Wanted: GSA Members To Serve on Committees

The GSA Committee on Committees wants your help. As one of his duties, Vice-President Albert W. Bally 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 28 meeting in Phoenix, Arizona. 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 1987 consists of the following people: Chairman David E. Dunn, Natural Sciences & Mathematics, University of Texas at Dallas, Box 830688, Richardson, TX 75083-0688, (214) 690-2516; Priscilla C. Grew, Minnesota Geological Survey, 2642 University Avenue, St. Paul, MN 55114, (612) 373-3372; James Helwig, Schlumberger Research, Old Quarry Road, Ridgefield, CT 06877-4108, (203) 431-5249; David A. Stephenson, Dames & Moore, Suite 145, 7500 N. Dreamy Draw Drive, Phoenix, AZ 85020, (602) 371-1110; Bruce H. Wilkinson, Department of Geological Sciences, 1006 C.C. Little Building, University of Michigan, Ann Arbor, MI 48109-1063, (313) 764-1435.

This group is broadly based, both geographically and 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 and submitting your nomination on the form on page 83.

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 received at headquarters on the official one-page form will be forwarded to the committee members. DEADLINE: JUNE 15, 1987. Information requested on this form will assist the Committee on Committees with their recommendations for the 1988 committee vacancies. Please use one form per candidate. (Additional forms may be copied or requested from GSA headquarters.)

Listed below are the committees and the number of vacancies that will occur. Appointments will be made by the GSA Council at its meeting in Phoenix in October.

COMMITTEES AND QUALIFICATIONS

Day Medal (3 vacancies)
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."

Geology & Public Policy (2 vacancies)
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.

Honorary Fellows (2 vacancies)
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.

Membership (2 vacancies)
 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.

(continued on p. 82)
 Committees (continued from p. 81)

 Nominations (4 vacancies)
 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 Medal (2 vacancies)
 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.”

 Research Grants (2 vacancies)
 Evaluates research grant applications and selects grant
 recipients.
 Committee members must be able to attend the Spring
 meeting and should have experience in directing research projects
 and in evaluating research grant applications.

 Short Courses (1 vacancy)
 Will direct, advise, and develop the Society’s short course
 program, accept or reject proposals, recommend and implement
 guideline changes, and monitor the scientific quality of courses
 offered. Committee members should be familiar with short courses
 or have short-course teaching experience.

 Joint Technical Program Committee GSA Representatives-at-Large (2 vacancies)
 Supervises the review of abstracts for papers to be presented
 at the GSA annual meeting. Representatives-at-large should have
 expertise in petroleum geology or marine geology and oceanography.
 Subdisciplines not represented by any of the associated
 societies or GSA divisions are covered by the GSA representatives-at-
large.

 GSA Representative to the North American Commission on
 Stratigraphic Nomenclature (1 vacancy)
 Must be familiar with and have expertise in stratigraphic
 nomenclature.

 Nomination Form on p. 83

 DECADe OF NORTH AMERICAN GEOLOGY
 CENTENNIAL NEWS
 by Allison (Pete) Palmer

 Four DNAG Books Nearing Completion
 At the time of preparation of this text in late February,
 three Centennial Field Guides and one Centennial Special
 Volume are in the final production stages.

 Final page proofs for the Northeastern Section Field
 Guide have been completed, the index has been received,
 and the book is on its way to the printer. We anticipate
 publication by late April or early May.

 All chapters for the Cordilleran Section Field Guide are
 through copy editing and typesetting, and most galleys and
 dummy pages have been reviewed by the authors. The
 volume editor, Mason Hill, was in Boulder February 20–22
 to review the whole volume. We are making every effort to
 have this book completed and sent to the printers in time to
 be printed for the Cordilleran Section meeting at Hilo,
 Hawaii, in late May.

 Ninety-seven chapters for the Rocky Mountain Field
 Guide are through copy editing, most have been typeset,
 and the galleys and dummy pages have also been reviewed
 by the authors. The final three chapters are now being copy
 edited. This book is about a month behind the Cordilleran

 Section volume, but should be printed by early summer.

 All chapters for Geomorphic Systems of North America
 are through copy editing, and most galleys have been
 reviewed by the authors. All of the front matter is here. As
 soon as final page proofs are received and the index
 prepared, this will be ready for the printer. Publication is
 also expected by late spring or early summer.

 Progress on Other DNAG Volumes and Maps
 Chapters are beginning to appear in significant numbers
 for Groundwater Hydrology of North America and North
 America and Adjacent Oceans During the Last Deglaciation.
 The volume produced by the Geological Survey of
 Canada on Quaternary: Canada and Greenland is expected
 this summer in time for the International Union for Qua-
 ternary Research (INQUA) meetings in Canada. Other
 volumes are inching along.

 The Gravity and Magnetic Anomaly Maps for North
 America are in the final production process and on schedule
 to be completed and published some time this summer.

 Vol. 9, no. 4  GSA News & Information  April 1987
 GSA NEWS & INFORMATION (ISSN 0164-5854) is the monthly news-
 letter of The Geological Society of America, Inc., P.O. Box 9140, Boulder,
 Colorado 80301. Second-class postage rates paid at Boulder, Colorado and
 additional mailing office.

