeit membership in the Association and the member's name shall be removed from membership rolls.

ARTICLE XIV. AMENDMENTS

SECTION 1. Proposal of Amendments

Amendments to these Bylaws may be proposed by the following means:

- (a) Resolution by the Executive Committee;
- (b) Resolution of the House of Delegates;
- (c) Written proposal signed by fifty (50) members of the Association.
- (d) Resolution by a majority vote of the Officers of the House of Delegates and the Chairman of the Constitution and Bylaws Committee of the House of Delegates.

SECTION 2. Amending Procedure

(a) Upon receipt of such proposals, they shall be referred to the Chairman of the House of Delegates, who shall then

forward them to (a) the Executive Committee and (b) to the Constitution and Bylaws Committee of the House of Delegates for review and a report to be presented to the members of the House of Delegates, in accordance with its Rules & Procedures.

(b) Amendments proposed by resolution of the Executive Committee, by resolution of a majority vote of the Officers of the House of Delegates and the Chairman of the Constitution and Bylaws Committee of the House of Delegates, or by fifty (50) members of the Association shall within thirty (30) days of their receipt by the Chairman of the House of Delegates be distributed to the Executive Committee, the members of the House of Delegates, the Constitution and Bylaws committee of the House of Delegates, the Advisory Council, and any committee or member(s) of the Association designated by the Executive Committee to receive them.

(c) Each of the bodies and members receiving proposed amendments pursuant to Section 2, paragraph (a) above, may submit comments to the Constitution and Bylaws committee of the House of Delegates not less than thirty (30) days prior to the annual meeting of the House of Delegates at which the proposed amendment is to be considered. The Chairman of the House of Delegates shall cause all such comments to be sent with the proposed amendment to the members of the House of Delegates prior to such annual meeting.

(d) Each of the bodies and members to receive proposed amendments under Section 2, paragraph (b) above, may submit comments concerning amendments proposed by resolution of the House of Delegates to the Constitution and Bylaws committee of the House of Delegates not later than the next October 31st following the adoption of the resolution. The Chairman of the House of Delegates shall cause all such comments to be sent with the proposed amendment to the members of the House of Delegates as provided in its Rules and Procedures.

SECTION 3. Publication of Amendments

The Executive Committee shall cause proposed amendments to be published in the Bulletin or by other suitable means at least ninety (90) days prior to the annual meeting of the House of Delegates.

SECTION 4. Consideration of Amendments

Proposed amendments shall be considered at the annual meeting of the House of Delegates and shall be passed upon receipt of a two-thirds (2/3) affirmative vote of the Delegates present and voting.

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