



GSA NEWS & INFORMATION

Monthly Newsletter of
The Geological Society of America

VOLUME 7, NUMBER 4

APRIL 1985

Wanted: GSA Members to Serve on Committees

The GSA Committee on Committees wants your help. As one of his duties, Vice-President W. Gary Ernst has appointed a group to look for talent to serve GSA as members of our committees and as our representatives to other organizations.

The Committee on Committees will meet in late July or early August and will present at least two nominations for each open position to the Council at its October 30 meeting in Orlando, Florida. During that meeting, individual councilors may add other names to the lists for consideration. The entire Council will then select appointees for all positions, thus completing the process of bringing new expertise into Society affairs.

The Committee on Committees for 1985 consists of the following people: John C. Crowell, chairman, Department of Geology, University of California, Santa Barbara, CA 93106, (805) 961-3224; Manuel N. Bass, Chevron Oil Field Research Company, P.O. Box 446, La Habra, CA 90631, (213) 694-7547; Carroll Ann Hodges, U.S. Geological Survey, 345 Middlefield Road, MS-919, Menlo Park, CA 94025, (415) 323-8111, ext. 2214; Ronald C. Surdam, Department of Geology & Geophysics, University of Wyoming, P.O. Box 3006, Laramie, WY 82071, (307) 766-4200; George A. Thompson, Department of Geophysics, Stanford University, Stanford, CA 94305, (415) 497-3714.

This group is broadly based in disciplines, but its members cannot possibly know all the GSA members who are potential candidates for serving the Society. You can help them by volunteering yourself or by suggesting names of others you think should be considered for any of the openings. (See 1985 GSA

Committees and Representatives, p. 55-58, for names of those now serving.)

In making recommendations, please give serious consideration to the special qualifications of the individual for a particular committee. To assist you in nominating GSA members for these various positions, see the following brief summaries of what each committee does and what qualifications are desirable. Please be sure that your candidates are Members or Fellows of the Society and that they meet fully the requested qualifications.

All nominations sent through headquarters will be forwarded to the committee members. **Deadline: June 15, 1985.** Listed below are the committees on which vacancies will occur. Appointments will be made by Council at its meeting in Orlando.

COMMITTEES AND QUALIFICATIONS

Geology & Public Policy

Translates knowledge of the earth sciences into forms most useful for public discussion and decision making.

Committee members should have an awareness of public policy and decisions involving the science of geology. They should also be able to develop, disseminate, and translate information from the geologic sciences into useful forms for the general public and for the Society membership; they should be familiar with appropriate techniques for the dissemination of information.

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1985
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ANNUAL
MEETING



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AND
CALL
FOR
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NOMINATIONS FOR GSA COMMITTEES FOR 1986

Geology & Public Policy
(3 vacancies)

Headquarters Advisory
(3 vacancies)

Penrose Medal
(3 vacancies)

Day Medal
(1 vacancy)

Honorary Fellows
(2 vacancies)

Investments
(3 vacancies)

Membership
(2 vacancies;
must be a GSA Fellow)

Nominations
(4 vacancies)

Penrose Conferences
(2 vacancies;
see special requirements)

Joint Technical Program
Representatives-at-Large
(2 vacancies; categories needing coverage:
oceanography, glacial geology, petroleum geology,
remote sensing, and computer applications)

GSA Representative for 1986
North American Commission on
Stratigraphic Nomenclature (1 vacancy)

Reminder: Please include a statement of nominee's qualifications for committee assignment.

Committee Members Wanted (continued from p. 53)

Headquarters Advisory

Gives advice on matters relating to headquarters operations.

Committee members should have an interest in management procedures and live within driving distance of GSA headquarters in Boulder.

Penrose Medal

Selects candidates for the Penrose Medal.

Committee members should be familiar with outstanding achievements in the geological community that are worthy of consideration for the honor. Emphasis is placed on "eminent research in pure geology which marks a major advance in the science of geology."

Day Medal

Selects candidates for the Arthur L. Day Medal.

Committee members should have knowledge of those who have made "distinct contributions to geologic knowledge through the application of physics and chemistry to the solution of geologic problems."

Honorary Fellows

Selects candidates for Honorary Fellows, usually non-North Americans.

Committee members should have knowledge of geologists throughout the world who have distinguished themselves through their contributions to the science.

Investments

Meets with GSA money managers and informs the Council about investment of GSA's funds, securities, equities, etc.

Committee members should have knowledge of and experience in portfolio management and be able to make recommendations concerning investment policies.

Membership

Screens Member and Fellow applications; evaluates membership benefits and makes recommendations to the Council about them.

Committee members must be GSA Fellows and must be able to attend one meeting a year. Previous experience in recruitment programs and in the evaluation of professional qualifications is desired.

Nominations

Recommends to the Council nominees for the positions of GSA officers and councilors.

Committee members should be familiar with a broad range of well-known and highly respected geological scientists.

Penrose Conferences

Considers Penrose Conference proposals and makes recommendations to the Executive Committee.

Committee members must either be past conveners or have attended two or more Penrose Conferences.

Joint Technical Program Committee, GSA Representatives-at-Large

Supervises the review of abstracts for papers to be presented at the annual meeting. Representatives-at-large should be specialists in either oceanography, glacial geology, petroleum geology, remote sensing, or computer applications. These sub-disciplines are not represented by any of the associated societies or GSA divisions.

GSA Representative to the North American Commission on Stratigraphic Nomenclature

Must be familiar with and have expertise in stratigraphic nomenclature.

1985 GSA COMMITTEES AND REPRESENTATIVES

Committees are the key to GSA's accomplishments in promoting the science of geology. Committee members and representatives contribute their expertise and experience to all areas of GSA endeavor. Listed here are those currently serving the Society and the science as committee members and as GSA representatives to other scientific groups.

