Toward Excellence in Quality of Presentations of Papers Given at GSA Meetings
by Walter D. Keller
University of Missouri—Columbia

Relatively few of the many papers presented at the last GSA Annual Meeting earned an "excellent" rating in an informal, subjective poll. The only qualification required for an excellent rating was simple, realistic, and straightforward, but effectively rigorous: a new or stimulating idea, which was remembered clearly, was taken away from the presentation by individual listeners. This accords with the original purpose for which GSA was formed: the exchange of geologic information.

A paper rated as "distressed" or "disaster," on the other hand, apparently had adequate technical geologic potential but was presented so ineffectively that listeners took away only a foggy uncertainty about what the speaker really was trying to tell.

It is the purpose of this note, supplementary to H. Edward Clifton’s excellent "Tips on Talks" (June 1985 News & Information), to analyze how the presentation by the speaker may make one paper a success or another paper a flop, and then to suggest techniques applicable in preparing papers that will be rated excellent.

Put Yourself in the Listener's Place

It is first necessary to determine for whom the paper should be a success. The unequivocal answer is that the real-life appraisers are the listeners—the customers in the learning transaction who are spending their time listening to the product in the hope of taking away something of value. Are there practical psychological and physical communication techniques by which the speaker can make his or her presentation more effective and useful to the listeners? The answer is that there are, as indicated below.

One of the foremost of these techniques is to prepare and present the talk from the psychological viewpoint of the audience, rather than delivering it from the psychological perspective of the speaker. The current buzz term is "to identify psychologically with the listener." The audience, in the role of receptors, typically is listening in a psychologically forward-looking direction to the topic; the minds of the listeners are receptive and resilient. The speaker, the sophisticated leader of the learning session, having worked on the problem for months or years, naturally looks backward at it. Furthermore, the speaker, having met difficulties as well as successes during the investigation, tends to be more sobered and matured than when the research was started. Therefore, to achieve the most productive results with the listeners, the speaker should recapture his or her early attitude of anticipation in investigation. In TV parlance, the speaker should telecast on the wave-length of the listeners, who are enthusiastically forward looking, rather than on his or her own vibrations, which look backward at the problem.

Concentrate on the Main Idea

Another, equally important, psychological maxim, inviolably applicable to the process of learning from a lecture, is that the learning mind can grasp, assimilate, and retain only a single, main idea during a 15- to 20-minute presentation. An additional supportive idea, if closely allied to the principal one, may also be grasped by the listeners, but more than that likely will be lost and the effort wasted (as many experienced teachers have found out the hard way). Therefore, it is the responsibility of the speaker, while preparing the talk, to distill and condense from all the ramifications and "goodies" (in the speaker’s memory of the (continued on p. 50)

Giving a paper at an upcoming GSA section meeting or the 1986 Annual Meeting? Read Walter Keller’s advice on how to improve your presentation.
Presentation of Papers at GSA Meetings
(continued from p. 49)
A research problem, a single main idea that can be learned and taken away. It is for this acquired idea that the paper and speaker will be remembered. The speaker, should spotlight the path for the listeners' minds to follow to the desired destination (idea). To emphasize a concept for your audience, tell 'em in the present tense; tell 'em in the future tense; tell 'em in the past tense.

Prepare and Practice
Eureka! Now that you, the speaker, have psychologically prepared the Word (à la P.D. Krynin) by which to convert the geological souls of your audience, you are ready to mount the podium. To continue effective communication with your listeners, use the following aids and procedures while making the actual presentation.

1. Rehearse your talk as many times as you will spend in minutes presenting it. You may have said parts of it before, in other talks, but those parts must be assembled and rehearsed for this talk.

2. Speak directly into the microphone and look at your audience, not at the floor or ceiling or out of the window. Speak from your diaphragm, following the advice of coaches of public speakers, the same way an opera star sings. That means to project your voice with the column of air in your lungs rather than to masticate and spit out short-ranged words impelled only by the tongue, cheeks, lips, and teeth. When projecting slides, speak loudly and very clearly, because your audience is then dependent solely on your voice for communication. By modulating your voice, you can make the presentation more informal, personally appealing, and therefore usually more convincing.

