The theme for the 1995 Annual Meeting is Bridging the Gulf. This theme has several meanings. In particular, we will draw attention to the Gulf of Mexico–Caribbean, and the surrounding American continents, bridging the knowledge gap that exists across a region divided by political boundaries and language but sharing a common geologic framework. Bridging the Gulf also addresses the need to develop a closer link between technology and the science of geology and to educate the public on issues critical to the development of intelligent policies on the environment and geologic hazards. We also hope to bridge the gap between the past and the future with both a retrospection on the past 25 years of plate tectonics and a look at the future as geology responds to society’s needs. Finally, we view the city of New Orleans, the Mississippi River and its delta, and the Gulf Coast as a laboratory where the long-term effects of humans on the environment can be examined.

NEW ORLEANS: The Crescent City—New Orleans is nestled on the inside of a south-looping meander of the Mississippi River. The early city (Vieux Carré or French Quarter) was built on the Mississippi’s natural levee, and then expanded up, down, and across the river, and later northward through the swamp to the south shore of Lake Pontchartrain. New Orleans is especially noted for its cuisine and music, both of which have been influenced by the French, Spanish, African, English, and Native Americans who have made the city and its surrounding waterways their home. Come this November and discover the grace and charm of America’s most unusual city.

Bill Craig
General Chairman

GSA DIVISIONS
Archaeological Geology • Coal Geology • Engineering Geology • Geophysics • Geoscience Education • History of Geology • Hydrogeology • International • Planetary Geology • Quaternary Geology and Geomorphology • Sedimentary Geology • Structural Geology and Tectonics

ASSOCIATED SOCIETIES
Association for Women Geoscientists • Association of American State Geologists • Association of Geoscientists for International Development • Cushman Foundation • Geohistorical Society • Geoscience Information Society • Mineralogical Society of America • National Association for Black Geologists and Geophysicists • National Association of Geology Teachers • National Earth Science Teachers Association • Paleontological Research Institute • Paleontological Society • Sigma Gamma Epsilon • Society of Economic Geologists • Society of Vertebrate Paleontology
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1995 ANNUAL MEETING COMMITTEE

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TECHNICAL PROGRAM

Call for Papers and Announcement of Symposia and Theme Sessions

ABSTRACT SUBMITTAL GUIDELINES

1995 ABSTRACT FORMS AVAILABLE FROM:
- Abstract Coordinator at GSA headquarters
- Conveners of symposia
- Advocates of theme sessions
- Geoscience departments of most colleges and universities
- Main federal and state survey offices

PRESENTATION FORMATS

- Symposia
- Thematic Sessions
- Discipline Sessions

PRESENTATION MODES

Oral Mode—The normal length of an oral presentation is 15 minutes, including time for questions.

Invited Papers (Symposia)

Abstracts are to be sent directly to the convener.

The day and time shown after each symposium are tentative.

S1. GSA Keynote Symposium: The Mississippi River—Control and Consequences.
Monday, November 6, 6:00 to 7:00 p.m. 1995 GSA Annual Meeting Committee, Shea Penland, Louisiana State University; S. Jeffress Williams, U.S. Geological Survey, Reston.


S3. 25+ Years of Plate Tectonics: Where Do We Go from Here?
Wednesday, November 8, morning. 1995 GSA Annual Meeting Committee, Laura Serna and Terry Pavli, University of New Orleans.

S4. Geology and Tectonics of the Caribbean Region.
Tuesday, November 7, morning. International Division, A. F. A. L. S. and Virginia Sisson, Rice University; Grenville Draper, Florida International University.

S5. Products and Processes of Continental Extension.
Monday, November 6, all day. Structural Geology and Tectonics Division, John M. Byers, University of Utah; John W. Geissman, University of New Mexico.

S6. Third International Symposium on the Cenozoic Tectonics and Volcanism of Mexico.
Tuesday, November 7, afternoon. 1995 GSA Annual Meeting Committee, Jorge Nieto-Olguin, Universidad Nacional Autonoma de Mexico.