Executive Committee

Brian J. Skinner—President and Chairman
W. Gary Ernst, Vice-President
M. Gordon Wolman, Past President
Robert L. Fuchs, Treasurer
Charles J. Mankin, Budget Officer

Audit Committee

George A. Thompson—Chairman; 1983-1985
Charles J. Mankin, 1984-1986
Samuel S. Adams, 1985-1987
Conferee: Robert L. Fuchs

Committee on Committees

John C. Crowell—Chairman
Manuel N. Bass
Carroll Ann Hodges
Ronald C. Surdam
George A. Thompson

Committee on Geology and Public Policy

Terry W. Offield—Chairman; 1983-1985
Thomas J. Joiner, 1983-1985
Arthur A. Socolow, 1983-1985
Michael Churkin, Jr., 1984-1986
Vincent Matthews III, 1984-1986
James R. Underwood, Jr., 1984-1986
Samuel S. Adams, 1985-1987
George A. (Art) Barber, 1985-1987
John S. Scott, 1985-1987

Headquarters Advisory Committee

Jean D. Juilland, Chairman; 1984-1986
James A. Drahovzal, 1983-1985
Richard F. Mast, 1983-1985
Steven S. Oriel, 1983-1985
Elizabeth A. Elliott, 1984-1986

Committee on Honors and Awards

Peter J. Wyllie, Chairman
Maria Luisa B. Crawford
Warren B. Hamilton

Subcommittee on Penrose Medal Award

Peter J. Wyllie, Chairman, 1985
Amos Salvador, 1983-1985
Hugh P. Taylor, Jr., 1983-1985
A. L. Washburn, 1983-1985
Gregory A. Davis, 1984-1986
Robert D. Hatcher, Jr., 1985-1987
David B. Stewart, 1985-1987

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Committees and Representatives

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Subcommittee on Arthur L. Day Medal Award

Maria Luisa B. Crawford, Chairman, 1985

Anthony J. Naldrett, 1985

Richard L. Armstrong, 1984-1986

Rob Van der Voo, 1984-1986

Lewis B. Gustafson, 1985-1987

Debra S. Stakes, 1985-1987

Karl K. Turekian, 1985-1987

Subcommittee on Honorary Fellows

Warren B. Hamilton, Chairman, 1984-1986

Campbell Craddock, 1983-1985

Troy L. Péwé, 1983-1985

James L. Wilson, 1984-1986

Robert A. Berner, 1985-1987

C. Barry Raleigh, 1985-1987

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Committee on Investments

Anthony Reso, Chairman; 1984-1986

William B. Heroy, Jr., 1983-1985

Walter E. Seibert, Jr., 1983-1985

Thomas W. Stern, 1983-1985

Rosemary J. Vidale, 1984-1986

Ex Officio: Robert L. Fuchs, Treasurer

Committee on Membership

Melvin C. Schroeder, Chairman; 1985-1987

Henri E. Gaudette, 1983-1985

Marcus E. Milling, 1983-1985

Donald L. Baars, 1984-1986

Donald C. Haney, 1984-1986

Constance A. Sancetta, 1985-1987

Committee on Nominations

Vincent E. McKelvey, Chairman

B. Clark Burchfiel

Arthur R. Green

Muriel Mathez

James W.H. Monger

Committee on Penrose Conferences

George W. Viele, Jr., Chairman; 1983-1985

J. Wright Horton, Jr., 1983-1985

Kevin Burke, 1984-1986

Richard J. Moiola, 1984-1986

Program Review Committee

Lee J. Suttner, Chairman; 1985-1987

David B. Slemmons, 1984 JTPC Chairman

James F. Tull, 1985 JTPC Chairman

John C. Maxwell, 1986 JTPC Chairman

Clement G. Chase, 1987 JTPC Chairman (term begins at summer 1985 JTPC meeting)

Committee on Publications

William A. Thomas, Chairman and Editor of the *Bulletin*; 1985-1986

Maria Luisa B. Crawford, 1983-1985

John M. Aaron, 1984-1986

Gunter Faure, 1984-1986

Robert D. Hatcher, Jr., Editor of the *Bulletin*

Eldridge M. Moores, Editor of *Geology*

Campbell Craddock, Editor of *Memoirs and Special Papers*

John C. Reed, Jr., Editor of *Maps and Charts*

Conferee: F. Michael Wahl, Executive Director

Committee on Research Grants

James F. Tull, Chairman; 1984-1986

Timothy A. Cross, 1985-1986

Nancy Lindsley-Griffin, 1985-1986

George H. Brimhall, Jr., 1985-1987

Sharon Mosher, 1985-1987

Conferee: James F. Hays

Treatise on Invertebrate Paleontology Advisory Committee

James T. Sprinkle, Chairman; 1983-1986

Brian F. Glenister, 1985-1988

F. Michael Wahl

(continued)

Committees and Representatives

(continued)

Ad Hoc Committee on Minorities in the Geosciences

Elisabeth C. Schwarzman, Chairman; 1984-1985
Charles A. Baskerville
Louis A. Fernandez
David A. Lopez
Clement F. Shearer

GSA Steering Committee on Decade of North American Geology

M. Gordon Wolman, Chairman, 1985
Albert W. Bally, 1980-1986
Robert G. Blackadar, 1980-1986
Gabriel Dengo, 1980-1986
Charles L. Drake, 1980-1986
Jose C. Guerrero, 1980-1986
James F. Hays, 1983-1985
Digby J. McLaren, 1985-1987
Raymond A. Price, 1980-1986
John C. Reed, Jr., 1981-1986
Guillermo P. Salas, 1984-1986
Leon T. Silver, 1980-1986
John O. Wheeler, 1980-1986

Ex Officio: Brian J. Skinner, President; W. Gary Ernst, Vice-President; Robert L. Fuchs, Treasurer; F. Michael Wahl, Executive Director; A. R. "Pete" Palmer, Centennial Science Program Coordinator; Dwight V. Roberts, President, GSA Foundation

GSA Member of the AGI Member Society Council

Bruce B. Hanshaw, January 1, 1984-December 31, 1986

GSA Representatives to American Association for the Advancement of Science

Section E—Geology and Geography

Peter A. Rona, January 9, 1982-May 31, 1985

J. Thomas Dutro, Jr., June 1, 1985-May 31, 1988

Section W—Atmospheric and Hydrospheric Sciences

Richard R. Parizek, January 9, 1982-May 31, 1985

William Back, June 1, 1985-May 31, 1988

GSA Delegate to Circum-Pacific Council

Robert L. Fuchs, May 2, 1984-

GSA Representatives to North American Commission on Stratigraphic Nomenclature

Norman P. Lasca, Jr., 1982-1985

Charles W. Copeland, Jr., 1983-1986

Patrick K. Sutherland, 1984-1987

John M. Dennison, 1985-1988 (Representative-elect; term begins during NACSN meeting in Orlando)