 Prepared from contributions from the staff and membership. Executive
 Director: F. Michael Wahl; Managing Editor: Faith Rogers; Associate Editor:
 Lee Gladish; Director of Communications: Nancy A. Reed; Production and
 Advertising Manager: James R. Clark; Marketing/Advertising Assistant: Ann
 H.F. Crawford; Assistant Production Manager: Meredith L. Larson; Pro-

 DECADE OF NORTH AMERICAN GEOLOGY  DECADE OF NORTH AMERICAN GEOLOGY  DECADE OF NORTH AMERICAN GEOLOGY

 DECADE OF NORTH AMERICAN GEOLOGY  DECADE OF NORTH AMERICAN GEOLOGY  DECADE OF NORTH AMERICAN GEOLOGY

 82  GSA NEWS & INFORMATION, April 1987
NOMINATION FOR GSA COMMITTEES FOR 1988

One form per candidate, please. Additional forms may be copied.

Name of candidate:
Address:
Phone:

Committee(s) being volunteered □ or nominated □ for (please check):
Committee(s):
Comment on special qualifications:

GSA Fellow ( ) Section affiliation:
GSA Member ( ) Division affiliation(s):

Candidate's year of birth:

Brief summary of education:

Brief summary of work experience (include scientific discipline, principal employer—e.g., mining industry, academic, USGS, etc.):

If you are nominating someone other than yourself to serve GSA and are not volunteering, please give your name, address, and phone number (please print):

DEADLINE: Please return this form to headquarters by June 15, 1987.

GSA NEWS & INFORMATION, April 1987
The Decade of North American Geology (DNAG)

NOW AVAILABLE!

TRANSECTS
Continent Ocean Transects
Each transect contains all or most of the following information: Free-air gravity and magnetic anomaly profiles, heat flow measurements, geologic cross sections with vertical exaggeration, multi-channel seismic reflection profiles, tectonic kindred cross section with vertical exaggeration, geologic map, stratigraphic diagram, an index map. All transects are on a scale of 1:500,000 and include a text and file envelope.

A-2: Kodiak to Kuskokwim, Alaska
TRA A-2 ............................................. Rolled $9.50; folded $7.50

B-1: Intermontane Belt (Skeena Mountains) to Insular Belt (Queen Charlotte Islands)
TRA B-1 ............................................. Rolled $17.00; folded $15.00

B-2: Juan de Fuca Plate to Alberta Plains
TRA B-2 ............................................. Rolled $17.00; folded $15.00

B-3: Juan de Fuca Spreading Ridge to Montana Thrust Belt
D.S. Cowan, C.J. Potier, 1985. Three sheets in color, each 50" x 40"
TRA B-3 ............................................. Rolled $26.30; folded $24.30

C-2: Central California Offshore to Colorado Plateau (San Francisco to Socorro)
J. Saleby and others, 1986. Two sheets in color, 40½" x 56"
TRA C-2 ............................................. Rolled $18.20; folded $16.20

C-3: Pacific Abyssal Plain to the Rio Grande Rift
TRA C-3 ............................................. Rolled $24.50; folded $22.50

D-1: Northern Appalachian: (West sheet) Grenville Province, Quebec, to Newfoundland. (East sheet) Rifted Margin Offshore Northeast Newfoundland
R.T. Haworth, H. Williams, C.E. Keen, 1985. Two sheets in color, each 56½" x 41"
TRA D-1 ............................................. Rolled $17.00; folded $15.00

D-2: Transform Margin South of Grand Banks: Offshore Eastern Canada
C.E. Keen, R.T. Haworth, 1985. One sheet in color, 38" x 57"
TRA D-2 ............................................. Rolled $9.50; folded $7.50

D-3: Riffled Continental Margin Off Nova Scotia: Offshore Eastern Canada
C.E. Keen, R.T. Haworth, 1985. One sheet in color, 38" x 57"
TRA D-3 ............................................. Rolled $9.50; folded $7.50

VOLUMES
Centennial Special Volumes
Four topically volumed prepared by four of GSA's discipline-oriented Divisions.

Centennial Field Guides
Six volumes prepared by each of the six sections of GSA describing outstanding geologic localities within that section.

Geology of North America
The centerpiece of the DNAG project, a modern synthesis of the geology and geophysics of North America and adjacent oceanic regions.

ADDITIONAL DNAG PROJECT PRODUCTS
Geologic time scales in four different formats
Package of 50, 8½" x 11", drilled for 3-ring binder: CTS-1 .......................... $8.00
1 sheet, 8½" x 11", plastic coated, drilled for 3-ring binder: CTS-2 .......................... 1.25
Waltz size, printed 2 sides, package of 25. CTS-3 .............. $6.00
Waltz size, 30" x 36", MC-50 .......................... 8.50

Check, money order (in U.S. funds), or most major credit cards accepted. Credit card users provide their full name, card name, card number, and expiration date. Colorado residents add sales tax. We pay surface postage on prepaid orders.

ORDER TODAY BY MAJOR CREDIT CARD
USE OUR CONVENIENT TOLL FREE NUMBER 1-800-GSA-1988 (outside Colorado only).
(303) 447-2020 (inside Colorado)
GSA, PUBLICATION SALES
PO Box 9140, Boulder, CO 80301

THE GEOLOGICAL SOCIETY OF AMERICA
1987 ANNUAL MEETING

PHOENIX CIVIC CENTER • PHOENIX, ARIZONA • OCTOBER 26-29, 1987

ABSTRACTS DUE JUNE 11
for abstract forms 303/447-8850

PREREGISTRATION DUE SEPTEMBER 25
for meeting information 303/447-2020

ASSOCIATED SOCIETIES MEETING WITH GSA: Cushman Foundation • National Association of Geology Teachers Geochemical Society • Paleontological Society • Geoscience Information Society • Society of Economic Geologists Mineralogical Society of America

GSA NEWS & INFORMATION, April 1987
1987 ANNUAL MEETING

GSA's first visit to Phoenix will be well remembered. Arizona has an abundance of popular geologic destinations, so when the location is put together with an offering of 33 field trips and 27 well-selected symposia, this is shaping up as one of GSA's largest and most unusual meetings.