Wednesday, November 8, afternoon. Quaternary Geology and Geomorphology Division and Engineering Geology Division, S. Jeffress Williams, U.S. Geological Survey, Reston; Shea Penland, Louisiana State University.

S8. The Mississippi River as a Sedimentary System.
Tuesday, November 7, afternoon. Sedimentary Geology Division, Whitney J. Autin, Louisiana State University; Andres Alan, University of California.

Wednesday, November 8, morning. Hydrogeology Division and 1995 GSA Annual Meeting Committee, Donald Siegel, Syracuse University, Karen Prestegaard, University of Maryland.


S11. Coastal Settings of Peat Formation and Their Stratigraphic Record: Ecosystems, Allochtonies, and Depositions.
Monday, November 6, afternoon. Coal Geology Division, John H. Calder, Nova Scotia Department of Natural Resources.

Tuesday, November 7, morning. Planetary Geology Division, Larry S. Crumpler, Brown University.


S14. Frontiers in Geochemistry.

S15. Weathering Rates of Sicate Minerals.

S16. The Danu Legacy, a Century Later.
Tuesday, November 7, all day. History of Geology Division, Robert N. Ginsburg, University of Miami; RMSAS, Ellis Yochelson, Smithsonian Institution.

Tuesday, November 7, morning. Paleontological Society, Steve D’Hondt, University of Rhode Island, School of Oceanography.

Sunday, November 5, all day. Geochronology Society, Organic Geochemistry Division, Stephen A. Macko, University of Virginia; Michael H. Engel, University of Oklahoma; Kate Freeman, Pennsylvania State University.

Monday, November 6, morning. Cushman Foundation, Ronald Martin, University of Delaware; Susan Goldstein, University of Georgia.

GSA TODAY, June 1995  Abstract Forms and Information: (303) 447-2020, ext. 161 or 1-800-472-1988 115


Volunteered Papers

This format includes all abstracts that are not specifically invited for a symposium. Each paper will have a minimum of three reviews. Two types of sessions are available:

1. DISCIPLINE SESSIONS

Papers are submitted to ONE scientific discipline. The Joint Technical Program Committee (JTPC) representatives organize the papers in sessions focused on this discipline, for example, hydrogeology.

2. THEME SESSIONS

Papers are submitted to a specific pre-announced title and to ONE scientific category. Theme sessions are interdisciplinary; each theme may have as many as three categories from which authors may choose ONE. After each theme description below, the categories are identified by name and number as they appear on the 1995 Abstract Form.

**THEME SUBMITTALS INCLUDE:**

- **Event**
- **Theme number** T18
- **Key words of the theme title**
- **One category**
- **Mode for the session**
- **Example** T18 Methods for Quantifying Unsaturated Permeability Environmental Geology—#6 on abstract form Poster

Role of theme advocate

Each theme session has been proposed by an advocate. Advocates may not invite speakers; however, advocates may encourage colleagues to submit abstracts, with the understanding that there is no guarantee of acceptance.

All abstracts will be evaluated by three JTPC reviewers in the discipline for which they are submitted. During the August 11–12 JTPC meeting, the designated JTPC representative (in consultation with the theme advocate) will organize theme sessions from the abstracts approved for presentation.

Theme Topics

- **Example**
- **T18** Methods for Quantifying Unsaturated Permeability
- **T25** Assessing Teaching and Learning
- **T27** Dynamics of Aquiferous and Hydrocarbon Fluids in Sedimentary Basins
- **T29** Geology and Tectonics of the Caribbean
- **T30** Geology and Tectonics of the Caribbean Region
- **T31** Geology and Tectonics of the Caribbean Region

Please check the correct mode of the theme session—poster or oral. If the abstract is submitted inaccurately, the abstract will be transferred automatically to a discipline session.