GSA Designees to Joint ASCE-GSA-AEG Committee on Engineering Geology (American Society of Civil Engineers)

Cole R. McClure, Jr., July 1, 1979-June 30, 1985

LoKesh Chaturvedi, July 1, 1984-June 30, 1987

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A State-of-the-Art Symposium on

DEGRADATION OF MATERIALS DUE TO ACID RAIN

June 17-19, 1985

Stouffer's Concourse Hotel
Arlington, Virginia

Symposium Topics

- Measurement and Monitoring of environments and degradation
- Metallic Corrosion
- Degradation of Organics such as coatings, paints, plastics sealants, and wood
- Masonry Deterioration such as stone, concrete, mortar and brick
- Economic Factors

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National Association of Corrosion Engineers
Society of Plastics Engineers

In addition to the oral presentation program, poster sessions will be held in order to allow current work in all areas of degradation of materials due to acid rain to be presented. Papers are invited for poster presentation: the deadline is March 15, 1985 for submitting abstracts on the standard ACS form. For further information please contact the American Chemical Society, c/o Nancy L. Hadlock, 1155 Sixteenth Street, N.W., Washington, D.C. 20036, (202) 872-4402.

Committees and Representatives

(continued from p. 57)

GSA Representative to National Research Council Committee on Ground Failure Hazards Mitigation Research
Thomas L. Holzer

GSA Representative to U.S. National Committee on Rock Mechanics
George A. Kiersch, July 1, 1980-June 30, 1986

GSA Representative to U.S. National Committee on Tunneling Technology
Lloyd B. Underwood, January 1, 1981-June 30, 1986

GSA Designees to GSA-Soil Science Society of America Interdisciplinary Committee

Peter W. Birkeland
Leon R. Follmer
John W. Hawley
Robert V. Ruhe

GSA Designee to the Steering Committee of Correlation of Stratigraphic Units of North America
Robert R. Jordan

GSA Representative to U.S. Committee for the International Association of Hydrogeologists
David A. Stephenson, 1978-1985

University Offers Florida Maps

If you want to brush up your knowledge of Florida geology before going to the 1985 GSA Annual Meeting in Orlando, the University of Florida has a useful package: a geologic map, a map of physiographic divisions, and a user's guide. The maps were prepared by H. Kelly Brooks, professor emeritus of geology, Center for Environmental and Natural Resources Programs, Institute of Food and Agricultural Sciences, University of Florida, Gainesville.

I. *Geologic Map of Florida*. The aerial distribution of the earth materials, i.e., rocks and sediments, at or near the earth surface is shown in color and by color patterns. The map (44" x 62") is designed for people who need information on the nature of the materials underlying the surficial soils. The physical properties of the rocks and sedimentary deposits mapped are described in the legend. The terminology has been kept as simple as possible so that the map could readily be used by anyone interested in the geology of Florida. The scale of 1:500,000 was chosen so that the patterns on the map could easily be compared to those on *The*

ERTS-1 Satellite Image Mosaic published by the U.S. Geological Survey.

II. *Physiographic Divisions—State of Florida*. This map (44" x 62") was designed to portray the natural divisions of the state of Florida. The major and minor physiographic features are classified in relation to the underlying geologic structure, rock type, process of landscape formation, relief, and drainage. The map should be used in conjunction with the *Geologic Map of Florida* (IFAS, 1982) and *The ERTS-1 Satellite Image Mosaic* published by the U.S. Geological Survey. The accompanying *User's Guide* has synoptic descriptions for each of the natural features mapped.

To Order: For both maps and user's guide send \$5.00 (checks payable to the University of Florida) to: Administrative Services, IFAS-(Bldg. 664), University of Florida, Gainesville, Florida 32611.

Florida residents add 5% sales tax. Send \$10.00 for orders outside the continental U.S.

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OCTOBER 28-31, 1985
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1985 ANNUAL MEETING AND EXPOSITION

ABSTRACTS DUE/JUNE 7
For Abstract Forms (303) 447-8850

PREREGISTRATION DUE/SEPTEMBER 27
For Meeting Information (303) 447-2020

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1985 ANNUAL MEETING PRELIMINARY ANNOUNCEMENT AND CALL FOR PAPERS

Technical sessions for the 1985 GSA Annual Meeting consist of both volunteered papers and invited symposia. Chairmen of the Joint Technical Program Committee are James F. Tull and Joseph Donoghue, Dept. of Geology, Florida State University, Tallahassee, FL 32306.

For any information related to abstracts, call Miriam Hansen, GSA Abstracts Coordinator, at (303) 447-8850.

VOLUNTEERED PAPERS. Abstracts for the technical sessions (both oral and poster presentations) must be submitted on 1985 abstract forms, available from GSA headquarters (P.O. Box 9140, Boulder, CO 80301) and from the geology departments of most colleges and universities. The abstract form will be used as camera-ready copy for publication of *Abstracts with Programs*. Senior authors will be charged a \$15 fee if retyping is necessary, and there will be no opportunity for authors to review or revise typed abstracts after they are submitted. *Note:* No more than one abstract from any person as sole or senior author will be accepted for publication, and due to scheduling difficulties, no author may present more than one volunteered paper. These restrictions do not apply to symposia.

DEADLINE FOR RECEIPT OF VOLUNTEERED ABSTRACTS AT GSA: FRIDAY, JUNE 7, 1985

Normal length of presentation is 15 minutes, including time for discussion. Projection equipment consists of TWO 35-mm (2" x 2") projectors and two screens. Overhead projectors will be provided on request. Each poster session speaker will be provided with three tackboards approximately 7'8" wide and 4' high. The boards are hung horizontally on an 8' x 8', three-sided booth. Poster speakers are scheduled in four-hour intervals.

INVITED SYMPOSIA. Communicate with the symposium convener about symposia abstracts or participation. Symposia abstracts are to be sent directly to the convener—not to GSA. The schedule of symposia and other programming will appear in the August issue of *News & Information*.