Using Phoenix as a gateway, visitors can reach impressive natural wonders and unusual cultures that excel in their beauty, scale, and emotional impact. Arizona's boundaries encompass the Grand Canyon, Lake Powell, San Francisco Peaks, Indian reservations, the Southwestern art community of Sedona, Oak Creek Canyon, Monument Valley, Canyon de Chelly, the Petrified Forest and Painted Desert, mining towns such as Prescott, the Mogollon Rim, Saguaro National Monument, and Arizona-Sonora Desert Museum. If at all possible, plan to extend your visit through a weekend. This really is a grand opportunity at an exquisite time of year.

ALL-ARIZONA INVITATION

This is a cooperative effort that pools the resources and talents of geologists throughout the state of Arizona. Our General Chairman, William R. Dickinson, University of Arizona, has gathered support from every corner of the state. Although it is in the best tradition of cliches to praise the efforts of committees, please accept our word that this group has been singularly creative, diligent, and effective in bringing you an absolutely dynamite annual meeting.

PRELIMINARY ANNOUNCEMENT AND CALL FOR PAPERS

Technical sessions consist of both volunteered and invited papers. Invited papers were preorganized into symposia. Papers submitted on a volunteered basis will be reviewed and then selected by the Joint Technical Program Committee in July. The final schedule for the entire technical program will appear in the August registration issue of GSA News & Information.

VOLOUNTEERED PAPERS

Abstracts are usually volunteered on a general basis to one of the 35 disciplines listed on the abstract form. In addition, some abstracts will be submitted to specific theme sessions. Theme sessions are being tried in 1987 as a method of encouraging open submission to topical sessions. Papers will be reviewed simultaneously and then selected for either general or theme sessions. Papers not accepted for a theme session will continue through the process to be considered for a general session organized by discipline rather than topic.

Abstracts for all the technical sessions (both oral and poster presentations) must be submitted on 1987 abstract forms, available from the Abstracts Coordinator, GSA headquarters, 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: THURSDAY, JUNE 11, 1987

Normal length of presentation is 15 minutes, including time for discussion. Projection equipment consists of TWO 35-mm (2" × 2") projectors, one overhead projector, and two screens. Each poster session speaker will be provided with three backboards approximately 8' wide and 4' high. The boards are horizontal and free-standing in a 10' x 10' three-sided area. Poster presentations are scheduled in four-hour intervals.

THEME SESSIONS: NEW FOR PHOENIX 1987

To provide a timely and coherent forum for exciting ideas and topics, the Joint Technical Program Committee (JTPC) for the 1987 Phoenix meeting of the GSA invites you to use a new way of bringing together technical presentations: theme sessions. A theme session is a topically named technical session suggested to the JTPC by any individual or division or associated society of the Geological Society of America. The organizers provide to the JTPC a title, theme statement, and a list of abstracts that they wish to have considered for the theme session. The abstracts will be treated as volunteered rather than invited, and they are subject to the same rigorous review by outside reviewers as other volunteered abstracts. The JTPC, if it is able to accommodate the suggested theme session, may modify the list of abstracts to be included and may add other volunteered abstracts that seem appropriate.

If you would like to suggest a theme session for the 1987 national meeting, please follow these guidelines:
1. Send your proposed title, a one-page statement of why the topic is timely, the names and addresses of two persons who have agreed to act as chairpersons for the session if it is accepted, and a list of suggestions for abstracts and participants in the session to either JTCP Chair or Co-Chair by May 15, 1987.

Clement G. Chase J. Dale Nations
JTCP Chair JTCP Co-Chair
Department of Geosciences Department of Geology
University of Arizona Northern Arizona University
Tucson, Arizona 85721 Flagstaff, Arizona 86011
(602) 621-2417 (602) 523-7180

2. DO NOT SEND ABSTRACTS WITH THE PROPOSAL. Individual authors should send the abstracts directly to headquarters by the abstract deadline, June 11.

3. For each abstract you propose, please make sure that you list the exact abstract title and the names of all authors. The speaker's name should be first. This procedure will help the Abstracts Coordinator at GSA headquarters correctly identify the abstracts when they are submitted for consideration for this session.

4. By June 1, the JTCP Chairmen will decide which of the suggested theme sessions can be accommodated. The proposer will be notified immediately. Acceptance of the theme session will not imply acceptance of any of the proposed abstracts.

5. Again, please do not send the abstracts with the proposal. Ask each participant to write the title of the proposed theme session in pencil at the very bottom of the abstract form and to mail it directly to GSA by the abstracts deadline, June 11. The following will be the procedure after June 11:
   - All abstracts will be reviewed by the appropriate JTCP reviewer.
   - On July 17, abstracts will be selected by the 26-member JTCP, which is composed of representatives from each division and society. The appropriate representatives will determine the schedule of abstracts for the theme session. The proposer will be notified approximately one week afterward.
   - The theme sessions will appear in the meeting program identified by title and sponsoring individuals or organizations.

Although the themes will not have been published, due to the limited time we have for developing this new program for 1987, you may hear about a theme idea. If you wish to submit an abstract for inclusion in a theme session someone else has suggested, write the title of the theme session in pencil at the very bottom of your abstract form, and mail it to be received at GSA headquarters by the volunteered abstract deadline, June 11.