GSA Software Fair

A Software Fair is being organized for the New Orleans meeting to promote the use of computers in all fields of geology. The Software Fair will provide authors a new forum to display their own software and give participants an opportunity to learn about numerous software applications that are available. Computers will be placed near the registration and poster session areas. If there is sufficient interest, the software demonstrations will be organized each day so that they are broadly related to concurrent poster topics. Interested authors of freeware, public domain, shareware, and commercial packages (noncorporate) are invited to contact: Skip Simmons, University of New Orleans, Dept. of Geology and Geophysics, 2000 Lakeshore Drive, New Orleans, LA 70148; (504) 286-6791; fax 504-286-7396; E-mail: wbses@geology.uno.edu for information and application form. Information and an on-line application form are available at GSA's World Wide Web site. The URL is http://www.aescon.com/geoscience/meetings/95/softfair.html. The deadline for receipt of completed applications is September 1. Applicants will receive details about the final organization of the Software Fair by September 15.

PROFESSIONAL HORIZONS

GSA-Sponsored Continuing Education Courses

Would you like to learn something new, brush up on the latest, or refresh your knowledge of the basics? GSA's continuing education courses will be held immediately before the Annual Meeting in New Orleans and are open to members and nonmembers.

A course fee of $15 is required if you are not attending the meeting. This fee may be applied to a full meeting registration if you decide to attend. Pre-registration is recommended; on-site is $50 additional. You may register for GSA courses on the Annual Meeting Preregistration Form. All GSA-sponsored Continuing Education Courses will be held at the Ernest N. Morial Convention Center.

PREREGREISTRATION DEADLINE: SEPTEMBER 29
Cancellation Deadline: October 6
For Information Contact
Edna Collis, (303) 447-2020, ext. 134
GSA Continuing Education Coordinator

Contaminant Organic Geochemistry.
Saturday, November 4, 8:00 a.m. to 5:00 p.m.
Co-sponsored by Hydrogeology Division.

ATTENTION STUDENTS: The Hydrogeology Division will SUBSIDIZE THE FIRST STUDENT WHO IS A VALID DIVISION MEMBER. The student MUST PAY THE FULL COURSE FEE when registering, but will be reimbursed $50 after the GSA meeting by the Hydrogeology Division.

This course will provide an introduction to contaminant organic geochemistry and an understanding of the relative importance of factors that affect the transport of organic contaminants in the subsurface. Participants will receive reference materials that will assist them in their own research or site evaluations.
2 Fundamentals of Project Management for Environmental Professionals—Bruno C. Vendeville, Martha O. Withjack, Gloria Eisenstadt, New Orleans; B.A., Boston College.

Limit: 45. CEUs: 1.6. Fee: $220, students $200; their environmental knowledge will benefit from this course. Some experience in performing environmental or geologic assessments would also be helpful, but it is not required. Recommended Background—Attendees should have a basic knowledge of general environmental science and project experience. This course is valuable for experienced and aspiring project managers, project team members, and their managers.

Who Should Attend—Anyone engaged in project-oriented activities in his/her profession, individuals who are newcomers to the field of soil and ground-water remediation, scientists who are interested in entering the environmental field or those who wish to broaden their environmental knowledge will benefit from this course.

Recommendation for Successful Remediation—This course is intended for geologists, hydrogeologists, geotechnical engineers, and environmental scientists who are newcomers to the field of soil and ground-water remediation. Scientists who are interested in entering the environmental field or those who wish to broaden their environmental knowledge will benefit from the course.

FEE when registering, but will be reimbursed $50 after the GSA meeting by the Engineering Geology Division. The costs associated with remediating contaminated sites can be staggering. However, technical approaches to a contamination problem can be implemented. This course will emphasize a practical approach, covering technical requirements and procedures, consultant responsibilities, the client-consultant relationship, the consultant-regulatory agency relationship, legal considerations, design criteria, and the number of years needed to finalize remediation expenditures and meet regulatory goals.

Who Should Attend—This course is intended for geologists, hydrogeologists, engineering geologists, engineers, and environmental scientists who are newcomers to the field of soil and ground-water remediation. Scientists who are interested in entering the environmental field or those who wish to broaden their environmental knowledge will benefit from this course.