1. **Archaeological Sites: Their Adaptation to Marine Environments.** Archaeological Geology Division; Charles Vitaliano.
2. **The Peat to Lignite Transition.** Coal Geology Division; Arthur D. Cohen.
3. **Engineering Geology of Low-Energy Coastlines.** Engineering Geology Division; Robert L. Schuster.
4. **Radiometric Calibration of Thermal History and Applications to Geophysics.** Geophysics Division; Tullis C. Onstott.
5. **History of Investigations of Recent and Ancient Reefs.** History of Geology Division; Joseph T. Gregory.
6. **Multiple Uses of Aquifers.** Hydrogeology Division; John Vecchioli.
7. **Rifting and Volcanism: The Planetary Perspective.** Planetary Geology Division; Victor R. Baker.
8. **Sedimentary Processes and Deposits of Low Energy Coastlines.** Quaternary Geology and Geomorphology Division; Albert C. Hine.
9. **Sedimentologic Consequences of Convulsive Events.** Sedimentary Geology; H. Edward Clifton.
10. **Caribbean Tectonics.** Structural Geology and Tectonics Division; Grenville Draper.
11. **Evolutionary Paleobiogeography I: Climate Change and**

- the Species.** Cushman Foundation; Thomas M. Cronin.
12. **Proterozoic Massif-Type Anorthosites and Related Rocks: Their Origins and Implications for the Evolution of the Earth's Crust and Mantle.** E. Craig Simmons.
13. **Micros, Minis and Geoscience Information.** Geoscience Information Society; Annette E. Bourgeois.
14. **Quantitative Petrology: Theory, Experiment and Field.** Mineralogical Society of America; Hans P. Eugster.
15. **Recent Advances in Structural Geology: Implications for Instruction.** National Association of Geology Teachers; H. Robert Burger.
16. **Evolutionary Paleobiogeography II.** Paleontological Society; Karl W. Flessa.
17. **Gold Deposits in Metamorphosed Terranes.** Society of Economic Geology; Ulrich Peterson.
18. **Metamorphic Histories of Appalachian Terranes: Contrasts and Comparisons across Possible Microplate Boundaries.** Gail S. Russell.
19. **The First Fifty Million Years of Cenozoic Climate.** Thomas J. Crowley.
20. **Melanges and Olistostromes of the U.S. Appalachians.** J. Wright Horton.
21. **Paleosols and Weathering through Geologic Time: Principles and Applications.** Wayne R. Sigleo.
22. **Opportunities for Study in an Ultra-Deep Scientific Drill Hole in the Southern Appalachians.** Robert D. Hatcher, Jr.
23. **Decade of North American Geology: The Atlantic Coastal Plain and Continental Margin.** Robert E. Sheridan and J. Grow.
24. **Geochemical Fossils: Precambrian to Recent.** John Zumberge.

FIELD TRIPS

Orlando is centrally located in Florida and offers easy access to many interesting geologic exposures. The oldest surficial rocks in Florida are middle Eocene. Miocene and younger sandstone, clay, and carbonate rocks, which are dominant, blanket most of the peninsula. Phosphatic sands, delicate environments of deposition, wetlands, and extensive karst topographies provide unique opportunities for local field trips. The proximity of Florida to the southern Appalachian Highlands, the Bahamas Platform, and the Caribbean islands affords a basis for field trips to diverse and classic geologic features in these areas. Select a trip that touches your fancy: Appalachian geology, coastal processes, carbonate landforms, archaeology, Caribbean plate geology, Andean geology, and more.

The 1985 Field Trip Chairman is Douglas L. Smith, Dept. of Geology, University of Florida, Gainesville, FL 32611, (904) 392-6766. Feel free to contact Doug Smith or the Field Trip Coordinator at GSA headquarters, Kathy Ohmie, (303) 447-2020 if you have further questions.

Premeeting Trips

1. **Sedimentology of a Barrier Island and Marsh Dominated Coast, West-Central Florida.** Richard A. David, Jr., University of South Florida, Tampa; Albert C. Hine, University of South Florida, St. Petersburg; Daniel F. Belknap, University of Maine, Orono. Three days, October 25, 26, 27.
2. **Pleistocene and Holocene Carbonate Environments on San Salvador Island, Bahamas.** H. Allen Curran, Smith College, Northampton; Roger J. Bain, University of Akron, Akron; James L. Carew, College of Charleston, Charleston; John E. Mylroie, Murray State University, Murray; James W. Teeter, University of Akron, Akron; Brian White, Smith College, Northampton. Three and one-half days, October 24, 25, 26, 27.
3. **Karst Hydrogeology of Central and North Florida.** Barry F. Beck, University of Central Florida, Orlando. One day (meet previous evening), October 27.
4. **Coastal Geology and the Occurrence of Beachrock: Central Florida Atlantic Coast.** Donald K. Stauble, Florida Institute of Technology, Melbourne; Donald F. McNeill, Environmental Science and Engineering, Inc., Gainesville. Three days, October 25, 26, 27.
5. **Geology of Southernmost Piedmont of Georgia.** Steven Kish, Florida State University, Tallahassee; Steven Schamel, University of South Carolina, Columbia; Thomas B. Hanley, Columbus College, Columbus. Three days (meet previous evening), October 25, 26, 27.
6. **Volcanic-Hosted Gold and High-Alumina Rocks of the Carolina Slate Belt, North Carolina and South Carolina.** P. Geoffrey Feiss, University of North Carolina, Chapel Hill; J. Robert Butler, University of North Carolina, Chapel Hill; Terrence L. Klein, USGS—Reston; Robert G. Schmidt, USGS—Reston. Four days (meet previous evening), October 24, 25, 26, 27.
7. **Carboniferous Coal-Bearing Rocks and the Mississippian/Pennsylvanian Boundary in the Southern Appalachians.** Kenneth J. Englund, USGS—Reston; William H. Gillespie, USGS—Charleston; Thomas J. Crawford, Western Georgia College, Carrollton; C. Blaine Cecil, USGS—Reston; John F. Windolph, Jr., USGS—Reston. Four days, October 24, 25, 26, 27.

During-Meeting Trips

8. **Winter Park Sinkhole.** Self-guided with handout prepared by Florida Sinkhole Research Institute. Transportation provided. Two separate one-half day trips, October 29 and October 30.