INVITED SYMPOSIA

Conveners for the following symposia have already chosen their speakers, who will submit invited abstracts directly to the convener. If you would like to talk with a convener directly, please call GSA for contact information.

2. Predicting Coal Quality by Means of Basin Analysis, Geophysical Data, and Geochemical Techniques. Coal Geology Division; Frederick Kuehlmeyer, New Mexico Institute of Mining and Technology.
3. Neotectonics in Earthquake Evaluation. Engineering Geology Division; Ellis Krinitzky, Waterways Experiment Station.
13. SYNCHRONOLOGY RESEARCH IN GEOLOGICAL SCIENCES. Mineralogical Society of America; Gordon Brown, Jr., Stanford University.
14. TIME, LIFE, AND THE ROCK RECORD: NEW IMPLICATIONS FOR TEACHING. National Association of Geology Teachers; Robert Norris, University of California, Santa Barbara.
15. Rates of Evolution in Fossil Lineages. Paleontological Society; Bjorn Malmgren, University of Uppsala.
16. PROTEROZOIC ORES OF THE SOUTHERN CORDILLERA. Society of Economic Geologists; Spencer Tite, University of Arizona.
18. GEOL OGY AND TECTONICS OF MEXICO. Joaquin Ruiz, University of Arizona.
21. TERTIARY EXTENSIONAL TECTONICS OF THE COLORADO RIVER REGION. Gary Axen, Northern Arizona University.
22. EARLY PROTEROZOIC CONTINENTAL ASSEMBLY OF SOUTHWESTERN NORTH AMERICA. Karl Karlstrom, Northern Arizona University.

24. Inception and Timing of Deformation in the Late Mesozoic and Early Cenozoic Cordilleran Fold-Thrust Belt. Tim Lawton, New Mexico State University.

25. Geology In China. B. Cark Burchfield, Massachusetts Institute of Technology.


FIELD TRIPS

Since Phoenix '87 will be the first time that an annual meeting of the Geological Society of America has been held in Arizona, it represents the first formal, comprehensive exposure of the geology of Arizona, as presented in the context and tradition of an annual GSA meeting. It is our hope that the range of choices, the quality of trip leadership, and the spectacular nature of the geology targeted will make your decision to participate easy, but your selection of trips difficult indeed. Late October/early November is the perfect time for field work in the southern Colorado Plateau and Basin and Range. Above and beyond the quality of exposure and the natural aesthetic appeal of the Southwest, the trips will provide a sense of the discovery and momentum that attends geological research in the Southwest, during this the close of the first century of GSA. How appropriate indeed that the 100th meeting of the Geological Society of America be held in the Grand Canyon state.

Editor's Note: Although 1987 will be GSA's 100th annual meeting, GSA's Centennial Celebration will be in 1988. GSA came into existence during the first meeting but did not celebrate its first anniversary until one year later. Consequently, the 100th meeting precedes the 100th anniversary.

Estimated costs are tentative and for planning purposes. They cover lodging, transportation, and some meals. Registration will begin August 1, 1987. Forms and additional information will be available in the August issue of GSA News & Information.

For further information contact George H. Davis (Chairman), Department of Geosciences, University of Arizona, Tucson, Arizona 85721, (602) 621-3592; Jon E. Spencer (Co-Chairman), Bureau of Geology/Mineral Technology, 845 N. Park Avenue, Tucson, Arizona 85719, (602) 621-7906; or the Field Trip Coordinator, GSA headquarters.

Co-Coordinators: Daniel J. Brennan, Oil and Gas Conservation Commission, State of Arizona, Phoenix; George E. Gehrels and Margaret Klute, University of Arizona, Tucson; Ronald C. Blakey and Larry T. Middleton, Northern Arizona University, Flagstaff; and Larry Fellows, Bureau of Geology & Mineral Technology, Tucson.

PREMEETING TRIPS


Archaeological Geology of Paleo-Indian Sites in Southeastern Arizona—Michael R. Waters, Texas A&M University, College Station, Texas; C. Vance Haynes, Jr., University of Arizona, Tucson, Arizona. Two days. Limit: 40 participants. Estimated cost: $122.

Paleoecology and Taphonomy of Recent to Pleistocene Intertidal Deposits, Gulf of California—Karl W. Flessa, University of Arizona, Tucson, Arizona; A. A. Ekdale, University of Utah, Salt Lake City, Utah. Three and one-half days. Limit: 30 participants. Estimated cost: $229.


Colorado River Float Trip To Examine the Geology of Eastern Grand Canyon, Arizona—Stanley S. Beus, Northern Arizona University, Flagstaff, Arizona; Ivo Lucchitta, USGS, Flagstaff, Arizona. Six and one-half days. Limit 24 participants. Estimated cost: $263.


Large-Scale Silicic Volcanism of the Jemez Mountains and Geology of the Adjacent Rio Grand Rift, New Mexico—Stephen Self and John Wolff, University of Texas, Arlington, Texas; Jamie Gardner and Fraser Goff, LANL, Los Alamos, New Mexico. Three days. Limit: 42 participants. Estimated cost: $259.


Coal Deposits and Facies Changes along the Southwestern Margin of the Late Cretaceous Seaway—Gretchen Roybal and Frank E. Kottowski, New Mexico Bureau of Mines and Resources, Albuquerque, New Mexico; Edward C. Beaumont, Albuquerque, New Mexico. Three and one-half days. Limit: 40 participants. Estimated cost: $320.


