

GSA NEWS & INFORMATION

Monthly Newsletter of
The Geological Society of America

VOLUME 7, NUMBER 3

MARCH 1985

Board on Earth Sciences Aims at National Goals

Message to the Solid-Earth Science Community

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

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

The BES is now beginning its fourth year of operation, the previous three under the chairmanship of William R. Dickinson. Major accomplishments thus far include the 1983 National Research Council report *Opportunities for Research in the Geological Sciences*, which identified several new and exciting areas for scientific investigation (global seismic network plus portable digi-

tal seismic array; deep crustal reflection profiling; global positioning satellite; continental deep drilling; and physics and chemistry of geologic materials). All are interconnected and related to the continental lithosphere program. Studies in progress involve cross sections of American plate margins, magnetic and gravity maps of the nation and of North America, and continent-ocean geologic transects.

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

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

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

Board on Earth Sciences

(final year of service in parentheses)

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

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Lakewood, Colorado

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

Randolph W. Bromery (1987)
Department of Geology and Geography
University of Massachusetts

Lawrence M. Cathles (1987)
Chevron Oil Field Research Company

W. G. Ernst (1987)
Department of Earth and Space Sciences
University of California, Los Angeles

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

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

Melvin J. Hill (1985)
Gulf Oil Corporation

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

(continued from page 41)

John Imbrie (1986)
Department of Geological Sciences
Brown University

V. Rama Murthy (1985)
Department of Geology and Geophysics
University of Minnesota

Stephen C. Porter (1985)
Quaternary Research Center
University of Washington

C. Barry Raleigh (1986)
Lamont-Doherty Geological Observatory

J. William Schopf (1985)
Department of Earth & Space Sciences
University of California, Los Angeles

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Staff Director

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Clarence R. Allen (1985)
Seismological Laboratory
California Institute of Technology

Donald M. Hunten (1987)
Department of Planetary Sciences
University of Arizona

Bulletin Managing Editor Elected to AESE Board

Jean Thyfault, Managing Editor of the *GSA Bulletin*, has been elected to the Board of Directors of the Association of Earth Science Editors (AESE). The 300-member association has representatives from almost all of the major geological journals, earth science publishers, and state and federal geological surveys. It also has formed liaisons with other editorial groups in the biological sciences and with international editorial associations. The main object of these associations is to improve editing and publishing of scientific material.

Thyfault gives lectures supplemented by slides and graphic materials which demonstrate ways to improve publication illustrations. She is also writing a publication graphics manual in conjunction with Lev Ropes, one of the authors of the well-known

AAPG slides preparation manual. She is currently teaching English writing at the University of Colorado Division of Continuing Education.

Vol. 7, no. 3 GSA News & Information March 1985

GSA NEWS & INFORMATION (ISSN 0164-5854) is the monthly newsletter of The Geological Society of America, Inc., P.O. Box 9140, Boulder, Colorado 80301. Second-class postage rates paid at Boulder, Colorado, and at 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. Fogel; Assistant Production Manager: Meredith Larson; Production Assistant: June E. Thomas.

**Workshop
CONTINENTAL SCIENTIFIC DRILLING PROGRAM**

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

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

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

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



CENTENNIAL NEWS

By Allison R. (Pete) Palmer

More Canadian DNAG Volumes Organized

Two more of the volumes of *The Geology of North America* that are being produced by the Geological Survey of Canada under the general editorship of J. O. Wheeler are now organized; outlines for them are given below. Including these, 19 of the book outlines for this

synthesis series have now been published. Well over 800 dedicated authors are at work completing their chapter texts for these volumes, which will begin to appear in 1985.

