Board on Earth Sciences Aims at National Goals

Message to the Solid-Earth Science Community

The Board on Earth Sciences (BES), formerly the Geological Sciences Board, is an operating arm of the National Research Council (National Academy of Sciences, National Academy of Engineering, and the Institute of Medicine). The BES does not fund research. It is charged with the oversight of the solid-earth sciences, and attempts to assure their health and capacity to address national and societal needs. The Board meets twice annually. Members are drawn from diverse branches of the field; each serves a three-year term on the Board. To fulfill its responsibilities, the BES and its several committees review ongoing scientific and public activities in the earth sciences, identify promising research opportunities, and attempt to establish scientific policy bearing on larger earth science programs in and on behalf of the United States.

Committees of the BES report to the Board. Some of these have specific, well-defined charges—e.g., U.S. National Committees that interface with their respective international scientific unions. Others, such as the U.S. Geodynamics Committee, have broad scientific responsibilities and continue as needed. Still others are more narrowly focused, ad hoc groups, which cease to exist after completion of their target studies. All such committees are undergoing scrutiny at the present time in an effort to streamline and enhance efficiency, to maintain representative coverage, and to maximize effectiveness of the Board.

The BES is now beginning its fourth year of operation, the previous three under the chairmanship of William R. Dickinson. Major accomplishments thus far include the 1983 National Research Council report Opportunities for Research in the Geological Sciences, which identified several new and exciting areas for scientific investigation (global seismic network plus portable digital seismic array; deep crustal reflection profiling; global positioning satellite; continental deep drilling; and physics and chemistry of geologic materials). All are interconnected and related to the continental lithosphere program. Studies in progress involve cross sections of American plate margins, magnetic and gravity maps of the nation and of North America, and continent-ocean geologic transects.

Scientific briefing sessions for key U.S. congressional leaders, federal funding agencies, and the Office of Science and Technology Policy are now being planned. Better coordination between the Board and American solid-earth science professional organizations is also being attempted. The BES is intensifying its efforts to enhance the vigor and capabilities of the solid-earth sciences in order to better serve the nation. However, the Board can only be effective if it has the recognition and support of the earth science community. This note calls your attention to the BES mission and urges you to contribute to its deliberations through the various professional societies and/or as individual scientists. We need the advice and backing of the entire solid-earth science community if we are to work productively for common goals. Your suggestions and topics for consideration by the Board on Earth Sciences should be sent anytime to:

W. G. Ernst, Chairman
Board on Earth Sciences
National Research Council
2101 Constitution Avenue, N.W.
Washington, DC 20418

Note: Ernst is also vice-president of the Geological Society of America, and most of the members of the Board on Earth Sciences are Fellows or Members of GSA.

Board on Earth Sciences
(final year of service in parentheses)

Don L. Anderson (1986)
Seismological Laboratory
California Institute of Technology

Paul A. Bailly (1986)
Lakewood, Colorado

Robin Brett (1987)
Branch of Resource Analysis
U.S. Geological Survey

Randolph W. Bromery (1987)
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University of Massachusetts

Lawrence M. Cathles (1987)
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Department of Earth and Space Sciences
University of California, Los Angeles

Kate H. Hadley (1987)
Exxon Company, U.S.A.

Michel T. Habibouy (1985)
Michel T. Habibouy Energy Company

Melvin J. Hill (1985)
Gulf Oil Corporation

(continued on page 42)
Board on Earth Sciences  
(final year of service in parentheses)

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University of Arizona

Bulletin Managing Editor Elected to AESE Board

Jean Thylault, Managing Editor of the GSA Bulletin, has been elected to the Board of Directors of the Association of Earth Science Editors (AESE). The 300-member association has representatives from almost all of the major geological journals, earth science publishers, and state and federal geological surveys. It also has formed liaisons with other editorial groups in the biological sciences and with international editorial associations. The main object of these associations is to improve editing and publishing of scientific material. Thylault gives lectures supplemented by slides and graphic materials which demonstrate ways to improve publication illustrations. She is also writing a publication graphics manual in conjunction with Lev Ropes, one of the authors of the well-known AAPG slides preparation manual. She is currently teaching English writing at the University of Colorado Division of Continuing Education.