POSTMEETING TRIPS


Metamorphic Core Complexes, Mesozoic Thrusts, and Cenozoic Detachments: Old Woman Mountains—Chehuhuevi Mountains Transect, California—Arizona—Keith A. Howard, USGS, Menlo Park, California; Barbara E. John, University of California, Santa Barbara, California; Calvin F. Miller, Vanderbilt University, Nashville, Tennessee; Calvin James, University of Texas, El Paso, Texas. Four days. Limit: 50 participants. Estimated cost: $340.


Late Cenozoic Mammal Faunas and Magnetostratigraphy, Southeastern Arizona—Everett Lindsay, University of Arizona, Tucson, Arizona; Neil D. Opdyke, University of Florida, Gainesville, Florida; Noye M. Johnson, Dartmouth College, Hanover, New Hampshire. Two days. Limit: 40 participants. Estimated cost: $134.


SHORT COURSES

Fossil Prokaryotes and Protists. Sponsored by the Paleontological Society. Sunday, October 25, 8:00 a.m. to 5:00 p.m. For information: Jere H. Lips, Geology Department, University of California at Davis, Davis, CA 95616, (916) 752-2234.

Thermodynamic Modeling of Geological Materials: Minerals, Fluids, and Melts. Sponsored by the Mineralogical Society of America. Friday, October 23 through Sunday, October 25, 8:00 a.m. to 5:00 p.m. For information: Barbara Minich, MSA Business Office, 1625 I Street N.W., Suite 414, Washington, DC 20006, (202) 775-4344.

The following short courses will be sponsored by GSA. For further information, contact the Short Course Coordinator, GSA headquarters.

Fees will be approximately $75-100 for the first day, and $50-75 for the second day.
PREMEETING
Contaminant Hydrogeology. Saturday, October 24 and Sunday, October 25, 8:00 a.m. to 5:00 p.m. Frank W. Schwartz, University of Alberta; J. Leslie Smith, University of British Columbia.

Current Aspects of Basin Analysis and Sedimentary Geology. Sunday, October 25, 8:00 a.m. to 5:00 p.m. George deVries Klein, University of Illinois at Urbana.

Quantitative Sedimentary Basin Modeling. Saturday, October 24, 8:00 a.m. to 5:00 p.m. Charles L. Angevine and Paul L. Heller, University of Wyoming.

How To Do History of Geology. Sunday, October 25, 8:00 a.m. to 5:00 p.m. Mott T. Greene, University of Puget Sound; Michele Aldrich, American Association for the Advancement of Science; Cliff Nelson, U.S. Geological Survey.

Planetary Geology and Remote Sensing: Short Courses and Field Trips. Friday, October 23, Saturday, October 24, and Sunday, October 25, various times. Ronald Greeley, Arizona State University; Ray Arvidson, Washington University.

Site Characterization for High-Level Nuclear Waste Disposal. Saturday, October 24, and Sunday, October 25, 8:00 a.m. to 5:00 p.m. Richard G. Craig, Kent State University; Carol Hanlon, U.S. Department of Energy.

Paragraph on Microcomputers: Versatile Geological Tools. Sunday, October 25, 8:00 a.m. to 5:00 p.m. Carol A. Petersen, Computer Oriented Geological Society; R. Mark Maslyn, Colorado School of Mines.

POSTMEETING
Paleoseismology and Active Tectonics. Thursday, October 29, 7:00 p.m. to 9:00 p.m., Friday, October 30, 8:00 a.m. to 5:00 p.m., and Saturday, October 31, 8:00 a.m. to 3:00 p.m. Robert S. Yeats, Oregon State University; Clarence R. Allen and Kerry E. Sieh, California Institute of Technology.

WORKSHOPS
GeoRef Beginners’ Workshop. Sponsored by the Geoscience Information Society and GeoRef. Wednesday, October 28, 8:00 to 10:00 a.m. For information: Barbara Chappell, USGS Library, National Center, MS-951, 12201 Sunrise Valley Drive, Reston, VA 22092. (703) 860-6695.

GIS Data Base Forum. Sponsored by the Geoscience Information Society. Wednesday, October 28, 10:00 a.m. to 12:00 noon. For information: Barbara Pearson, Research Librarian, Exxon Production Research Company, P.O. Box 2189, Houston, TX 77252. (713) 965-4541.

GeoRef Advanced Workshop. Sponsored by the Geoscience Information Society and GeoRef. Wednesday, October 28, 1:00 to 5:00 p.m. For information: Joanne Lerud, Montana Tech Library, Butte, MT 59701. (406) 496-4283.

EXHIBITS
The 200-booth Geoscience Exhibit opens Monday, October 26, at 9:00 a.m. Exhibitors will display and demonstrate computer hardware and software, measurement equipment, maps, X-ray diffraction and other instruments, cameras, spectrometers, microscopes, microanalysis equipment, publications, field supplies, and camping equipment. Booth space in our expanding show will soon be sold out, so if you would like to become an exhibitor, please call the Exhibits Manager, GSA headquarters, immediately.

HIGHLIGHTS
Employment Service. For applicant and employer registration, see March GSA News & Information or contact the GSA Employment Service Coordinator.

Guest Program. Tcurs, golf, tennis, and a hospitality room will be available.

Welcoming Party. Sunday, October 25, 6:00–9:00 p.m.

All-GSA Awards Reception. Monday, October 26, 6:00–7:00 p.m., following the Presidential Address.

Alumni Night. Monday, October 26, 7:00–9:30 p.m.

Special Event Night. Wednesday, October 28.