3. When projecting a graph, always identify audibly the information plotted on the axes before diving into the data on the slide. Remember that the listeners have not seen that slide before and must orient their frame of thinking before they can assimilate the data you are presenting. (Here you are working from the viewpoint of the consumer again.) Make your graphs simple; use bold lettering that shows major interpretations rather than comprehensive details.

4. When projecting a summary table of data, first tell the listeners what the subject and purpose of the data are before manipulating the numbers. Note the adjective "summary" in the preceding sentence; the slides presenting data for a talk should summarize the data but not overload the listeners' minds. Those comprehensive tables will be in the later published article; readers can take as much time as they need to analyze and assimilate. Your audience may already be gorged with too many indigestible facts from "distress" papers, so relieve and refresh your listeners with simple interpretative (nontabular), easily assimilable slides and summaries.

5. Although the preparation of special slides and systematizing the mode of presentation best tailored for your audience do, indeed, take much of your valuable time, you, the speaker, owe that much time to the audience. Consider that if you have 100 listeners present at your 20-minute talk, they will spend a total of 33 person-hours listening to you. Therefore it is not too much to expect from a speaker to put in only 4 person-hours, a half day, to prepare an "excellent," rewarding paper.

In summary: present your story from the viewpoint of the audience, speak clearly and audibly, and show simple and clear visual aids. Carefully formulate your main idea and then express that idea so your listeners will take it away in rewarded remembrance of your talk and of you as a speaker.

GEOLOGICAL SOCIETY OF AMERICA

THE TIME FROM
ACCEPTANCE TO PUBLICATION
OF PAPERS IS NOW
5 TO 6 MONTHS
THERE IS NO BACKLOG

Bulletin Editors
CENTENNIAL NEWS

Southeastern Centennial Field Guide On Its Way!

Congratulations to Tony Neatherly for completing the yeoman task of selecting appropriate sites, locating authors, badgering them to complete their site descriptions, and doing preliminary editing on 100 site descriptions for the first of the Centennial Field Guides to be submitted to GSA for publication. The project tied up Tony’s dining room at home, and many of his nights and weekends, for many months. The last six manuscripts were in Tony’s hands in the first week of January, and all manuscripts were in processing at GSA headquarters by the end of the month. The sites represent outstanding areas in the Appalachian Plateau, Valley and Ridge, Piedmont, and Coastal Plain in Virginia, West Virginia, Kentucky, Tennessee, the Carolinas, Louisiana, Mississippi, Alabama, Georgia, or Florida. The book should be available later this spring. Look for the announcements!

Final Coordinating Conferences

Three more Final Coordinating Conferences for volumes of The Geology of North America have been held since the first of the year: Surface Water Hydrology, North America and Adjacent Oceans Since the Last Deglaciation, and the Coal section of Economic Geology. Chapters in these volumes are now in the process of review and revision leading to publication in 1987.

Companies, Agencies, Consultants

More GSA Representatives Needed

Last year, GSA launched a new representative program, targeting companies, agencies, and consultants throughout the country. The purpose was to broaden GSA’s representation to include all employment sectors. The program was modeled on the successful campus representative program that was begun in 1979 and now includes 404 representatives at colleges and universities throughout North America.

We now have 33 company, 19 agency, and 20 consultant GSA representatives. However, we need more volunteers. Our goal is to designate a representative at all major company offices and governmental agencies throughout the country. For example, we hope to have a GSA representative for Exxon in Houston, for Chevron in Denver, for the Illinois State Geological Survey, for Dames & Moore in San Francisco, etc. We want to develop a similar liaison with GSA members who are self-employed and serve as consultants. They would represent major cities and geographic regions.