Recommended Background—Attendees should have a degree in geology, hydrogeology, engineering, or environmental science. The course presents basic concepts, ideas, and procedures related to site remediation. It is not intended for those professionals who are experienced in the environmental field and remediation design and implementation.

What You Will Learn—Attendees will learn the fundamentals of contaminant hydrogeology; fate and transport of contaminants in soil and ground water; soil and ground-water clean-up technologies; how to screen, select, and implement the proper clean-up technology; preparation of remediation action plans; remediation system designs and specifications; and regulation and coordination prior to and during site remediation. Case studies will be presented.

Faculty: Jeffrey L. Peterson, Professor of Hydrogeology, University of British Columbia; Ph.D., University of California, Berkeley; B.S., Valparaiso University.

Limit: 40. CEUs: 1.6. Fee: $300, students $280; includes course manual and lunches.

5 Multidimensional Computer Visualization—This course will survey the current use of computer visualization in the geosciences, focusing on three-dimensional data sets on Unix workstations using low-cost tools such as the Linux and Macintosh software. This software will also be well represented. A variety of software will be demonstrated, displaying data from a variety of fields, including seismology, contaminant hydrology, geomorphology, and air-quality modeling. Visualization of the Laboratory, and laboratory- and field-collected data will be addressed. The course will cover the entire visualization process: selection of appropriate applications and computers for visualization, planning, data collection, organizing data, creating 3-D images, highlighting significant features and generating output in a useful form. This will be a lecture course.

Who Should Attend—The intended audience includes professionals and graduate students who want to use three-dimensional visualization to address geoscientific problems.

Recommended Background—Anyone interested in producing, using, analyzing, and/or criticizing scientific data.

What You Will Learn—Attendees will learn the range of applicability of earth science visualization, specific strategies for applying computer visualization to their own work, appreciation of the kind and extent of data and the level of effort required to create a successful visualization, and principal sources of commercial and noncommercial visualization software.

Faculty: Paul J. Morin, Visualization Programmer, Gibson Computational Hydrogeology Laboratory, University of Minnesota; Mark McBride, Senior Hydrogeologist, Dames & Moore, Bethesda, Md.; University of Minnesota; and David R. Gillespie, Staff Geologist, Desert Research Institute, Water Resources Center, Las Vegas, Nev.; M.S., University of California, Berkeley.

Limit: 40. CEUs: 1.6. Fee: $300, students $280; includes course manual and lunches.

6 Phase I Environmental Site Assessments—Saturday, November 4 and Sunday, November 5, 8:00 a.m. to 5:00 p.m. Cosponsored by Engineering Geology Division.

ATTENTION STUDENTS: The Engineering Geology Division will SUBSIDIZE THE FIRST FIVE STUDENTS WHO ARE VALID DIVISION MEMBERS. Students MUST PAY THE FULL COURSE FEE when registering, but will be reimbursed $50 after the GSA meeting by the Engineering Geology Division. This course will cover all aspects of performing a Phase I Environmental Site Assessment, including the purposes and objectives of the investigation, a discussion of all appropriate environmental regulations, appropriate sources of information and people to conduct the assessment, and environmental liability. We will review the regulatory basis for the assessments and cover the resources available to assist in the performance of the assessments. How to attend—This course is endorsed by the National Registry of Environmental Professionals (NREP) and will offer the NREP exam. A passing grade on this exam (together with a college degree and professional experience) will qualify you for the title of Registered Environmental Property Appraiser (REPA). Credits such as these are required to perform Phase I Assessments in some states.

Who Should Attend—Geoscientists (students to professionals) who are involved or interested in Phase I Environmental Site Assessments, remedial site investigation, or environmental site investigation. This course will cover all aspects of performing a Phase I Environmental Site Assessment, including the purposes and objectives of the investigation, a discussion of all appropriate environmental regulations, appropriate sources of information and people to conduct the assessment, and environmental liability. We will review the regulatory basis for the assessments and cover the resources available to assist in the performance of the assessments. How to attend—This course is endorsed by the National Registry of Environmental Professionals (NREP) and will offer the NREP exam. A passing grade on this exam (together with a college degree and professional experience) will qualify you for the title of Registered Environmental Property Appraiser (REPA). Credits such as these are required to perform Phase I Assessments in some states.