The Cordilleran Orogen: Canada

- A. Introduction—H. Gabrielse, C. J. Yorath
- B. Tectonic Framework
 - 1. Plate-Tectonic Framework—H. Gabrielse, C. J. Yorath
 - 2. Tectonic Assemblages—H. Gabrielse, C. J. Yorath
 - 3. Geological Terranes—J.W.H. Monger
 - 4. Geological Belts—J. O. Wheeler
 - 5. Paleomagnetic Signatures—E. Irving, J. Wynne
 - 6. Paleontological Signatures—C. A. Ross, J.R.P. Ross, M. J. Orchard, H. W. Tipper
- C. Crustal Geophysics—J. F. Sweeney, R. Currie, R. M. Clowes
- D. Basement Rocks—R. R. Parrish
- E. Mid-Proterozoic Assemblages—J. D. Aitken
- F. Upper Proterozoic Assemblages—H. Gabrielse
- G. Lower Cambrian to Middle Devonian Assemblages
 - 1. Summary—H. Gabrielse
 - 2. Ancestral North America
 - a. Cambrian—W. H. Fritz
 - b. Ordovician and Silurian—B. S. Norford, M. P. Cecile
 - c. Devonian—A.E.H. Pedder, D. Morrow
 - 3. Allochthonous Terranes—R. B. Campbell, C. J. Dodds
- H. Upper Devonian to Middle Jurassic Assemblages
 - 1. Summary—S.J. Gordey, J.W.H. Monger
 - 2. Ancestral North America—S. J. Gordey, L. Hills, E. W. Bamber, D. W. Gibson, T. P. Poulton
 - 3. Allochthonous Terranes—J.W.H. Monger, H. W. Tipper, D. J. Tempelman-Kluit
- I. Upper Jurassic to Paleogene Assemblages
 - 1. Summary—C. J. Yorath
 - 2. Foredeeps—D. F. Stott, C. J. Yorath
 - 3. Successor Basins—H. Gabrielse, C. J. Yorath, R. M. Bustin, H. W. Tipper
 - 4. Volcanic Rocks—J. G. Souther, G. J. Woodsworth
- J. Neogene and Quaternary Assemblages—C. J. Yorath, J. G. Souther, W. H. Mathews
- K. Physiographic Evolution and Glaciation—J. J. Clague, W. H. Mathews
- L. Modern Plate-Tectonic Regime—R. P. Riddihough, R. D. Hyndman
- M. Volcanic Regimes—J. G. Souther
- N. Plutonic Rocks—R. L. Armstrong, J. A. Roddick, G. J. Woodsworth, R. G. Anderson, D. J. Tempelman-Kluit, H. Gabrielse

- O. Regional Metamorphism—H. J. Greenwood, G. J. Woodsworth, E. D. Ghent, P. B. Read
- P. Structural Styles—D. G. Cook, D. K. Norris, R. I. Thompson, M. E. McMechan, R. L. Brown, P. S. Simony, L. C. Struik, H. Gabrielse, J. L. Mansy, D. J. Tempelman-Kluit, C. J. Dodds, G. J. Woodsworth, J.W.H. Monger, C. J. Yorath, P. B. Read, S. P. Gordey
- Q. Tectonic Evolution and Comparative Tectonics—R. A. Price, J.W.H. Monger, H. Gabrielse
- R. Regional Metallogeny—K. M. Dawson, A. Panteleyev
- S. Energy and Groundwater Resources
 - 1. Oil and Gas—C. J. Yorath
 - 2. Coal—R. M. Bustin
 - 3. Uranium—R. T. Bell
 - 4. Geothermal—J. G. Souther
 - 5. Groundwater—E. C. Halstead
- T. Natural Hazards—J. J. Clague, L. E. Jackson
- U. Outstanding Problems—H. Gabrielse, C. J. Yorath