The representatives will serve as liaisons between GSA headquarters and their constituency in a particular city or region. They will provide information on the programs and benefits of the Society to other members in the region and explain to prospective members the benefits of joining GSA. Each representative will receive a notebook containing complete information on all programs, activities, publications, meetings, and other benefits of the Society. The notebook provides its membership. Examples include:

- Bulletin, Geology, and News & Information every month
- $25 discount for GSA’s Employment Service (applicants)
- $10 discount for registration fees for Penrose Conferences
- $10 reduction in student registration fees for GSA’s Annual Meeting
- Reduced registration fees for many GSA section meetings
- Reduced dues for spouse member ($26 for 1986)
- 25% discount on Member Standing Order Plan
- Special discounts on Decade of North American Geology publications
- Group term life insurance plan at reduced member rates
- Opportunity to participate in GSA’s specialized divisions and to receive their newsletters
- Opportunity to apply for student grants-in-aid in the Southwestern Section
- Discount for subscriptions to Engineering Geology Abstracts for Engineering Geology Division affiliates
- Discount for Avis car rentals
- 25% discount on many Geological Society of London publications
- Reduced subscription rate for publications of the American Institute of Physics

We need your help to extend this communications link between GSA headquarters and the membership of the Society. If you are a Member or Fellow (not Student Associate) and are interested in serving GSA as a representative for your company, agency, or group of the employment sector, please complete and return the form on page 52. Play an active role in the affairs of your Society, and be the first in your area to represent GSA!

We thank the following GSA representatives now serving to keep the program growing.

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(continued on p. 52)
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(continued)

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GSA NEWS & INFORMATION, March 1986

52
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c

Fulbright Scholar Competition Opens for 1987–1988

The Council for International Exchange of Scholars (CIES) has announced the opening of competition for the 1987-1988 Fulbright grants. CIES participates with the United States Information Agency (USIA) in administering the Fulbright Scholar Awards in research and university lecturing abroad. The awards for the 1987-1988 competition 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; 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 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.

Application deadlines for the awards are June 15, 1986 (for Australasia, India, Latin America, and the Caribbean); September 15, 1986 (for Africa, Asia, Europe, and the Middle East); November 1, 1986 (for institutional proposals for the Scholar-in-Residence Program); January 1, 1987 (for Administrators' Awards in Germany, Japan, and the United Kingdom; Seminar in German Civilization; and the NATO Research Fellowships); and February 1, 1987 (for Spain Research Fellowships, and France and Germany Travel-Only Awards).


Glossary of Geology Editors Seek New Terms and Definitions

Work is beginning on the third edition of the Glossary of Geology, and the editors, Robert L. Bates and Julia A. Jackson, request help identifying new terms and definitions, changes in usage, and changes to be made to the current edition. The third edition will incorporate modifications and growth of the geoscience vocabulary; the editors are especially interested in changes since 1979. In the new edition, the longer earth-science terms will be divided into syllables, and syllables to be accentuated will be marked.

Please send your contributions by April 1, 1986, to Julie Jackson, Editor, American Geological Institute, 4220 King Street, Alexandria, VA 22302.

MEMORIAL PREPRINTS

The following memorial preprints are now available, free of charge, by writing to GSA, P.O. Box 9140, Boulder, CO 80301.

Robert Clarence Morris, by Ellen Mullen Morris
Ruth Todd, by Martin A. Buzas and Doris Low
George Reed Downs, by Andrew G. Alpha
Roland Frank Beers, Sr., by Barbara Beers L. Trafford
Edwin Dinwidde McKee, by Raymond C. Gutschick

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Prepared from contributions from the staff and membership. Executive Director: F. Michael Wahl; Managing Editor: Faith Rogers; Associate Editors: 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 Assistants: Joan E. Manly and June E. Thomas.


GSA News & Information, March 1986
A NEW SYNTHESIS OF THE GEOLOGY OF NORTH AMERICA AND ADJACENT OCEANIC REGIONS—AND MORE!

The Decade of North American Geology (DNAG) project is sponsored by the Geological Society of America in celebration of its centennial decade, 1979-1988. Participating in the project are the U.S. Geological Survey, the Canadian Geological Survey, the Canadian Earth Physics Branch, and more than 1,000 authors and editors from the U.S., Canada, Mexico, and other countries.

DNAG’s goal is a suite of publications which include a 28-volume modern synthesis of the geology and geophysics of North America and adjacent oceanic regions, six volumes of field guides, four special topical volumes, 23 continent-ocean transects, and seven wall-size continent-scale geologic and geophysical maps.