Who Should Attend—Geoscientists (students to professionals) who are involved or interested in Phase I Environmental Site Assessments, remedial site investigation, or environmental site investigation. This course will cover all aspects of performing a Phase I Environmental Site Assessment, including the purposes and objectives of the investigation, a discussion of all appropriate environmental regulations, appropriate sources of information and people to conduct the assessment, and environmental liability. We will review the regulatory basis for the assessments and cover the resources available to assist in the performance of the assessments. How to attend—This course is endorsed by the National Registry of Environmental Professionals (NREP) and will offer the NREP exam. A passing grade on this exam (together with a college degree and professional experience) will qualify you for the title of Registered Environmental Property Appraiser (REPA). Credits such as these are required to perform Phase I Assessments in some states.

Who Should Attend—Anyone interested in producing, using, analyzing, and/or criticizing scientific data.

What You Will Learn—Attendees will learn the range of applicability of earth science visualization, specific strategies for applying computer visualization to their own work, appreciation of the kind and extent of data and the level of effort required to create a successful visualization, and principal sources of commercial and noncommercial visualization software.

Faculty: Paul J. Morin, Visualization Programmer, Gibson Computational Hydrogeology Laboratory, University of Minnesota; Mark McBride, Senior Hydrogeologist, Dames & Moore, Bethesda, Md.; University of Minnesota; and David R. Gillespie, Staff Geologist, Desert Research Institute, Water Resources Center, Las Vegas, Nev.; M.S., University of California, Berkeley.

Limit: 40. CEUs: 1.6. Fee: $300, students $280; includes course manual and lunches.

Applications and optional materials for this site are available on-site for $45.

Information: Fax 303-447-0648 or E-mail: meetings@geosociety.org 119

GSA TODAY, June 1995
Coastal Land Loss.
Sunday, November 5, 8:00 a.m. to 5:00 p.m.

This course will address the factors affecting land loss, how land loss is detected and predicted, and the various technical and nontechnical responses to the problem. Responses such as engineering structures, beach nourishment, and retreat are evaluated in a historical context. Current public-policy issues that require scientific participation will be described, and many examples from different regions of the world will be presented to illustrate coastal land loss in urban, industrial, and recreational settings.

Who Should Attend—Nonexperts in the field of coastal and environmental geology, including college faculty teaching undergraduate courses in environmental geology, undergraduate and graduate students, consulting geologists and engineers, land-use planners, and government officials.

Recommended Background—Participants should have an introductory course in physical sciences. Undergraduate courses in geology would be helpful, but are not required.

What You Will Learn—Attendees will learn the primary causes of coastal land loss in different regions of the United States, standard field surveying and laboratory techniques for measuring land loss, how global positioning systems (GPS) and geographic information systems (GIS) are used to acquire, manipulate, display, and store land-loss data, why government agencies and individuals employ different strategies of shoreline management, the field criteria for recognizing beach retreat, how to plot and handle data, and construction of isopach and discussion of various types of faulting and the vertical thickness in deviated wells and dipping beds, reverse faults, handling of deviated wells, conversion of cross sections, and recognition of horizontal stratigraphy.

GIS and the Geosciences.
Sunday, November 5, 8:00 a.m. to 5:00 p.m.

Geographic Information Systems (GIS) are crucial for today’s geoscience research and projects. The volume of data readily available, new methods in effective field data input, analytical techniques, and the low cost of software and hardware make GIS a cost effective—if not compelling—geoscience tool. Legislation is requiring digital data in government projects, and the volumes of data one must analyze in today’s competitive industries require a thorough understanding of GIS technology. One thing is certain: no geoscientist can exist in today’s world without knowledge of GIS.