Postmeeting Trips

9. **Florida Land-Pebble Phosphate District.** James B. Cathcart, USGS—Denver; Mark J. Stewart, University of South Florida, Tampa; Tom Scott, Florida Bureau of Geology, Tallahassee. Two days, November 1, 2.
10. **Geology of Jamaica.** Grenville Draper, Florida International University, Miami. Four days, November 1, 2, 3, 4.
11. **Geology of Haiti.** Florentin J.-M.R. Maurrasse, Florida International University, Miami. Five days, November 1, 2, 3, 4, 5.
12. **Cenozoic Geology of the Apalachicola River Area, Northwest Florida.** Walter Schmidt, Florida Bureau of Geology, Tallahassee; Jeffrey Wagner, Northwest Florida Water Management District, Havana; Howard Kirk, Floridin Clay Company, Quincy. One day, November 1.

13. **Coastal Morphology of Southwest Florida and Its Relevance to Past Human Occupation of That Coast.** Jerald T. Milanich, Florida State Museum, Gainesville; Thomas M. Messimer, Messimer & Associates, Cape Coral. Three days, October 31, November 1, 2.
14. **Geology of the Darwin Archipelago (Galapagos Islands) and the Andes of Ecuador.** Michael R. Perfit, University of Florida, Gainesville. For further information, contact Mike Perfit or Giovanna Holbrook, Holbrook Travel, Inc., 3520 NW 13th Street, Gainesville, FL 32601, (904) 377-7111. Seven days, November 1, 2, 3, 4, 5, 6, 7.

SHORT COURSES

Details such as course descriptions, fees, and how to register for the short courses listed here will be provided in August *GSA News & Information*.

Mollusks. Sponsored by the Paleontological Society. Sunday, October 27, 8:00 a.m.–5:00 p.m. For information: David J. Bottjer, Dept. of Geological Sciences, University of Southern California, Los Angeles, CA 90089-0741; (213) 743-8913.

Modern and Ancient Deep-Sea Fan Sedimentation. Sponsored by the Society of Economic Paleontologists and Mineralogists. Saturday, October 26, and Sunday, October 27. For information: Jody Garrett, SEPM, P.O. Box 4756, Tulsa, OK 74159; (918) 743-2498.

Balancing Cross Sections. Sponsored by the GSA Structural Geology and Tectonics Division. Friday, November 1, and Saturday, November 2. For information: Nick Woodward, Dept. of Geological Sciences, University of Tennessee, Knoxville, TN 37916; (615) 974-6005.

Crystallography. Sponsored by the Mineralogical Society of America. Thursday through Sunday, October 24–27. For information: G. V. Gibbs, Dept. of Geological Sciences, 5057 Derring Hall, VPI & State University, Blacksburg, VA 24061; (703) 961-6521.

The Epithermal Environment. Sponsored by the Society of Economic Geologists. Thursday, October 24, through noon on Sunday, October 27. For information: Phillip M. Bethke, U.S. Geological Survey, National Center, MS 959, Reston, VA 22092; (703) 860-6602.

WORKSHOPS

GEOREF Round-Table for Advanced Users. Sponsored by AGI and GIS. Monday, October 28, 8:30 a.m.–12:00 noon. For information: Miriam Sheaves, Geology Librarian, University of North Carolina, Mitchell Hall (029-A), Chapel Hill, NC 27514; (919) 933-2386 or Julie Jackson, AGI, 4220 King Street, Alexandria, VA 22302; (703) 379-2480.

GEOREF Round-Table for Beginners. Sponsored by AGI and GIS. Thursday, October 31, 8:30 a.m.–12:00 noon. For information: Same as above.

Geowriting: Quickly. Clearly. Concisely. Sponsored by GSA. Saturday, October 26, 9:00 a.m.–5:00 p.m. Instructed by Wendell Cochran, science writer, editor, and photographer. For information: Jean Kinney, GSA headquarters.

(continued on p. 62)

ORLANDO WELCOME

Orlando, one of the world's most popular tourist destinations, offers endless entertainment. Within a 20-minute drive is the WALT DISNEY WORLD® Resort, which includes the MAGIC KINGDOM® and the EPCOT Center (Experimental Prototype Community of Tomorrow). Sea World is within 10 minutes of the Convention Center. Within a 30-minute drive is Cypress Gardens, and within a 60-minute drive are both Busch Gardens and the Kennedy Space Center. The October meeting dates offer the advantage of good weather during a lull in the tourist season.

Anthony F. Randazzo, University of Florida, is the General Chairman for the 1985 Annual Meeting. He has selected his committee members from various Florida institutions, including the University of Florida, Florida State University, University of Central Florida, University of South Florida, and the Coastal Petroleum Company.

ACCOMMODATIONS

GSA has selected ten official hotels, which will offer special GSA convention rates. Eight hundred rooms are reserved at the Orlando Marriott (headquarters) on International Drive, which will host many of our social and business events. Other hotels include Hilton Inn Florida Center, Holiday Inn, Radisson Inn and Aquatic Center, Rodeway Inn, Howard Johnson's, two Day's Inns and two Quality Inns. Hotel rates range from \$32 to \$70 for a single and \$32 to \$80 for a double.

The Orange County Convention/Civic Center, which opened in February 1983, will be the location for all of the technical sessions, exhibits, employment service, science theater, and registration. The hotels range in distance from the Convention Center from within a few blocks to three miles. Shuttles will be provided for all GSA-selected hotels.

TRANSPORTATION

Getting there is convenient. Almost all major carriers fly into Orlando, making it accessible from all parts of the world. Air fares into Orlando are competitive. GSA will also name an official travel agency that will establish special discounted air fares.

Many of Orlando's special attractions can be reached only by car or bus. Car rental fees are being negotiated for GSA travelers. Private bus transportation is also a regular part of the services offered by many of the Orlando hotels.

WHAT'S HAPPENING

Exhibits. The Geoscience Exhibit opens Sunday, October 27, 6-9 p.m. Exhibitors will display computer hardware and software, measurement equipment, maps, X-ray diffraction and other instruments, cameras and other photographic equipment, spectrometers, microscopes, microanalysis equipment, and publications. For information, contact Kathy Ohmie, GSA headquarters.