TRAVEL AND LODGING
Accommodations. GSA has selected eleven official hotels, which offer special convention rates. A block of 600 rooms is reserved at the Hyatt Regency Phoenix, which, as headquarters, will host most of our social and business events. Hotel rates range from $28 to $80 for a single and from $30 to $90 for a double.

The Phoenix Civic Plaza will be the location of all technical sessions and exhibits. Approximately one-half of the rooms blocked in hotels are within easy walking distance of the Civic Plaza. Other rooms are a 20-minute drive. GSA will provide a convenient, all-day, free shuttle to these hotels.

Hotel forms will be available in the August issue of GSA News & Information. All housing will be processed in Phoenix by the official Housing Bureau.

Transportation. The major carriers into Phoenix are American, Continental, and United. Good fares also are available through basic service airlines such as American West and Southwest. Advance bookings are the best route to lowest fares, so check with your travel agent now. Everyone should be aware of cancellation penalties that often accompany the least-fare options. Official rental-car and travel agencies will be announced in the June issue of GSA News & Information.

Arizona Information. Abundant information and friendly people are available at the following contact numbers:

Arizona Office of Tourism
1480 E. Bethany Home Road
Phoenix, AZ 85014
(602) 255-3618

Grand Canyon National Park Lodges
P.O. Box 699
Grand Canyon Village
Grand Canyon, AZ 86023
(602) 638-2401

Phoenix and Valley of the Sun Convention and Visitors Bureau
505 North Second Street, Suite 300
Phoenix, AZ 85004
(602) 254-6500
(800) 221-5596

GSA NEWS & INFORMATION, April 1987
DOSCEC Solicits Site Proposals

DOSECC (Deep Observation and Sampling of the Earth's Continental Crust) is soliciting proposals requiring the use of the drill as a scientific tool for experiments into the dynamics of crustal processes. Categories are as follows: (1) Dedicated holes: proposals to drill a hole dedicated to scientific experiment into crustal processes. Two subcategories are (a) holes with TD of 1-5 km, and (b) holes with TD greater than 5 km. (2) Add-on experiments: proposals to deepen a hole drilled for other purposes in order to reach a target of interest, or to take samples or make measurements in such a hole.

DOSECC is developing a balanced long-term program of continental scientific drilling. The program includes holes in the categories noted above. While the program is developing, however, the opportunities for funding are greatest in categories 1 and 2 because funds are limited and drilling costs increase exponentially with depth.

DOSECC Inc. is a nonprofit corporation representing 36 member universities and operates the Continental Scientific Drilling part of the Continental Lithosphere Program for the National Science Foundation. DOSECC cooperates closely with the Department of Energy and the U.S. Geological Survey in designing and funding drilling experiments of mutual interest. The DOSECC scientific program is developed and guided by the Science Advisory Committee. Inquiries about proposal submission procedures should be addressed to Francis G. Strehl, DOSECC Science Advisory Committee, 7711 SW 103rd Ave., Gainesville, FL 32608, or call (904) 495-9330 or 495-9331.

South Carolina Requires Registration of Geologists

The South Carolina General Assembly on June 10, 1986, enacted legislation requiring all geologists engaged in the public practice of geology in South Carolina to be registered. Anyone in the geosciences who meets the academic and work requirements as set forth in the act (Act 507) is eligible for registration during the 12-month "grandfather" period ending June 10, 1987. Send your name and address for notification of forms package to South Carolina State Board of Registration for Geologists, 1213 Lady Street, Suite 20’, Columbia, SC 29201.

1988-1989 Competition Opens for Fulbright Scholar Awards

The Council for International Exchange of Scholars has announced the opening of competition for the 1988-1989 Fulbright grants in research and university lecturing abroad.

The awards for 1988-1989 include more than 300 grants in research and 700 grants in university lecturing for periods ranging from three months to a full academic year. There are openings in more than 100 countries and, in some instances, the opportunity for multi-country research is available. Fulbright awards are granted in virtually all disciplines, and scholars in all academic ranks are eligible to apply. Applications are also encouraged from retired faculty and independent scholars.

Benefits include round-trip travel for the grantee and, for most full-academic-year awards, one dependent; maintenance allowance to cover living costs of grantee and family; tuition allowance, in many countries, for school-age children; and book and baggage allowances.

The basic eligibility requirements for a Fulbright Award are U.S. citizenship; Ph.D. or comparable professional qualifications; university or college teaching experience; and, for selected assignments, proficiency in a foreign language. It should be noted that a new policy removes the limit of two Fulbright grants to a single scholar.

Application deadlines for the awards are June 15, 1987 (for Australasia, India, and Latin America, except lecturing awards to Mexico, Venezuela, and the Caribbean); September 15, 1987 (for Africa, Asia, Europe, the Middle East, and lecturing awards to Mexico, Venezuela, and the Caribbean); November 1, 1987 (for institutional proposals for the Scholar-in-Residence Program); January 1, 1988 (for Administrators’ Awards in Germany, Japan, and the United Kingdom; the Seminar in German Civilization; the NATO Research Fellowships, and the Spain Research Fellowships); and February 1, 1988 (for the France, Italy, and Germany Travel-Only Awards).

For more information and applications, call or write Council for International Exchange of Scholars, Eleven Dupont Circle N.W., Washington, DC 20036-1257; or telephone (202) 939-5401.
MEETINGS

(Asterisk indicates new or changed information)

1987
Workshop to Develop Scientific Drilling Initiatives in the South Atlantic and Adjacent Southern Ocean, April 6-8, 1987, Woods Hole, Massachusetts. Information: J. A. Austin, Jr., Inst. for Geophysics, University of Texas, 4920 North I.H. 35, Austin, TX 78751.