The Continental Margin: Eastern Canada

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

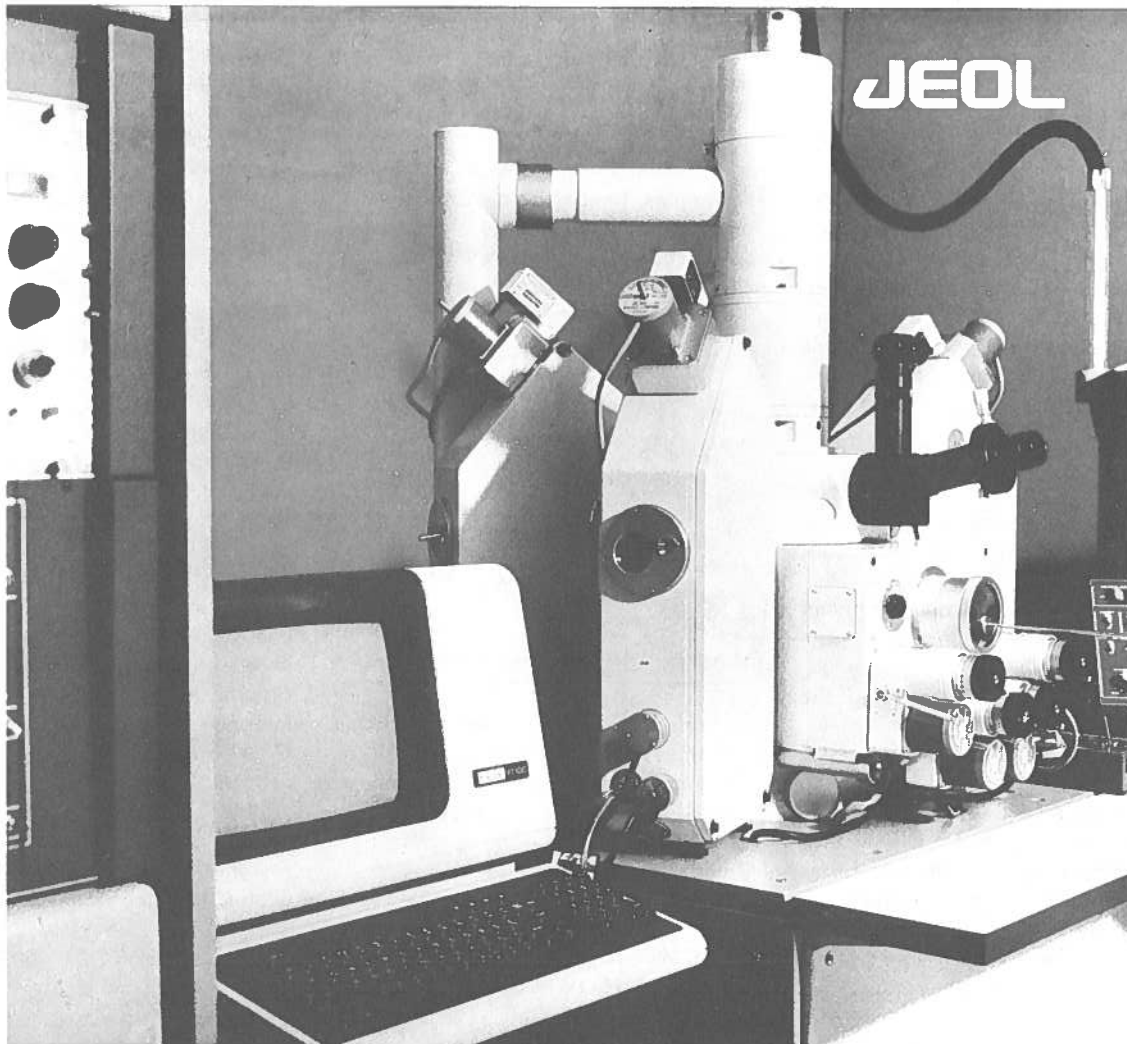
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- 5. Economic Geology—J. S. Bell, J. N. McMillan
- 6. Summary—J. S. Bell
- E. Mesozoic-Cenozoic (Coordinator: J. A. Wade)
 - 1. Introduction—J. A. Wade and others
 - 2. Georges Bank-Scotian Basin—J. A. Wade, P. Ascoli, J. S. Bell, E. H. Davies, R. D. Howie, L. F. Jansa, B. C. MacLean, G. L. Williams
 - 3. East Newfoundland Basin—A. C. Grant, D. McAlpine, E. H. Davies
 - 4. Labrador Shelf—N. J. McMillan, H. R. Balkwill
 - 5. Baffin Bay-Davis Strait—B. MacLean, S. P. Srivastava, G. L. Williams
 - 6. Summary—J. A. Wade, A. C. Grant, B. MacLean, N. J. McMillan
- F. Hydrocarbon Resources (Coordinator: G. R. Campbell)
 - 1. Introduction
 - 2. Oil and Gas Development
 - 3. Hydrocarbon Plays
 - 4. Hydrocarbon Potential
 - 5. Coal
 - 6. Hydrates
 - 7. Forecast of Future Exploration and Development
 - 8. Synthesis
- G. Evolution of the Western North Atlantic Ocean (Coordinators: F. M. Gradstein, L. F. Jansa, S. P. Srivastava)
 - 1. Oceanic Paleogeography
 - 2. Stratigraphic Events and Fossil Dynamics
 - 3. Lithofacies and Tectonics
- H. Geodynamics of Continental Margins (Coordinators: C. E. Keen, C. Beaumont)
 - 1. Introduction
 - 2. Observational Evidence of Margin Evolution
 - 3. Models
 - 4. Modeling as an Interactive Tool
 - 5. Possible Explanation for Other Margin Characteristics
 - 6. Thermal Histories and Maturation of Margin Sediments
 - 7. Transform Margins and Pull-apart Basins
 - 8. Geodynamics and Driving Forces of Margins
 - 9. Summary and Conclusions
- I. Quaternary (Coordinators: D.J.W. Piper and others)
 - 1. Introduction
 - 2. Chronologic Control
 - 3. Methods in Marine Quaternary
 - 4. Gross Geomorphological History of the Continental Shelf
 - 5. Gross Distribution of Quaternary Sediments
 - 6. Late Quaternary of the Scotian Margin
 - 7. Late Quaternary of Other Canadian Areas
 - 8. Synthesis of Late Quaternary Paleocyanography
 - 9. Glaciomarine Sedimentation Models
 - 10. Neotectonics
 - 11. Synthesis
- J. Modern Sedimentation Processes (Coordinator: C. L. Amos)
 - 1. Introduction—C. L. Amos, B. R. Pelletier, D.J.W. Piper
 - 2. Classification of Depositional Environments—C. L. Amos, J. V. Barrie, P. R. Hill, S. B. McCann, J.P.M. Syvitski
 - 3. Dynamics of Depositional Environments—C. L. Amos, J. V. Barrie, R. Boyd, D. E. Buckley, B. D'Anglejan, R. Davidson-Arnott, G. B. Fader, P. R. Hill, J.P.M. Syvitski, R. B. Taylor
 - 4. Summary of Major Advances—A. J. Bowen, S. De'Margerie, D. Huntley, P. McLaren, K. Moran, M. R. Risk
 - 5. Directions for the Future—A. J. Bowen
- K. Constraints to Development (Coordinator: C.F.M. Lewis)
 - 1. Present and Projected Development
 - 2. Processes and Conditions Affecting Development
 - 3. Engineering and Environmental Attributes; Coast, Shelf, Slope and Rise, Deep Sea
 - 4. Summary; Hazard Zonation
- L. Mineral Resources (Coordinator: P. B. Hale)
 - 1. Introduction
 - 2. Sea-Water Minerals
 - 3. Deep-Sea Minerals
 - 4. Shelf Minerals
 - 5. Future of Marine Mining Off Eastern and Arctic Canada
- M. Summary (Coordinators: M. J. Keen, G. L. Williams)