Combined Publishers' Display. Designed for publishers who have 10 or fewer books to display, the booth will be located in the exhibit hall and offers a means to advertise at a minimal cost. GSA sets up and staffs the booth and distributes order forms to all viewers. For information, contact Jean Kinney, GSA headquarters.

Welcoming Party. Arrive in time for the opening-night reception at the Convention Center, 6-9 p.m. At the same time, you may register for the meeting, if you didn't preregister, and view the exhibits.

Guest Program. Orlando is a wonderland of tourist adventures. It offers many attractions for adults and children that cannot be found anywhere else, especially in one location. Trips to these various attractions can be arranged easily by individuals through the hotel concierge or, in advance, by your travel agent.

As a special consideration for GSA guests, additional customized programs are being arranged by your Orlando host committee. Guest tours are planned for Kennedy Space Center, Apoka (the fern capitol of the world), and historic Winter Park, where the world's largest selection of Tiffany glass can be seen. Other programs under consideration are a tasting seminar and programs on food sculpture and Florida citrus culture.

The Kennedy Space Center trip will include a guided professional tour of the center and the entire history of the space program. You will see exhibits of the actual rockets and missiles from America's moon exploration program. Luncheon is included.

The Hospitality Room will be open daily at the Marriott to welcome you, members of your family, and other guests.

Alumni Night. The traditional alumni night (Monday, October 28) may not be so traditional in Orlando! We're close to completing plans for a surprise that will take us out of the hotel ballroom and into a new and exciting atmosphere. Stay tuned! If you would like to schedule an alumni reception, please contact Jean Kinney, GSA headquarters, before June 1.

Employment Service. GSA will again offer its employment interview service. Booths are provided for employers to interview applicants who are registered with the service. Staff will be available to assist in scheduling these interviews. Computer listings of our applicant file and resumes are available to employers. See the March issue of *GSA News & Information* for forms and further information, or contact the Employment Service Coordinator at GSA headquarters, (303) 447-2020.

Special Events

Sea World. Wednesday evening, October 30. Sea World of Orlando has earned its reputation as one of the nation's top attractions, and it sets the standard for aquatic zoological parks. Sea World will feature four major shows for the GSA evening: Shamu, Dolphins, Waterski, and Shark Encounter. The evening also includes a casual, outdoor meal, soft drinks and beer, and live music.

Shakespeare's Tavern. Monday or Tuesday evening, October 28 or October 29. Extraordinary entertainment is the talent of colorfully costumed characters right out of the pages of history. William Shakespeare is the host overseeing the authentic Olde English song and dance festivities. For atmosphere, think Tom Jones, not Hamlet. This is a bawdy, six-course feast made for hearty appetites. It's an evening of pageantry, revelry, frivolity, FUN!

WALT DISNEY WORLD® Resort—Special Two-Day Pass. A special two-day pass will be available for GSA registrants and guests who want to visit the WALT DISNEY WORLD® Resort. This special pass provides back-and-forth access to both the MAGIC KINGDOM® and EPCOT Center during any two days between October 24 and November 3. The two-day pass includes all rides, attractions, and adventures. It also includes parking. The adult pass will be offered at a 10% discount. The passes may be purchased with your meeting registration.

MEETINGS

1985

Analytical Chemistry in the Exploration, Mining and Processing of Materials, 2nd International Symposium, April 15-19, 1985, Pretoria, South Africa. Information: Symposium Secretariat S.328, CSIR, P.O. Box 395, Pretoria, 0001 South Africa.

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 Organics and Ore Deposits, April 25-26, 1985, Denver, Colorado. Information: Denver Region Exploration Geologists Society, 5025 Ward Rd., Suite 508, Wheat Ridge, CO 80033.

IGCP Field Workshop and Seminar on Neogene Phosphorites of the Southeastern United States, May 6-15, 1985, North Carolina and Florida. Information: Stanley R. Riggs, Dept. of Geology, East Carolina University, Greenville, NC 27834; (919) 757-6360.

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.

Geological Association of Canada-Mineralogical Association of Canada Annual Meeting, May 15-18, 1985, Fredericton,

New Brunswick, Canada. Information: H. W. Van de Poll, Dept. of Geology, University of New Brunswick, P.O. Box 4400, Fredericton, N.B., Canada E3B 5A3; (506) 453-4803; Telex 014-46-202.

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.

Mount St. Helens Five Years Later, May 16-18, 1985, Cheney, Washington. Information: Michael M. Folsom or Sarah A.C. Keller, Dept. of Geography and Anthropology, Eastern Washington University, Cheney, Washington 99004; (509) 359-2433. Abstracts deadline is March 15, 1985.

Symposium on Degradation of Materials Due to Acid Rain, June 17-19, 1985, Arlington, Virginia. Information: Bruce R. Doe, U.S. Department of the Interior, National Park Service, Washington, DC 20240.

26th U.S. Symposium on Rock Mechanics, June 26-28, 1985, Rapid City, South Dakota. Information: Eileen Ashworth, Dept. of Mining Engineering, South Dakota School of Mines and Technology, Rapid City, SD 57701-3995; (605) 394-2344.

International Symposium on Karst Water Resources, July 7-19, 1985, Ankara and Antalya, Turkey. Information: A. Ivan Johnson, Woodward-Clyde Consultants, 7600 East Orchard Rd., Harlequin Plaza North, Englewood, CO 80111.

A new GSA Special Paper by A.M.C. Şengör, the product of his long-standing interest in Tethyan problems.

With this work, Şengör hoped to fill an important gap he saw in the regional tectonic literature of Eurasia, namely a synthetic overview of the early history of the Alpine-Himalayan mountain ranges and its expected implications for the "Tethyan paradox," first brought into focus by Alan Smith of Cambridge.

GSA Special Paper 195: **The Cimmeride Orogenic System and the Tectonics of Eurasia**, by A. M. Celâl Şengör, 8½" × 11", paperback, 91 pages, illustrated, with subject & author indexes and one folded map insert. ISBN 0-8137-2195-4, CIP, paperback . . . \$17.00.

The CIMMERIDE OROGENIC SYSTEM and the TECTONICS of EURASIA

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MEETINGS

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.