23rd Annual Symposium on Engineering Geology and Soils Engineering, April 6-9, 1987, Logan, Utah. Information: James McCalpin, Department of Geology, Utah State University, Logan, UT 84322/7058; (801) 790-1273.


Geologic Causes of Natural Radionuclide Anomalies, April 21-22, 1987, St. Louis, Missouri. Information: GEORAD Conference, Missouri Dept. of Natural Resources, P.O. Box 250, Rolla, MO 65401; (314) 364-1752.

9th Annual Geodynamics Symposium, Silver Anniversary Celebration of Plate Tectonics, April 22-24, 1987, College Station, Texas. Information: Secretary, Geodynamics Research Institute, Texas A&M University, College Station, TX 77843-3114; (409) 845-8477.


Society of Economic Paleontologists and Mineralogists Permian Basin Section Spring Field Conference, April 30-May 2, 1987. Information: Chris Chandler, P.O. Box 2990, Midland, TX 79702; (915) 675-0575.


Canadian Institute of Mining and Metallurgy 89th Annual Meeting, May 3-7, 1987, Toronto, Ontario. Information: Ivana Savic, CIM, 1130 Sherbrooke St. W., Suite 400, Montreal, Quebec H3A 2M8, Canada; (514) 842-3461.

Analysis of Naturally Fractured Reservoirs, May 4-8, 1987, Snowbird, Utah. Information: Jane Rider, AAPG Education Dept., P.O. Box 979, Tulsa, OK 74101-0979; (918) 584-2555.

10th Annual Spring Systematics Symposium, Evolutionary Ideas of Progress, May 9, 1987, Chicago, Illinois. Information: Matthew H. Nitecki, Field Museum of Natural History, Roosevelt Rd. at Lakeshore Dr., Chicago, IL 60605-2496; telephone (312) 922-9410.

Institute on Lake Superior Geology Annual Meeting, May 11-14, 1987, Wawa, Ontario. Information: E. D. Frey, P.O. Box 57, Wawa, Ontario P0S 1K0, Canada; (705) 856-4883.


Coastal Sediments '87, May 12-14, 1987, New Orleans, Louisiana. Information: Nicholas C. Kraus, USAE Waterways Experiment Station, Coastal Engineering Research Center, P.O. Box 631, Attn. WESCR-P, Vicksburg, MS 39180-0631.


MEETINGS (continued from p 92)


4th International Congress of the Regional Committee on Pacific Neogene Stratigraphy (affiliated with IUGS) and joint meeting of IGCP Project 246, July 29–31, 1987, Berkeley, California. Information: Charlotte Brunner, Chairperson of Organizing Committee, Dept. of Paleontology, University of California, Berkeley, CA 94720.


Society of Economic Paleontologists and Mineralogists Fourth Annual Midyear Meeting, August 20–23, 1987, Austin, Texas. Information: SEPM, P.O. Box 4756, Tulsa, OK 74159; (918) 743-9765.

XVI Pacific Science Congress, August 20–30, 1987, Seoul, Korea. Information: Choon Ho Park, XVI Pacific Science Congress, K.P.O. Box 1008, Seoul 110, Korea; telephone (2) 733-4478; Telex ILSKOR 23881.


International Congress on Geology, Structure, Mineralization, and Economics of the Pacific Rim, August 26–29, 1987, Queensland, Australia. Information: C/-Aus. IMM Congress Secretariat, P.O. Box 731, Toowoong 4066, Queensland, Australia.

Sixth International Congress on Rock Mechanics, August 31–September 3, 1987, Montreal, Quebec, Canada. Information: J. Franklin, Dept. of Earth Sciences, University of Waterloo, Waterloo, Ontario N2L 3G1, Canada.


American Association of Petroleum Geologists Rocky Mountain Section meeting, September 13–16, 1987, Boise, Idaho. Information: David H. Hawk, J.R. Simplot Co., 999 Main St., Boise, ID 83707; (208) 336-2110.


(continued on p. 94)
MEETINGS (continued from p. 93)


Fifth International Flint Symposium, September 27–October 2, 1987, Bordeaux, France. Information: 5th International Flint Symposium, Secretaire General, c/o Michel Lenoir, Institut du Quaternaire, Batiment de Geologie, Avenue des Facultes, Universite de Bordeaux-I, 33405 Talence Cedex, France.

*National Association of Geology Teachers Far Western Section Fall Conference, October 2–4, 1987, Hayward, California. Information: Elwood Brooks, Dept. Geological Sciences, California State University, Hayward, CA 94542; (415) 881-3486.


Society of Economic Paleontologists and Mineralogists Great Lakes Section Annual Meeting and fall field trip, October 9–11, 1987, southern Indiana. Information: J. R. Dodd, Dept. of Geology, Indiana University, Bloomington, IN 47405; (812) 335-5322 or 5581.

Geothermal Resources Council Annual Meeting, October 12–16, 1987, Sparks, Nevada. Information: Geothermal Resources Council, P.O. Box 1350, Davis, CA 95617-1356; (916) 758-2360.

Mathematical Methods in Geology, 16th Annual Geochautauqua, October 12–16, 1987, Pribiam, Czechoslovakia. Information: V. Nemec, Geoindustria, Geologicka 2, 152 00 Praha 5, Barrandov, Czechoslovakia; telephone (42-2) 590228 or (42-2) 7811801.