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GSA News & Information  
March 1985

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Workshop

CONTINENTAL SCIENTIFIC DRILLING PROGRAM

A workshop will be held on April 29–May 1, 1985 (location to be announced at a later date) to develop a plan for drilling and research to pursue basic studies of the continental lithosphere. The National Science Foundation has indicated its intention to accept a proposal by DOSECC, Inc., a non-profit corporation representing eighteen major universities, to plan and subsequently manage NSF's activities in the area of continental scientific drilling. These activities would be carried out under the interagency accord on continental scientific drilling signed in April 1984 by NSF, USGS, and DOE, and in accordance with a recent congressional resolution supporting such activities (Section 323 of Public Law 98-473). Although there is as of now no assurance that funding for major drilling projects will be obtained, it is necessary to begin the planning process as early as possible. DOSECC, Inc. expects to convene this workshop. The workshop will provide an opportunity to those who have an interest in continental scientific drilling, are contemplating plans for experiments or are actively developing scientific drilling projects, to present their plans and ideas for possible inclusion in a scientific program plan to be considered for funding under the NSF activity in CSD. (see EOS, 65 No. 43, p. 771, 10/23/84). The ongoing and planned programs will also be presented. To provide the scientifically strongest plan possible, it is important that it represents a cross-section of the interests of the involved scientific community and takes into account efforts of other agencies under the Interagency Accord.

The workshop will provide a forum for full and open discussion to all those who are interested. The workshop program is open to representatives of groups or consortium who are developing plans for research requiring continental drilling in order to help answer basic questions on the structure and evolution of the continental crust. Groups of scientists who convene to prepare the arguments for a given experiment should select a spokesman who will present the scientific rationale for the experiment, including the reasons why drilling is essential to the solution of the problem presented. The more supporting geological and geophysical data that can be used to identify the drilling target the better. It will also be important to present a plan which includes pre-drilling site surveying, an approximate design for the hole or holes to be drilled and the logging and post-drilling analysis of core and other data. The emphasis must be on the expected scientific results, however. Researchers with plans to make use of existing or planned drill holes available from industry, government, or other sources are also invited to present the case for their scientific objectives.

Following the Workshop, the Scientific Advisory Committee of DOSECC will draw up a Science Plan for presentation to the National Science Foundation and may make recommendations to the other agencies if requested to do so. The experiments should, in general, be conducted by a group of principal investigators who will take responsibility for site surveys, scientific oversight of the drilling, analysis of core and logs and publication of the results. As funds become available, it is expected that formal proposals for experiments included in the initial years of the program plan will be requested.

Those wishing to attend the Workshop on Continental Scientific Drilling should write to Dr. Frank Stehli, Chairman of the Scientific Advisory Committee, School of Geology and Geophysics, University of Oklahoma, Norman, Oklahoma 73019. An abstract of approximately two pages should be submitted by March 30, 1985 to ensure participation in the program.
CENTENNIAL NEWS

By Allison R. (Pete) Palmer

More Canadian DNAG Volumes Organized

Two more of the volumes of *The Geology of North America* that are being produced by the Geological Survey of Canada under the general editorship of J. O. Wheeler are now organized; outlines for them are given below. Including these, 19 of the book outlines for this synthesis series have now been published. Well over 800 dedicated authors are at work completing their chapter texts for these volumes, which will begin to appear in 1985.