International Estuarine Conference, July 28-August 2, 1985, Durham, New Hampshire. Information: Bjorn Kjerfve, Belle W. Baruch Institute for Marine Biology and Coastal Research, University of South Carolina, Columbia, SC 29208; (803) 777-4529. Abstracts deadline is February 18, 1985.

International Clay Conference, July 28-August 2, 1985, Denver, Colorado. Information: Western Experience, Ltd., 2450 Central Ave., P2, Boulder, CO 80302; (303) 449-3352.

Society of Economic Paleontologists and Mineralogists 2nd Annual Midyear Meeting, Golden Prospects for Science and Industry, August 11-14, 1985, Golden, Colorado. Information: Steve Sonnenberg, 1000 Writer Square, 1512 Larimer St., Denver, CO 80202; (303) 571-1314.

Zeolite '85, August 12-16, 1985, Budapest, Hungary. Information: J. Engelhardt, Central Research Institute for Chemistry, Hungarian Academy of Sciences, H-1525 Budapest, P.O. Box 17, Hungary.

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.

IVth Chilean Geological Congress, August 19-24, 1985, Antofagasta, Chile. Information: Organizing Committee, IVth Chilean Geological Congress, Dept. of Geosciences, Universidad del Norte, Casilla 1280, Antofagasta, Chile; phone 222040-205.

International Symposium on Geothermal Energy, August 26-30, 1985, Kailua-Kona, Hawaii. Information: Geothermal Resources Council, P.O. Box 1350, Davis, CA 95617-1350; (916) 758-2360.

Symposium on Modern and Ancient Clastic Tidal Deposits, August 26-28, 1985, Utrecht, Netherlands. Information: S. D. Nio, Comparative Sedimentology Division, University of Utrecht, Budapestlaan 4, 3584 CD Utrecht, Netherlands; telephone 030/53.51.21.

Tectonostratigraphic Terranes of Circum-Pacific Orogenic Belts and Their Relationships to Energy and Mineral Resources, August 26-29, 1985, Sydney, Australia. Information: Secretary, 3rd Circum-Pacific Terrane Conference, Earth Resources Foundation, Edgeworth David Building, University of Sydney, New South Wales 2006, Australia.

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, Akademicka 19, 20-33 Lublin, Poland.

6th International Conference on Basement Tectonics, September 16-20, 1985, Santa Fe, New Mexico. Information: M. J. Aldrich, Jr., Mail Stop D462, Los Alamos National Laboratory, Los Alamos, NM 87545; (505) 667-1495 or 7590.

American Institute of Professional Geologists Annual Meeting, September 17-21, 1985, St. Paul, Minnesota. Information: Robert E. Pendergast, Geotechnical Engineering Corp., 1925 Oakcrest Ave., Roseville, MN 55113; (612) 636-7744.

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Second International Mine Water Congress, September 17-21, 1985, Granada, Spain. Information: R. Fernandez Rubio, School of Mines, Technical University of Madrid, Rios Rosas, 21, Madrid 3, Spain.

High Heat Production Granites, Hydrothermal Circulation and Ore Genesis, September 22-25, 1985, Cornwall, England. Information: Conference Office, Institution of Mining and Metallurgy, 44 Portland Pl., London W1N 4BR, England; 01-580 3802, Telex 261410 IMM.G.

Computer Applications in Oil and Gas Exploration and Development, October 3-5, 1985, Wichita, Kansas. Information: D. F. Merriam, Dept. of Geology, Wichita State University, Wichita, KS 67208; (316) 689-3140.

Association of Engineering Geologists Annual Meeting, October 7-11, 1985, Winston-Salem, North Carolina. Information: Norman R. Tilford, Ebasco Services, 2211 Meadowview, Greensboro, NC 27047; (919) 855-7500.

International Symposium on Management of Hazardous Chemical Waste Sites, October 9-10, 1985, Winston-Salem, North Carolina. Information: Norman R. Tilford, Dept. of Geology, Texas A&M University, College Station, TX 77843-3115; (409) 845-9682.

Recent Advances in Interpretations of Late Paleozoic Cyclothems, 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.

(continued on p. 66)

MEETINGS (continued from p. 65)

Geological Society of America Annual Meeting, October 28-31, 1985, Orlando, Florida. Information: Anthony F. Randazzo, Dept. of Geology, University of Florida, Gainesville, FL 32611; (904) 392-6127.

GSA 1985

Penrose Conferences

Geomorphic and Stratigraphic Indicators of Neogene-Quaternary Climatic Change in Arid and Semiarid Environments, April 14-19, 1985, Lake Havasu, Arizona. Information: John C. Dohrenwend, U.S. Geological Survey, M.S. 41, 345 Middlefield Rd., Menlo Park, CA 94025; (415) 323-8111, ext. 2169.

Terranes in the Circum-Atlantic Paleozoic Orogens, 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.

North-Central Section, April 25-26, 1986, DeKalb, Illinois. Information: Jonathan H. Berg, Dept. Geology, Northern Illinois University, DeKalb, IL 60115; (815) 753-1943.

Cordilleran Section, May 8-10, 1985, Vancouver, British Columbia. Information: W. H. Mathews, Dept. Geological Sciences, University of British Columbia, Vancouver, B.C., Canada V6T 2B4; (604) 228-2624.

Committees and Council

(all in Boulder, Colorado)

Research Grants Committee—April 11-12

Executive Committee—May 1

Audit Committee—May 1

Section Secretaries—May 1

Council—May 2, 3

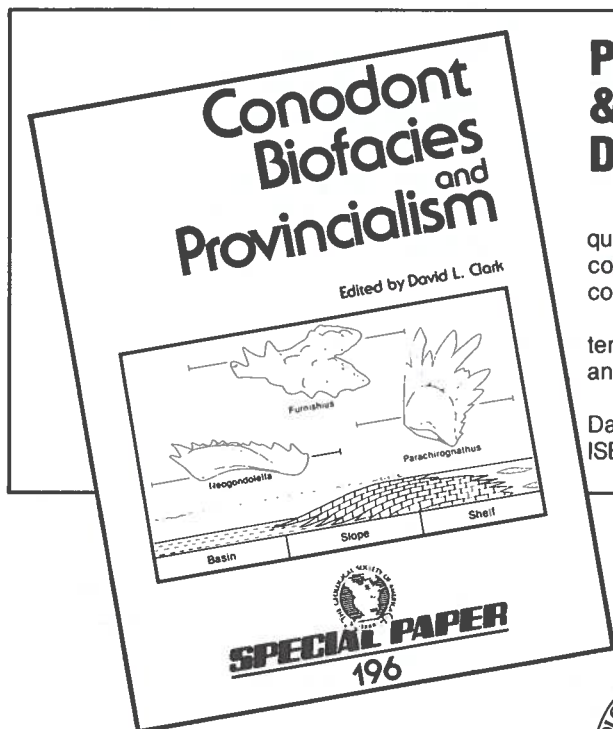
Joint Technical Program Committee—July 12