In Memoriam

Edgar H. Bailey Redwood City, California July 23, 1983	Horace R. Blank Bryan, Texas	Arthur C. Brookley Ventura, California November 10, 1984	Stephen W. Conway Houston, Texas
Earl F. Cook College Station, Texas October 11, 1983	Harold W. Hoots Menlo Park, California	Tom McGlothlin Hattiesburg, Mississippi May 19, 1984	Clark Millison Colorado Springs, Colorado December 26, 1984
Robert H. Mitchell New Concord, Ohio November 11, 1984	Horace G. Richards Philadelphia, Pennsylvania November 19, 1984	Neil B. Steuer Redmond, Oregon November 21, 1984	Margaret Ruth Todd Vineyard Haven, Massachusetts August 1984
J. Stewart Williams Logan, Utah July 19, 1984	Ralph H. Wilpolt Sun City, Arizona August 20, 1984	David R. Wones Blacksburg, Virginia	



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

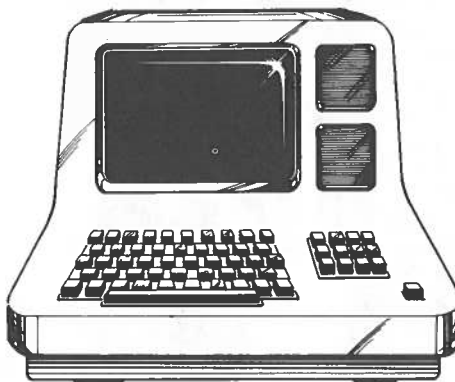
To register, complete the application form on the following page, prepare a one-to two-page resume, and mail it with your payment to the address given below. One-year listing for GSA Members and Student Associates in good standing: \$25, non-members: \$50.

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

Searching for a new geoscientist?

When was the last time you hired a new employee? Do you remember how much time and effort you wasted in your search for a qualified geoscientist? Let the GSA computerized search file make your job easier.