The Cordilleran Orogen: Canada

A. Introduction—H. Gabrielse, C. J. Yorath
B. Tectonic Framework
   1. Plate-Tectonic Framework—H. Gabrielse, C. J. Yorath
   2. Tectonic Assemblages—H. Gabrielse, C. J. Yorath
   5. Paleomagnetic Signatures—E. Irving, J. Wynne
C. Crustal Geophysics—J. F. Sweeney, R. Currie, R. M. Clowes
D. Basement Rocks—R. R. Parrish
E. Mid-Proterozoic Assemblages—J. D. Aitken
F. Upper Proterozoic Assemblages—H. Gabrielse
G. Lower Cambrian to Middle Devonian Assemblages
   1. Summary—H. Gabrielse
   2. Ancestral North America
      a. Cambrian—W. H. Fritz
      b. Ordovician and Silurian—B. S. Norford, M. P. Cecile
      c. Devonian—A.E.H. Pedder, D. Morrow
   3. Allochthonous Terranes—R. B. Campbell, C. J. Dodds
H. Upper Devonian to Middle Jurassic Assemblages
   1. Summary—S.J. Gordey, J.W.H. Monger
I. Upper Jurassic to Paleogene Assemblages
   1. Summary—C. J. Yorath
   2. Foredeeps—D. F. Stott, C. J. Yorath
   4. Volcanic Rocks—J. G. Souther, G. J. Woodworth
   J. Neogene and Quaternary Assemblages—C. J. Yorath, J. G. Souther, W. H. Mathews
   K. Physiographic Evolution and Glaciation—J. J. Cagle, W. H. Mathews
   L. Modern Plate-Tectonic Regime—R. P. Riddihough, R. D. Hyndman
   M. Volcanic Regimes—J. G. Souther
   O. Regional Metamorphism—H. J. Greenwood, G. J. Woodworth, E. D. Ghent, P. B. Read
   R. Regional Metallogeny—K. M. Dawson, A. Panteleyev
   S. Energy and Groundwater Resources
      1. Oil and Gas—C. J. Yorath
      2. Coal—R. M. Bustin
      3. Uranium—R. T. Bell
      4. Geothermal—J. G. Souther
      5. Groundwater—E. C. Halstead
   T. Natural Hazards—J. J. Cagle, L. E. Jackson
   U. Outstanding Problems—H. Gabrielse, C. J. Yorath

The Continental Margin: Eastern Canada

A. Preface—M. J. Keen, G. L. Williams
B. Introduction (Coordinators: M. J. Keen, G. L. Williams)
   1. Introduction—M. J. Keen, G. L. Williams
   2. Physiography—D. Monahan
   3. History of Research and Exploration—N. J. McMillan
   4. Instrumentation—D. E. Heffer
   5. Data Bases—R. F. Macnab, A. G. Sherin
C. Tectonic Overview (Coordinator: C. E. Keen)
   1. Introduction—C. E. Keen
   2. Paleozoic—C. E. Keen, H. Williams, R. T. Haworth
   3. Mesozoic-Cenozoic—C. E. Keen
   4. Neotectonics—J. Adams
   5. Geophysical Characteristics—H. R. Jackson, I. Reid, B. D. Loncarevic, J. Woodsie
   6. Transects—C. E. Keen, I. Reid, H. R. Jackson
D. Paleozoic (Coordinator: J. S. Bell)
   1. Introduction—J. S. Bell, G. B. Fader, L. H. King, B. MacLean
   2. Stratigraphy—J. S. Bell, R. D. Howie, W.A.S. Jenkins, A. F. King, H. Williams
   3. Geologic Structure—J. S. Bell, G. B. Fader, A. C. Grant, B. MacLean, S. P. Srivastava, H. Williams
   4. Pre-Mesozoic Erosion—J. S. Bell, L. Snowdon (continued on page 44)
5. Economic Geology—J. S. Bell, J. N. McMillan
6. Summary—J. S. Bell

E. Mesozoic-Cenozoic (Coordinator: J. A. Wade)
1. Introduction—J. A. Wade and others
3. East Newfoundland Basin—A. C. Grant, D. McAlpine, E. H. Davies
4. Labrador Shelf—N. J. McMillan, H. R. Balkwill
5. Baffin Bay–Davis Strait—B. MacLean, S. P. Srivastava, G. L. Williams

F. Hydrocarbon Resources (Coordinator: G. R. Campbell)
1. Introduction
2. Oil and Gas Development
3. Hydrocarbon Plays
4. Hydrocarbon Potential
5. Coal
6. Hydrates
7. Forecast of Future Exploration and Development
8. Synthesis

G. Evolution of the Western North Atlantic Ocean
(Coordinators: F. M. Gradstein, L. F. Jansa, S. P. Srivastava)
1. Oceanic Paleogeography
2. Stratigraphic Events and Fossil Dynamics
3. Lithofacies and Tectonics

H. Geodynamics of Continental Margins (Coordinators: C. E. Keen, C. Beaumont)
1. Introduction
2. Observational Evidence of Margin Evolution
3. Models
4. Modeling as an Interactive Tool
5. Possible Explanation for Other Margin Characteristics
6. Thermal Histories and Maturation of Margin Sediments
7. Transform Margins and Pull-apart Basins
8. Geodynamics and Driving Forces of Margins
9. Summary and Conclusions