Society of Economic Paleontologists and Mineralogists Gulf Coast Section 8th Annual Research Conference, Paleontological Applications in Petroleum Exploration, December 6–9, 1987, Houston, Texas. Information: Charles L. McNulty, Dept. of Geology, University of Texas, UTA Box 19049, Arlington, TX 76019; (817) 273-2979.


GSA 1987

Section Meetings

Annual Meeting, October 26–29, Phoenix, Arizona

Penrose Conferences
Late Quaternary Sea Level: The Marine and Terrestrial Record, April 6–12, 1987, Ferry Reach, Bermuda. Information: James L. Carew, Dept. of Geology, College of Charleston, Charleston, SC 29424; (803) 792-5589.


Glacial Facies Models, May 3–8, 1987, Scarborough, Ontario. Information: Nicholas Eyles, Dept. of Geology, Scarborough Campus, University of Toronto, Scarborough, Ontario M1C 1A4, Canada; (416) 284-3336.


Paleoenvironmental Interpretation of Paleosols, September 11–17, 1987, Warm Springs Indian Reservation, Oregon. Information: Greg Retallack, Dept. of Geology, University of Oregon, Eugene, OR 97403-1277; (503) 866-4573.


Exposed Cross Sections through the Continental Crust, September 27–October 2, 1987, Killarney, Ontario, Canada. Information: David M. Fountain, Dept. of Geology & Geophysics, University of Wyoming, P.O. Box 3006, University Station, Laramie, WY 82071; (307) 766-6299.

1988

*Sixth Thematic Conference on Remote Sensing for Exploration Geology, March 28–31, 1988, Houston, Texas. Information: Thematic Conference, Environmental Research Institute of Michigan, P.O. Box 8618, Ann Arbor, MI 48107; (313) 994-1200, ext. 3382; Telex 4940991 EIRIMARB.


Case Histories in Geotechnical Engineering 2nd International Conference, June 1–5, 1988, St. Louis, Missouri. Information: (continued on p. 95)
CLASSIFIED ADVERTISING

Ids (or cancellations) for the June issue must reach the GSA office by April 15.
Contact Advertising Department (303) 447-2020.

Per line per issue: 1x $1.25, 3x $1.10, 6x $1.00, 12x $0.85

Situations Wanted: $3.00, Positions Open: $2.64, Consultants: $2.28, Services & Supplies: $2.04, Code number $2.75 extra.

16-line ads mailed to 25000 geologists and 2500 educational institutions. Geologists of all ranks, students, and educators interested in employment and opportunities in the professional and educational fields are encouraged to place these ads.

Consultants

Geologic consulting firms & individuals! Use this low cost GSA advertising medium to promote your services throughout the geologic community. More than 15,500 earth scientists from around the world, working in every discipline, read this news magazine every month. Talk to them! See above for rates, details and closing dates.

Services & Supplies

FIELD EQUIPMENT! For the lowest prices and our unbeatable guarantee of 100% satisfaction, check our listings of field hammers—Bruntion compasses—magnifiers—pouches—plus over 2000 other products for the geoscientist. Call today for a catalog, 1-800-742-2677. It's absolutely free! Geoscientists Resources, 2990 Anthony Road, Burlington, VT 27215.


CONFERENCE on Evolution of the Caribbean Region with objectives of defining scientific drilling initiatives for the Ocean Drilling Program Nov. 17-21, 1987 Runaway Bay, Jamaica Convener: R. C. Speed Dept. of Geological Sciences Northwestern University Evanston, IL 60201

This working conference will consider major problems of the origin of the Caribbean region: tectonics, water-masses, sedimentation, and magmatism. Participants will then develop a plan to attack problems by ODP drilling legs. The conference sponsor is Joint Oceanographic Institutions Inc., U. S. Science Advisory Committee. Funds from a JOI-USIAAC contract will be available to support travel and subsistence based on eligibility and need of applicant. Attendance is limited. Apply to R. Speed by June 1, 1987.

RESERVE THIS SPACE TO ADVERTISE TO 16,000 POTENTIAL CUSTOMERS. CALL US TODAY! (303) 447-2020

MEETINGS (continued from p. 94)


CORRECTION: Rocky Mountain Section Meeting

The price for the Annual Banquet of the Rocky Mountain Section Meeting, May 2-4, Boulder, Colorado, is $18, not $45 as given on the preregistration form printed in the February 1987 issue of GSA News & Information. Tickets for the banquet will be available at the registration desk in the University Memorial Center, University of Colorado, Friday, May 1 (the banquet is Saturday, May 2).

PEOPLE

GSA Fellow Lee C. Gerhard has been appointed director of the Kansas Geological Survey.

Fulbright grants for 1986-1987 have been awarded to Fellows Mohamed A. Gheith, Boston University; Erle Kauffman, University of Colorado; Robert D. Lawrence, Oregon State University; H. Gray Multer, Fairleigh Dickinson University; and Spencer R. Tittley, University of Arizona; and to Member Stanley N. Williams, Louisiana State University.
JUNE 11th IS ABSTRACTS DEADLINE

FOR THE ANNUAL MEETING IN PHOENIX

Abstracts must be typed on 1987 abstract forms, available from Abstracts Secretary, Geological Society of America, P.O. Box 9140, Boulder, CO 80301 [or call (303) 447-8850]. Volunteered abstracts should be mailed to the same address in time to arrive on or before June 11, 1987.

INSIDE

    Committee Nominations Wanted ........................................... p. 81
    1987 Annual Meeting ........................................................... p. 85