OFFER EXTENDED!

Low-cost pre-press offers expire March 1, 1986.

Exceptionally low pre-press prices are now available under our special prepayment, installment payment, or standing order plans. But hurry! The best discount offers have been extended until May 1, 1986. GSA is now shipping these publication orders but you still have time to order and save. All orders placed before May 1 will be assured of receiving the complete DNAG series as they are published.

A comprehensive prospectus of these publications is now available. Write, or call our toll-free number for your copy if you haven’t received one.

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Outside Colorado call toll-free: 1-800-GSA-1988

The Geological Society of America

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1986 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.

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John C. Reed, Jr., Editor of Maps and Charts
Conferee: F. Michael Wahl, Executive Director

(continued on p. 56)
GSA Committees (continued from p. 55)

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

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GSA Representative to Inter-Society Advisory Group of
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Congressional Fellow Applications Due March 31

The Geological Society of America will sponsor a one-year
fellowship (September-August) for an earth scientist to serve on
the staff of a Congressional committee or a U.S. House or Senate
member, advising on a wide range of scientific issues related to
public policy. The purpose of this program is to provide an
opportunity to communicate earth science information to national
policy makers and to bring the benefits of that experience back to
the scientific community.

Requirements
Applicants should have an advanced degree in the earth
sciences, or equivalent professional experience, and be interested
in applying science to the solution of public problems. The
position will require the ability to work well with people from
diverse professional backgrounds and to be articulate and flexible
in fulfilling a broad range of assignments.

Stipend
The fellowship carries a stipend of $25,000 plus a limited
relocation and travel allowance.

Application Information
Interested candidates should inquire for further information
about the program and application procedures by writing or
calling Executive Director, Geological Society of America, P.O.
Box 9140, Boulder, CO 80301; (303) 447-2020.

Deadline for applications is March 31, 1986.
Penrose Conference on Synsedimentary Tectonics Scheduled for September

A GSA Penrose Conference, “Synsedimentary Tectonics,” will be held September 7-12, 1986, at the Tamarron Resort near Durango, Colorado. Conveners are William A. Thomas, Department of Geology, University of Alabama, University, Alabama 35486, and Donald L. Baars, Consultant, 29056 Histed Drive, Evergreen, Colorado 80439.

Synsedimentary tectonics can be approached in various ways; some of these—for example, synsedimentary tectonic sources of clastic sediment, synsedimentary basin subsidence, and synsedimentary melanges in accretionary complexes—are represented by recent syntheses. In contrast, the literature on synsedimentary tectonic history of intrabasinal structures on continental crust remains fragmentary, and this conference will be aimed at a comprehensive review of this important topic. Discussions will focus on tectonic history as it is reflected in the stratigraphic sedimentologic record of synsedimentary structures and will cover the complete spectrum of structures formed on continental crust, including structures associated with passive continental margins, foreland fold-thrust belts, foreland basins, intracratonic basins, and intracratonic fault systems.

The objectives of the conference are (1) to define appropriate criteria for recognition of synsedimentary structures; (2) to consider methods by which responses to synsedimentary structures may be differentiated from other sedimentologic variations; (3) to review the implications of synsedimentary structures for interpretation of structural history of various types of depositional basins; and (4) to consider the protracted history of recurrent synsedimentary structures in the context of regional tectonic evolution. The conveners believe that discussions by a variety of researchers in structural geology, stratigraphy, geophysics, sedimentology, petrology, and paleontology will lead to a much needed unifying synthesis of synsedimentary tectonic movement within depositional basins on continental crust.

The conference location in the high San Juan Mountains of southwestern Colorado presents an excellent opportunity to examine a variety of synsedimentary tectonic features of Paleozoic age. Classic relationships between sedimentary facies, unconformities, and recurrent basement faulting are well exposed. A one-day field trip in mid-conference will allow for the discussion of critical concepts of synsedimentary tectonics "on the outcrop."

To maximize interactions of disciplines and individual experience, the conference will include some formal presentations, and ample time will be devoted to open discussions. A comprehensive treatment of synsedimentary structures is long overdue, and the excellent conference facility and superb outcrops in the most beautiful alpine region of Colorado should be a stimulus to a productive week.