I. Quaternary (Coordinators: D. J. W. Piper and others)
1. Introduction
2. Chronologic Control
3. Methods in Marine Quaternary
4. Gross Geomorphological History of the Continental Shelf
5. Gross Distribution of Quaternary Sediments
6. Late Quaternary of the Scotian Margin
7. Late Quaternary of Other Canadian Areas
8. Synthesis of Late Quaternary Paleoenvironment
9. Glaciomarine Sedimentation Models
10. Neotectonics
11. Synthesis

J. Modern Sedimentation Processes (Coordinator: C. L. Amos)
1. Introduction—C. L. Amos, B. R. Pelletier, D. J. W. Piper
2. Classification of Depositional Environments—C. L. Amos, J. V. Barrie, P. R. Hill, S. B. McCann, J. P. M. Syvitski
5. Directions for the Future—A. J. Bowen

K. Constraints to Development (Coordinator: C. F. M. Lewis)
1. Present and Projected Development
2. Processes and Conditions Affecting Development
3. Engineering and Environmental Attributes; Coast, Shelf, Slope and Rise, Deep Sea
4. Summary; Hazard Zonation

L. Mineral Resources (Coordinator: P. B. Hale)
1. Introduction
2. Sea-Water Minerals
3. Deep-Sea Minerals
4. Shelf Minerals
5. Future of Marine Mining Of Eastern and Arctic Canada

M. Summary (Coordinators: M. J. Keen, G. L. Williams)

In Memoriam

Edgar H. Bailey
Redwood City, California
July 23, 1983

Horace R. Blank
Bryan, Texas

Arthur C. Brookley
Ventura, California
November 10, 1984

Edgar H. Bailey
Redwood City, California
July 23, 1983

Horace R. Blank
Bryan, Texas

Arthur C. Brookley
Ventura, California
November 10, 1984

Stephen W. Conway
Houston, Texas

Earl F. Cook
College Station, Texas
October 11, 1983

Harold W. Hoots
Menlo Park, California

Tom McGlothlin
Hattiesburg, Mississippi
May 19, 1984

Clark Millison
Colorado Springs, Colorado
December 26, 1984

Robert H. Mitchell
New Concord, Ohio
November 11, 1984

Horace G. Richards
Philadelphia, Pennsylvania
November 19, 1984

Neil B. Steuer
Redmond, Oregon
November 21, 1984

Margaret Ruth Todd
Vineyard Haven, Massachusetts
August 1984

J. Stewart Williams
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GSA NEWS & INFORMATION, March 1985
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You may register any time throughout the year. Your name will be provided to all participating employers who seek individuals with your qualifications. If possible, take advantage of GSA's Employment Interview Service, which is conducted each fall in conjunction with the Society's Annual Meeting. The service brings potential employers and employees together for face-to-face interviews. Mark your calendar for October 28-31, in Orlando, Florida.

To register, complete the application form on the following page, prepare a one- two-page resume, and mail it with your payment to the address given below. One-year listing for GSA Members and Student Associates in good standing: $25, non-members: $50.

NOTE: If you plan to interview at the GSA Annual Meeting, GSA must receive your material no later than August 12, 1985. If we receive your materials by August 12, your record will be included in the information the employers receive prior to the meeting. Submit your forms early to receive maximum exposure! Don't forget to indicate on your application form that you would like to interview in October. Good luck with your search!

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The GSA Employment Service is available year long. However, GSA also conducts the Employment Interview Service each fall in conjunction with the Societywide Annual Meeting (this year in Orlando, Florida, October 28-31). You may rent interview space in half-day increments from GSA. Our staff will schedule all interviews with applicants for you, the recruiter. In addition, GSA offers a message service, complete listing of applicants, copies of resumes at no additional charge, and posting of all job openings.

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GSA NEWS & INFORMATION, March 1985
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(last name first)

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Must use specialty codes listed below. Choose three that best describe your expertise in order of importance.

* 1 _______ 2 _______ 3 _______

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YEARS EXPERIENCE IN THIS SPECIALTY

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If you do not wish to be listed for employment with a specific organization, check here ______ and list organization on an attached sheet.