Who Should Attend—Any geoscientist interested in GIS as a tool.

Recommended Background—This course accommodates entry-level people, as well as geoscientists who work with the technology, and particularly those who have learned from using one or two systems.

What You Will Learn—Attendees will learn data availability and format, field input, data models, rectification, map projections, georeferencing, analytical methods in GIS, geostatistics, and trends in GIS.

Faculty: Richard L. Bedell, Jr., Senior Geologist, Computer Applications for the World Exploration Generative Team, Homestake Mining Company, Sparks, Nevada; M.Sc., ISIS and Remote Sensing, University of London, London; M.Sc., Geology, University of Toronto.

Limit: 75. CEUs: 0.8. Fee: $150, students $130, includes course manual and lunch.

Hydrogeology and Geochemistry of Wetlands.
Sunday, November 5, 8:00 a.m. to 5:00 p.m. Cosponsored by Hydrogeology Division.

All geologists who work with groundwater in coastal wetlands will benefit from this highly interactive course. The Hydrogeology Division will SUBSIDIZE THE FIRST STUDENT WHO IS A VALID DIVISION MEMBER. The student MUST PAY THE FULL COURSE FEE when registering, but will be reimbursed $50 after the GSA meeting by the Hydrogeology Division.

Research scientists and the regulatory scientific community are keenly interested in the hydrogeology and geochemistry of wetlands. Wetland ground-water hydrodynamics control the chemistry of wetland surface and pore waters, which in turn control the types of wetland plants and the degree of soil humification. Soil humification largely controls the fate and transport of many nutrients and contaminants that reach the wetland setting. Wetland hydrogeological processes include the hydrogeologic settings of major types of wetlands, instrumentation used in wetlands to measure hydraulic head, evaluation of long-term saturation state of wetland soils by modeling, and chemical means to determine the leachate flux. Wetlands are discharge or recharge areas. Geochemical topics to be covered include: isotopic and other chemical tracers and techniques used to detect and monitor cycling, the fundamental geochemistry of wetland nutrient and elemental cycling, and useful field approaches to evaluating subsurface conditions. Ecological topics to be addressed include: prairie paleoecology and stratigraphic techniques, and the hydrogeologic forcing of wetland nutrient and water exchange rates over time. Aspects of using wetlands to treat waste water will also be discussed, and we will review the current state of knowledge on wetland delinination.

Nuclides produced in rock by cosmic rays, such as 3He, 10Be, 26Al, and 36Cl, have been used to date lavas, estimate rates of bedrock erosion, and learn more about the variability of Earth’s environment. Nuclei that are used in geologic studies and their application to geologic problems have increased dramatically as analytic capabilities have expanded. The use of cosmogenic nuclides and their application to geologic problems have become better constrained. This course will consider the application of cosmogenic nuclides to geologic problems such as understanding the rates of nuclide production, the models used for interpreting nuclide abundance, and the determination of nuclide concentrations. Using examples from the literature, we will illustrate the wide variety of disciplines who are interested in using nuclide production to interpret geological change and/or date Quaternary landforms such as lava flows, terraces, alluvial fans, and moraines.

Who Should Attend—Scientists from a wide variety of disciplines who are interested in using cosmogenic nuclides to determine geological change and/or date Quaternary landforms such as lava flows, terraces, alluvial fans, and moraines should have a general background in the geological sciences and be comfortable with basic concepts in physics, chemistry, and mathematics.

What You Will Learn—As a participant in this course, you will learn enough to judge whether cosmogenic nuclides could be used for solving research problems in your field. We will teach you the sampling strategies you need to know to determine the options for sample preparation and analysis. You will be cognizant of the assumptions underlying interpretive models and be aware of current estimates of cosmogenic dates and erosion rate estimates. The course will include a full set of notes, graphics, and computer files that will enable you to conduct your experiments in your own work and that of others.

Faculty: Paul R. Bierman, Department of Geological Sciences, University of California, Berkeley; Ph.D., University of California. Robert A. Morton, Engineer Consultants, Ltd., New Orleans; M.A., Harvard University.