Prospective participants should send a letter of application stating (1) their experience in the topic, (2) areas in which they might expect to contribute, and (3) their expectations for participation to William A. Thomas, Department of Geology, Box 1945, University of Alabama, University, AL 35486. Applications are due by May 1, 1986. The registration fee, including food, lodging, and field trip, will be about $525. Limited support will be available for a few graduate students who are actively involved in research related to synsedimentary tectonics.

---

Application for participation in a Penrose Conference

Title of Penrose Conference

________________________________________________________

Your name and title

________________________________________________________

Organization

________________________________________________________

Mailing address

Street or P.O. Box

City and State

Zip Code

Telephone number

Area Code  Number

Field of interest

Please state briefly what your interest and experience have been with regard to the conference topic.
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 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 1986, 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's Annual Meeting (this year in San Antonio, Texas, November 10-13). 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

Looking for a new job?

Are you looking for a new position in the field of geology? The GSA Employment Service offers an economical way to find one. Potential employers use the service to find the qualified individuals they need.

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 November 10-13 for the 1986 GSA Annual Meeting in San Antonio, Texas.

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, nonmembers: $50.

Note: If you plan to interview at the GSA Annual Meeting, GSA must receive your material no later than August 25, 1986. If we receive your materials by August 25, 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 November. Good luck with your job search!

For additional information and submission of forms, please contact Clara Hodgson, Membership Coordinator, Geological Society of America, P.O. Box 9140, Boulder, CO 80302 (303) 447-2020

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Experimental Mineralogy and Geochemistry: Applications to Petrology and Ore Deposits, April 17-19, 1986, Nancy, France. Information: A. Weisbrod, E.N.S.G., B.P. 452, 54001 Nancy Cedex, France.


Texas A&M Geodynamics Research Program Symposium: Mesozoic and Cenozoic Plate Tectonic Reconstructions, April 23-25, 1986, College Station, Texas. Information: Geodynamics Research Program, Texas A&M University, College Station, TX 77843 3114; (409) 845-8477.


(continued on p. 61)
THE GEOLOGICAL SOCIETY OF AMERICA
3300 Penrose Place, P.O. Box 9140
Boulder, Colorado 80301
(303) 447-2020

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 _______

SPECIALTY CODES (see list below)
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. __________

POSITION DATA: What position(s) do you expect to fill?
In what area(s)? ____________________________________________________

Degree requirements __________________________ Number of positions available ______

SPECIALTY CODES
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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-pluses

Experience desired (yrs.):
None 1-5 6-pluses

Administrative ☐ Exploration/Production ☐ Field ☐ Research ☐ Teaching

Employment in:
☐ U.S. only ☐ U.S. with foreign assignments ☐ Either

Foreign Languages:
☐ French ☐ German ☐ Russian ☐ Other

☐ Not required

I am interested in interviewing applicants through the GSA Employment Service at the Annual Meeting in _______________

See attached sheet for current fee schedule.

Total fee enclosed __________ $ __________
or invoice requested __________ $ __________

Signature (required)

1/85
APPLICATION FOR EMPLOYMENT MATCHING SERVICE

Name (last name first)

Mailing Address

City________________________________________State________Zip Code________

Date Available________________________________ Telephone ( ) area code __________ Business __________ Home __________ Visa If not U.S. citizen, list visa

Members of GSA ONLY: Check here if you DO NOT WANT to have this number included in the Membership Directory

EXPERIENCE

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

*1_________2_________3_________

PRESENT SPECIALTY

Choose one from codes listed below

YEARS EXPERIENCE IN THIS SPECIALTY

PRESENT EMPLOYER

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

Administrative____ Exploration/Production____ Field____ Research____ Teaching____ Total geological working experience____

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

101. coal geology

102. geothermal, etc.