Annual Meeting—October 28-31, Orlando, Florida

1986

6th Offshore South East Asia Conference, January 28-31, 1986, Singapore. Information: D. H. Morgan, SEAPEX OSEA Committee, Marathon Petroleum Exploration, Ltd., P.O. Box 227, Tanglin Post Office, Singapore 9124. (Abstracts deadline is April 30, 1985.)

(continued)



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Those working with conodonts have been challenged to develop quantitative methods for biofacies definition with the expectation that conodont biofacies could be as useful as the well established utility of conodonts in biostratigraphy.

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GSA SP-196, *Conodont Biofacies and Provincialism*, edited by David L. Clark. Paperback, 8½" x 11", 345 pages, illustrated, CIP. ISBN 0-8137-2196-2 \$36.00 U.S.

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The World Geo Guide

reference volume 1981 edition

The former representative of the Swedish publishing firm who compiled the first issue of *The World Geo Guide* in 1981 announces that the surplus inventory of this publication is available to members of The Geological Society of America, without charge, except for \$3.00 to cover postage and handling costs.

This comprehensive publication lists consultants, contractors, and equipment manufacturers in the geotechnical field. Even though the edition was first offered in late 1981, it is believed that a majority of the information contained in the volume is still pertinent. The original selling price of *The World Geo Guide, 1981*, was \$49.00.

Distribution will be made on a first-come, first-served basis until inventory is exhausted. Any negotiable form of payment, **except credit cards**, will be accepted; make checks payable to Joseph J. Hicks. Respond directly to Mr. Hicks (not to the Society) at 465 Summit Springs Road, Woodside, CA 94062. Telephone, equipped with answering machine after 4 rings, is (415) 851-8194.

MEETINGS

International Volcanological Congress, February 1-9, 1986, New Zealand. Information: John A. Gamble, Victoria University, Private Bag, Wellington, New Zealand.

Geochemistry and Mineralisation of Proterozoic Volcanic Suites, April 2-5, 1986, Nottingham, England. Information: Tim Pharaoh, Deep Geology Research Group, British Geological Survey, Keyworth, Nottingham NG12 5GG, England. (Abstracts deadline is May 1, 1985.)

Geological Association of Canada-Mineralogical Association of Canada Annual Meeting, May 19-21, 1986, Ottawa, Ontario. Information: J. A. Donaldson, Dept. of Geology, Carlton University, Ottawa, Ontario K1S 5B6, Canada; (613) 231-2630.

Third International Conference on Geoscience Information, June 1-5, 1986, Adelaide, Australia. Information: Secretary, Organising Committee 3ICGI, Australian Mineral Foundation, PB97, Glenside, South Australia 5065.

6th International Conference on Geochronology, Cosmochronology and Isotope Geology, June 30-July 4, 1986, Cambridge, England. Information: Organising Committee, Sixth International Conference, Dept. of Earth Sciences, University of Cambridge, Downing St., Cambridge CB2 3EQ, England.

Geocongress '86, July 7-11, 1986, Johannesburg, South Africa. Pretoria, Republic of South Africa 0001.

Deep Seismic Reflection Profiling of the Continental Lithosphere, July 15-17, 1986, Cambridge, England. Information: BIRPS, Bullard Laboratories, Madingley Rise, Madingley Rd., Cambridge CB3 0EZ, England.

Circum-Pacific Energy and Mineral Resources Conference, August 17-22, 1986, Singapore. Information: Allen G. Hatley, c/o Gaffney, Cline & Assoc., P.O. Box 76309, Dallas, TX 75379.

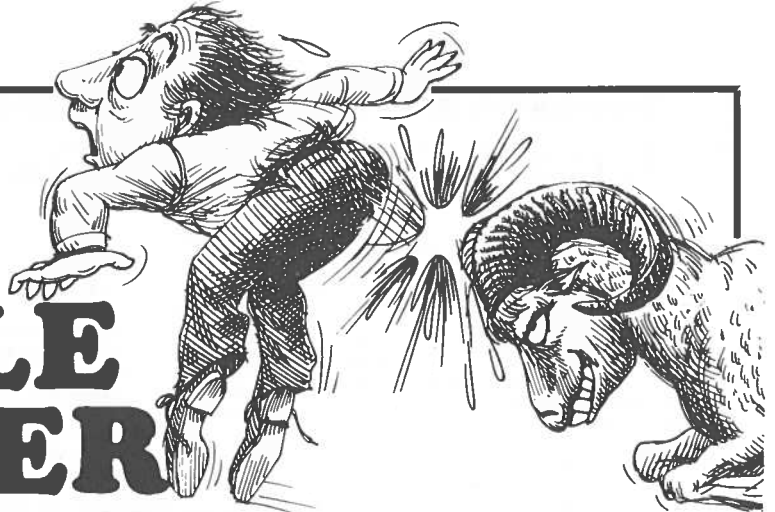
Third U.S. National Conference on Earthquake Engineering, August 24-28, 1986, Charleston, South Carolina. Information: James E. Beavers, Martin Marietta Energy Systems, Inc., Bldg. 9733-4, M/S 2, P.O. Box Y, Oak Ridge, TN 37831.

GSA 1986

Penrose Conference

Reefal Development in a Terrigenous Province, May 17-21, 1986, Veracruz, Mexico. Information: Paul R. Krutak, ARCO Exploration Co., P.O. Box 51408, Lafayette, LA 70505; (318) 264-4452.

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.

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ABSTRACTS DEADLINE JUNE 7

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