Give number of years experience for any of the following that are applicable:

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101. coal geology 225. geochronology 352. statistical geology 501. exploration 650. Sedimentology
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104. nonmetallic deposits 300. Geophysics 402. clay mineralogy 504. Metallurgy 720. Stratigraphy
105. mining geology 301. seismic 410. Museum (curator) 520. Petrology 750. Structural Geology
120. Engineering Geology 302. gravity/magnetics 420. Oceanography 521. igneous 751. tectonics
150. Environmental Geology 303. seismics 421. marine geology 522. metamorphic 752. tectonophysics
180. Public Education & 304. paleomagnetism 422. coastal geology 524. sedimentary (clastic) 753. rock mechanics
Communication 320. Hydrogeology 450. Paleontology 525. experimental 800. Volcanology
220. Geochemistry 322. ground water 452. vertebrate 600. Regional Geology
221. organic 323. surface water 453. micropaleontology 620. Remote Sensing
222. high temperature 330. Library 454. paleobotany 621. photogeology
223. low temperature 350. Mathematical Geology 455. paleoecology 622. photogrammetry

* Resumé must be attached, limited to two pages, typewritten on one side only, to be acceptable for reproduction to employers. Include your name, address, and phone number; concise details of work experience; and majors/minors on degrees.

* Fee: $25 if you are a Member or Student Associate of GSA in good standing (Member # _______). $50 if you are not a member of GSA. Payment in U.S. funds (check, money order, or charge information MUST ACCOMPANY FORM). MAKE CHECK PAYABLE TO THE GEOLOGICAL SOCIETY OF AMERICA.

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I will attend the ______ GSA Annual Meeting ______

*SIGNATURE (required)

* THESE ITEMS ARE ABSOLUTELY NECESSARY TO PROCESS THIS APPLICATION

This application will be active for 1 year ______

1/85
EMPLOYER'S REQUEST FOR EARTH SCIENCE APPLICANTS

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1C3. metallic deposits 250. Geomorphology 400. Mineralogy
1C4. nonmetallic deposits 251. Pleistocene geology 401. crystallography
1C5. mineral deposits 300. Geophysics 402. clay mineralogy
1C6. mining geology 301. seismic 410. Museum (curator)
120. Engineering Geology 302. gravity/magnetics 420. Oceanography
150. Environmental Geology 303. seismicity 421. marine geology
160. Public Education & Communication 304. paleomagnetism 422. coastal geology
220. Geochemistry 321. hydrochemistry 451. invertebrate
221. organic 322. ground water 452. vertebrate
222. high temperature 323. surface water 453. micropaleontology
223. low temperature 330. Library 454. paleobotany
350. Mathematical Geology 455. paleoecology 500. Petroleum Geology
501. exploration 502. subsurface
503. stratigraphy
520. Petrology 521. igneous
522. metamorphic
523. sedimentary (clastic)
524. sedimentary (carbonate)
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550. Planetary Geology 600. Regional Geology
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622. photogrammetry 630. Science Editing
650. Sedimentology 651. sedimentary processes
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751. tectonics 752. tectonophysics
753. rock mechanics
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Signature (required)

1/85
Association for Women Geoscientists News

AWG Becomes AGI Member
The Association for Women Geoscientists, a national organization with 1000 members, has been accepted as a member society of the American Geological Institute. AWG is an interdisciplinary organization of women and men geoscientists with 12 chapters and members-at-large in the United States and several foreign countries. The goals of AWG are to encourage the participation of women in the geosciences, to promote their professional advancement, and to exchange technical and professional information. Through its chapter network, AWG creates a strong framework of support and offers current information on the multitude of opportunities and challenging careers available to women in the geosciences. AWG activities include monthly meetings, field trips, career conferences, and publishing a bimonthly newsletter, Gaea.

The American Geological Institute is a large "umbrella" organization comprising 17 geological and geophysical societies, including the American Association of Petroleum Geologists, the Geological Society of America, the American Institute of Professional Geologists, the Association of Engineering Geologists, the National Association of Geology Teachers, and the Society of Mining Engineers.

AWG Reno Breakfast Features Speaker on Career Planning
Matching motivation to job proved to be a stimulating topic for those attending the Association for Women Geoscientists breakfast meeting during the GSA Annual Meeting in Reno, Nevada, in November 1984. Marlys Hanson, manager of recruitment and career development in electronic engineering at Lawrence Livermore National Laboratory, spoke on her specialty—assessing an individual's abilities and motivations and then matching the person to the job. Those who are preparing to start, or change, careers should identify six personal accomplishments from work or personal experience, Hanson said. From that list, motivational patterns will emerge. Hanson explained motivational patterns and how to match the job to the individual.

About 100 people attended the breakfast, including professors and students as well as state and local government and industry personnel.