103. metallic deposits

104. nonmetallic deposits

105. mining geology

120. Engineering Geology

150. Environmental Geology

160. Public Education & Communication

200. General Geology

220. Geochemistry

221. organic

222. high temperature

223. low temperature

300. Geophysics

301. seismic

302. gravity/magnetics

303. seismicity

330. Library

350. Mathematical Geology

351. computer science

400. Mineralogy

401. crystallography

402. clay mineralogy

420. Oceano geography

421. marine geology

422. coastal geology

450. Paleontology

451. invertebrate

455. paleocoology

500. Petroleum Geology

501. exploration

502. subsurface

520. Petrology

521. igneous

522. metamorphic

524. sedimentary (carbonate)

525. experimental

550. Planetology

575. Quaternary Geology

600. Regional Geology

620. Remote Sensing

580. Science Editing

650. Sedimentology

651. sedimentary processes

652. sedimentary environments

720. Stratigraphy

750. Structural Geology

751. tectonics

752. tectonophysics

753. rock mechanics

800. Volcanology

*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.

☐ Check or Money Order

☐ MasterCard ☐ DVISA

☐ American Exp. ☐ Diners Club

☐ CHOICE ☐ Carte Bleue

☐ Barclay Card ☐ Access

☐ EuroCard ☐ Standard Bank Card

Card Number____

Mo Yr____

Expreses____

Signature____

(Required for credit card payment)

I agree to release GSA or their representatives from responsibility for errors that may occur in processing or distributing this data. I understand that GSA makes no guarantees of contact by an employer in this service. I agree to notify GSA Employment Service immediately of (1) change of address, (2) acceptance of a position.

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

1/88
MEETINGS (continued from p. 58)


49th Annual Northeastern Friends of the Pleistocene meeting and field trip, May 23-25, 1986, Fort Kent, Maine. Information: J. S. Kite, Dept. of Geology and Geography, University of West Virginia, Morgantown, WV 26506; (304) 293-5603.


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


27th U.S. Symposium on Rock Mechanics, June 23-25, 1986, University, Alabama. Information: Howard L. Hartman, Dept. of Mineral Engineering, University of Alabama, P.O. Box 1468, University, AL 35486; (205) 948-6578.


International Symposium on Natural and Man-made Hazards, August 3-9, 1986, Rimouski, Quebec, Canada. Information: Mohammed El-Sabih, Dept. d’océanographie, Université du Québec à Rimouski, 310, avenue des Ursulines, Rimouski, Québec G5L 3A1, Canada; (418) 724-1755; Telex 051-51623.


Third International Humic Substances Society Meeting, August 4-8, 1986, Oslo, Norway. Information: Egil Gjessing, Norwegian Institute for Water Research, P.O. Box 333, Blindern, Oslo 3, Norway, or Wesley L. Campbell, IHSS Standards & Reference Committee, 5293 Ward Rd., Arvada, CO 80002; (303) 236-3615.


Energy Resources in Asia, August 11-14, 1986, Hong Kong. Information: Asian Research Service, G.P.O. Box 2232, Hong Kong. (Abstracts due March 11, 1986.)


Friends of the Pleistocene, Midwest Cell, August 15-17, 1986, Lawrence, Kansas. Information: W. C. Johnson, Dept. Geography, University of Kansas, Lawrence, KS 66045; (913) 864-5143.

(continued on p. 62)
MEETINGS (continued from p. 61)


Iberian Terranes and Their Regional Correlation, September 1-6, 1986, Oviedo, Spain. Information: E. Martinez-Garcia, Dept. de Geotecnica, Facultad de Geologia, Universidad de Oviedo, 33005 Oviedo, Spain.


Geothermal Resources Council Annual Meeting, September 29-October 1, 1986, Palm Springs, California. Information: Geothermal Resources Council, P.O. Box 1350, Davis, CA 95617; (916) 758-2360.


GSA 1986 Penrose Conferences

Southern Oklahoma Aulacogen, March 23-28, 1986, Quartz Mountain State Park, Oklahoma. Information: M. Charles Gilbert, Dept. of Geology, Texas A&M University, College Station, TX 77843; (409) 845-2464 or 845-2451.


Miocene Reconstruction of Southern California, May 30-June 4, 1986, Oxnard, California. Information: Peter W. Weigand, Dept. of Geological Sciences, California State University, Northridge, CA 91330; (818) 885-3541.