How does it work? Complete the Employer's Request for Earth Science Applicants Form on the following page. Remember to specify educational and professional experience requirements as well as the specialty



For additional information and submission of forms, please contact:
Clara Hodgson, Membership Coordinator
Geological Society of America
P.O. Box 9140
Boulder, CO 80301
(303) 447-2020

area or areas of expertise your applicant should have. The GSA computer will take it from there.

You will receive a printout that includes the applicants' names, addresses, phone numbers, areas of specialty, type of employment desired, degrees held, years of professional experience, and current employment status. In 1985, the cost of a printout of one or two specialty codes is \$125. (For example, in a recent job search for an analyst of inorganic materials, the employer requested the specialty codes of geochemistry and petrology.) Each additional specialty is \$45. A printout of the entire applicant listing in all specialties is available for \$350. If you have any questions about your personalized computerized search, GSA's Membership Department will assist you.

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

APPLICANT AND EMPLOYER FORMS ARE BACK-TO-BACK ON THE FOLLOWING PAGES ➔

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KNOWLEDGE OF FOREIGN LANGUAGES: French _____ ; German _____ ; Russian _____ ; Spanish _____ ; Other _____

ACADEMIC TRAINING

College or University	Degree (rec'd or expected)	Year	Major	Minor

Postgraduate work beyond highest degree in (field) _____ **Number of years** _____

SPECIALTY CODES

Select those that best describe your ability. Use codes in bold face only when other breakdowns are inadequate.

100. Economic Geology	224. stable isotopes	351. computer science	500. Petroleum Geology	630. Science Editing
101. coal geology	225. geochronology	352. statistical geology	501. exploration	650. Sedimentology
102. geothermal, etc.	250. Geomorphology	400. Mineralogy	502. subsurface stratigraphy	651. sedimentary processes
103. metallic deposits	251. Pleistocene geology	401. crystallography	520. Petrology	652. sedimentary environments
104. nonmetallic deposits	300. Geophysics	402. clay mineralogy	521. igneous	720. Stratigraphy
105. mining geology	301. seismic	410. Museum (curator)	522. metamorphic	750. Structural Geology
120. Engineering Geology	302. gravity/magnetics	420. Oceanography	523. sedimentary (clastic)	751. tectonics
150. Environmental Geology	303. seismicity	421. marine geology	524. sedimentary (carbonate)	752. tectonophysics
160. Public Education & Communication	304. paleomagnetism	422. coastal geology	525. experimental	753. rock mechanics
200. General Geology	320. Hydrogeology	450. Paleontology	550. Planetology	800. Volcanology
220. Geochemistry	321. hydrochemistry	451. invertebrate	600. Regional Geology	
221. organic	322. ground water	452. vertebrate	620. Remote Sensing	
222. high temperature	323. surface water	453. micropaleontology	621. photogeology	
223. low temperature	330. Library	454. paleobotany	622. photogrammetry	
	350. Mathematical Geology	455. paleoecology		

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

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

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I will attend the 19____ GSA Annual Meeting in _____

*** SIGNATURE (required)**

*** THESE ITEMS ARE ABSOLUTELY NECESSARY TO PROCESS THIS APPLICATION**

This application will be active for 1 year

1/85



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EMPLOYER'S REQUEST FOR EARTH SCIENCE APPLICANTS

(Please type or print legibly)

Name _____ Date _____

Organization _____

Mailing address _____

City _____ State _____ Zip code _____ Telephone number _____
(Area code) Number

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List the specialty code numbers that you wish to order, or check here if you want entire file of applicants in ALL specialties.

1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____

SPECIALTY CODES

100. Economic Geology	224. stable isotopes	351. computer science	500. Petroleum Geology	630. Science Editing
101. coal geology	225. geochronology	352. statistical geology	501. exploration	650. Sedimentology
102. geothermal, etc.	250. Geomorphology	400. Mineralogy	502. subsurface stratigraphy	651. sedimentary processes
103. metallic deposits	251. Pleistocene geology	401. crystallography	520. Petrology	652. sedimentary environments
104. nonmetallic deposits	300. Geophysics	402. clay mineralogy	521. igneous	720. Stratigraphy
105. mining geology	301. seismic	410. Museum (curator)	522. metamorphic	750. Structural Geology
120. Engineering Geology	302. gravity/magnetics	420. Oceanography	523. sedimentary (clastic)	751. tectonics
150. Environmental Geology	303. seismicity	421. marine geology	524. sedimentary (carbonate)	752. tectonophysics
160. Public Education & Communication	304. paleomagnetism	422. coastal geology	525. experimental	753. rock mechanics
200. General Geology	320. Hydrogeology	450. Paleontology	550. Planetology	800. Volcanology
220. Geochemistry	321. hydrochemistry	451. invertebrate	600. Regional Geology	
221. organic	322. ground water	452. vertebrate	620. Remote Sensing	
222. high temperature	323. surface water	453. micropaleontology	621. photogeology	
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Applicants seeking employment in:

- Academic
 Government
 Industry
 Other _____

Minimum degree required

- None
 B.A. or B.S.
 M.A. or M.S.
 Ph.D

Minimum professional experience

- None
 1-5 yrs.
 6-plus

Experience desired (yrs.)

	None	1-5	6-plus
Administrative	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exploration/Production	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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I am interested in interviewing applicants through the GSA Employment Service at the 19____ Annual Meeting in _____.

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1. I agree to use this service for valid recruiting purposes.
2. I agree that no placement charges will be assessed to any applicant participating in the GSA Employment Matching Service.

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Association for Women Geoscientists News

AWG Becomes AGI Member

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

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

National Association of Geology Teachers, and the Society of Mining Engineers.

AWG Reno Breakfast Features Speaker on Career Planning

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

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

MEETINGS

1985

North American Energy Markets Conference, March 4-5, 1985, Toronto, Ontario. Information: Shane Streifel, Canadian Energy Research Institute, 3512-33 St. N.W., Calgary, Alberta T2L 2A6, Canada; (403) 282-1231.

Prospectors and Developers Association 53rd Annual Convention, March 10-14, 1985, Toronto, Ontario, Canada. Information: Prospectors and Developers Association, Suite 420, 74 Victoria St., Toronto, Ontario, Canada M5C 2A5; (416) 362-1969.

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

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. Niteck-

ki, 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.

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.

(continued on page 50)

MEETINGS

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.

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-Skłodowska, Akademicka 19, 20-33 Lublin, Poland.

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.

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.

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 Cyclothem, Midcontinent SEPM Field Conference, October 11–

13, 1985, Lawrence, Kansas. Information: W. L. Watney, Kansas Geological Survey, 1930 Constant Ave.—Campus West, Lawrence, KS 66044; (913) 864-4991.

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

Northeastern Section, March 13–16, 1985, Lancaster, Pennsylvania. Information: William M. Jordan, Dept. Earth Sciences, Millersville University, Millersville, PA 17551; (717) 872-3289.

Southeastern Section, March 20–22, 1985, Knoxville, Tennessee. Information: Kenneth R. Walker, Dept. Geological Sciences, University of Tennessee, Knoxville, TN 37996; (615) 974-5499.

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, 1985, 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)

Membership Committee—March 3

Investments Committee—March 8

Publications Committee—March 9

Nominating Committee—March or April

Research Grants Committee—April 11–12

Executive Committee—May 1

Audit Committee—May 1

Section Secretaries—May 1

Council—May 2, 3

Joint Technical Program Committee—July 12

Annual Meeting—October 28–31, Orlando, Florida

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CLASSIFIED ADVERTISING

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

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Situations Wanted

PACKMULE, 21, geology B.S., graduate-school bound, willing to travel, experience over money, field or lab, summer 1985, communicates well, carries heavy loads. S. Ude, 1109 Huntleigh Dr., Naperville, IL 60540. 02 04

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PRIVATE LIBRARY OF GSA BULLETIN FOR SALE. Consists of: Volume years 1953 thru 1961 (4 single copies missing); 1964 thru 1973 (2 single copies missing). Copies are unbound, in excellent condition. Sell only as set, price is negotiable, and portion of proceeds will be donated to GSA Foundation. Write Code #1002 GSA News. 02 04

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1986 Meetings

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.)

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.

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. Information: Symposium Secretariat, S. 339, CSIR, P.O. Box 395, 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.

Second International Conference on Paleoceanography, September 7-12, 1986, Woods Hole, Massachusetts. Information: W. A. Berggren, Dept. of Geology & Geophysics, Woods Hole Oceanographic Institution, Woods Hole, MA 02543.

GSA 1986

Penrose Conference

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

Annual Meeting

November 10-13, San Antonio, Texas

A GENTLE REMINDER



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

ABSTRACTS DEADLINE JUNE 7

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