MEETINGS

1985


American Association of Petroleum Geologists Annual Convention, March 24-27, 1985, New Orleans, Louisiana. Information: Kathy Watson, AAPG, P.O. Box 979, Tulsa, OK 74101; (918) 584-2555.


Texas A&M Geodynamics Research Program 7th Annual Symposium, Intraplate Deformation: Characteristics, Processes and Causes, April 25-26, College Station, Texas. Information: Texas A&M Geodynamics Research Program, Texas A&M University, College Station, TX 77843-3114; (409) 845-8477.


Symposium on Neutral Models in Evolutionary Biology, May 10-11, 1985, Chicago, Illinois. Information: Matthew H. Nitecki, Dept. of Geology, Field Museum of Natural History, Roosevelt Rd. at Lake Shore Dr., Chicago, IL 60605; (312) 922-9410.


IGCP Symposium on Genesis of Neogene to Modern Phosphorites, May 16-17, 1985, Tallahassee, Florida. Information: William C. Burnett, Dept. of Oceanography, Florida State University, Tallahassee, FL 32306; (904) 644-6700.


Conference on Stable Isotopes and Fluid Processes in Mineralization, July 10-12, 1985, Brisbane, Australia. Information: John M.W. Rynn, Dept. of Geology and Mineralogy, University of Queensland, St. Lucia, Queensland 4067, Australia.

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MEETINGS


Sixth Gondwana Symposium, August 19-23, 1985, Columbus, Ohio. Information: Sixth Gondwana Symposium, Institute of Polar Studies, Ohio State University, Columbus, OH 43210; (614) 422-5431.


Problems of the Stratigraphy and Paleogeography of Loesses, September 6-10, 1985, Lublin, Poland. Information: Henryk Maruszczak, Department of Physical Geography, University Marie Curie-Sklodowska, Akademia 19, 20-33 Lublin, Poland.


Recent Advances in Interpretations of Late Paleozoic Cyclothem, Midcontinent SEPM Field Conference, October 11-13, 1985, Lawrence, Kansas. Information: W. L. Watney, Kansas Geological Survey, 1930 Constant Ave.—Campus West, Lawrence, KS 66044; (913) 864-4991.


GSA 1985

Penrose Conferences


Terranes in the Circum-Atlantic Paleozoic Orogen, May 27-June 2, 1985, Halifax, Nova Scotia. Information: John D. Keppie, Nova Scotia Department of Mines & Energy, P.O. Box 1087, 1690 Hollis St., Halifax, Nova Scotia, Canada B3J 2X1; (902) 424-5943 or 4015.

Section Meetings


South-Central Section, April 14-16, 1985, Fayetteville, Arkansas. Information: Robert C. Morris, Dept. of Geology, OH 118, University of Arkansas, Fayetteville, AR 72701; (501) 575-3355.

Rocky Mountain Section, April 22-24, 1985, Boise, Idaho. Information: Claude Spinosa, Dept. Geology and Geophysics, Boise State University, Boise, ID 83725; (208) 385-3660.


Committees and Council
(all in Boulder, Colorado)

Membership Committee—March 3
Investments Committee—March 8
Publications Committee—March 9
Nominating Committee—March or April
Research Grants Committee—April 11-12
Executive Committee—May 1
Audit Committee—May 1
Section Secretaries—May 1
Council—May 2, 3
Joint Technical Program Committee—July 12

Annual Meeting—October 28-31, Orlando, Florida
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1986 Meetings


DISCOVERIE ARTIZING

Ads (or cancellations) for the May issue must reach the GSA office by March 15.

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GSA 1986

Penrose Conference

Reefal Development in a Terrigenous Province, May or September 1986, Veracruz, Mexico. Information: Paul R. Krutak, ARCO Exploration Co., P.O. Box 51408, Lafayette, LA 70505; (318) 264-4452.

Annual Meeting

November 10–13, San Antonio, Texas

GSANews & Information, March 1985
A GENTLE REMINDER

Deadline for receipt of abstracts at GSA headquarters for the Annual Meeting in Orlando is June 7, 1985. Abstract forms are available from Abstracts Secretary, Geological Society of America, P.O. Box 9140, Boulder, CO 80301. Volunteered abstracts should be mailed to the same address in time to arrive on or before June 7.

ABSTRACTS DEADLINE JUNE 7

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