Migmatites and Crustal Melting, June 8-13, 1986, Amherst, Massachusetts. Information: Robert J. Tracy, Dept. of Geology and Geophysics, Yale University, New Haven, CT 06511; (203) 436-3539.

Mechanisms of Reservoir Diagenesis and Their Geological Constraints, June 8-13, 1986, Cannes, France. Information: G. Michel Lalou, EXXON Production Research Company, P.O. Box 2189, Houston, TX 77252-2189; (713) 965-4688.

(continued)
HAZARDOUS WASTE GEOSCIENTIST. B.S. Earth Science, M.S. Geophysics, 4 years geology lab work, 2 years seismic system operation, 1.5 years U.S. N.R.C. waste management. Seeks position in environmental geoscience field in the New England area. Please reply to Ben at (617) 927-5163.

Positions Open

FLORIDA INTERNATIONAL UNIVERSITY
PALEONTOLOGIST/STRATIGRAPHER
The Department of Geology at Florida International University invites applications for a full-time tenure-earning position at the Assistant or Associate Professor level in Paleontology/Stratigraphy. The successful applicant will be expected to teach at the undergraduate and graduate levels, and must have demonstrated an ability to conduct high quality teaching and the potential to establish a vigorous research program. A completed Ph.D. is required and applicants should have a background in invertebrate or vertebrate paleontology.

Deadline for application: March 27th. Appointment will begin in August 1986. Send a resume, brief description of teaching and research interests, transcripts and three letters of recommendation to: Dr. Florentin Maurrasse, Department of Geology, Florida International University, Tamiami Campus, Miami, FL 33199. Florida International University is a member of the State University System and an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF EARTH SCIENCES
Tenure-track position starting September, 1986, pending budgetary approval. Teach upper-division engineering geology, groundwater/hydrology, possibly geophysics and surveying courses: intro sections in physical geology, conservation of resources and possibly geography.

Ph.D. desired and experience in engineering geology and groundwater; knowledge of resources or environmental geology desired. Evidence of excellence in teaching essential. Send statement of qualifications by March 15, 1986 to Dr. Brian Lowes, Chair, Department of Earth Sciences, Pacific Lutheran University, Tacoma, WA 98447. EOE.

Consultants

MEETING COORDINATORS: Western Experience offers coordination of Earth Science meetings of all types including field trips. If you need assistance call us at our new location. Phone (619) 722-0027. Address 2369 Carriage Circle, Ocean-side, CA 92056.

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GEOLOGY BOOKS! Check our listings for the latest arrivals in sedimentary petrology, structure, geochemistry, and mineralogy. Compare and save! All of our books are sold at discount prices. Call today for your free catalog: TOLL-FREE 1-800-742-2877. Remember, all of our books are backed by a guarantee of 100% satisfaction. Geoscience Resources, 2990 Anthony Road, Burlington, NC 27215.

WANTED: AAPG MEMOIR 15, Future Oil Prov- inces, E.A. Elliot, 1837 Yale, Dallas, TX 75206

GEOTECHNICAL TRANSLATIONS: Your global search for oil and mineral resources demands scientific accuracy. We are specialists who understand geologic & geophysical writing in Chinese, Russian, German, French, and Spanish. Geo- Technical Translations, PO Box 4026, Austin, TX 78765, (512) 474-4400. Available soon: Regional Petroleum Geology Studies of China.

MEETINGS

Penrose Conferences (continued)

Synsedimentary Tectonics, September 7-12, 1986, Durango, Colorado. Information: William A. Thomas, Dept. of Geology, University of Alabama, University, AL 35486; (205) 348-1880.


Sections


Annual Meeting, November 10-13, 1986, San Antonio, Texas

1987 Penrose Conference


GSA NEWS & INFORMATION, March 1986
June 13 is Abstracts Deadline for the Annual Meeting in San Antonio

Abstracts must be typed on 1986 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 13, 1986.

INSIDE __ __

Be a GSA Representative ...................................................... p. 51
1986 Committees ................................................................. p. 55
Employment Service ............................................................. p. 58

THE GEOLOGICAL SOCIETY OF AMERICA
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