Limit: 40. CEUs: 0.8. Fee: $240, students $220; includes course manual, computer files, and lunch.

7 Coastal Land Loss.

Coastal Land Loss, course #7. Photo by Robert Morton.
Who Should Attend—This course is intended for all regulatory scientists, research scientists, and students studying or working on wetland systems. The course is highly multidisciplinary and designed to reach a large audience needing the most current information on the topics to be covered, as well as a fundamental review of wetland hydrogeology, geochemistry, and ecology.

Recommended Background—It would be useful, but is not critical, for attendees to have had basic courses in hydrogeology, aqueous chemistry or geochemistry, and ecology. However, given the multidisciplinary nature of the course material, the instructors are prepared to teach to an audience with diverse backgrounds.

What You Will Learn—Attendees will gain a clear understanding of the hydrogeology of wetlands, the geochemical processes operating within them, how hydrology and hydrogeology are coupled to wetland ecological succession, and the most current ways used to delineate wetlands.

Faculty: Donald J. Siegel, Dept. of Earth Sciences, Syracuse University; Ph.D., University of Minnesota. Barry G. Warner, Wetland Research Center, University of Waterloo, Ph.D., Simon Fraser University, British Columbia.

Limit: 100. CEUs: 0.8. Fee: $175, students $75; includes course manual and lunch.

Saturday, November 5, 8:00 a.m. to 5:00 p.m.; Event N: Moral Convention Center. Sponsored by NASA/Planetary Geology Division, GSA’s SEAGE Program.

This workshop brings an interactive, hands-on experience for K–12 teachers. Topics related to the geologic exploration of our Solar System will be presented in a modular format, permitting maximum discussion and experimentation among the participants. Limit: 100. Cost: $15. Pre-registration required.

For information: Cassandra Grouns, Dept. of Geology, College of Charleston, 66 George St., Charleston, SC 29424; (803) 953-8279.

Effective Teaching: A Workshop for Graduate Students, Assistant Professors, and Anyone Else Interested in Becoming a Better Teacher.
Saturday, November 5, 8:00 a.m. to 5:00 p.m.; Event N: Moral Convention Center. Sponsored by National Association of Geology Teachers and GSA’s SEAGE Program.

Teaching can be a very rewarding experience, but effective teaching requires careful planning, creativity, and hard work. This workshop is designed to give participants practical advice and hands-on experience with the nuts and bolts of college teaching. Participants will learn how to design and deliver effective lectures, and will examine teaching resources (i.e., slide sets, videos, texts, CD-ROMS), nontraditional teaching and assessment methods, and the latest educational research.

Limit: 50. Cost: $15. Pre-registration required.

For information: Heather Aitchinson, John Baldauf, Benita Murchey, Kate Duff, John Ernissee, John Barron, Charles Blome, Platt Bradbury, Benita Murchey, Kate Duff, John Ernissee, John Barron, Charles Blome, Platt Bradbury, Benita Murchey, Kate Duff, John Ernissee, John Barron, Charles Blome, Platt Bradbury.

Chemical Weathering Rates of Silicate Minerals.
Saturday, November 4 and Sunday, November 5, Brennan Orleans Hotel. Sponsored by Mineralogical Society of America.

This course will be a broad interdisciplinary review of the silicate weathering rates from theoretical, experimental, and field perspectives and will emphasize discussions on future research directions. The course will coincide with the release of Reviews in Mineralogy Vol. 31, Chemical Weathering Rates of Silicate Minerals. Speakers reviewing specific weathering topics will be: Robert Berner and Antonio Lasaga, Yale University; Alex Blum, Robert Stallard, and Art White, U.S. Geological Survey; Susan Brandley, Pennsylvania State University; William Casey, University of California; Patricia Dove, Georgia Institute of Technology; James Drevor, University of Wyoming; Michael Hochella, Jr., Virginia Polytechnic Institute; Kathryn Nagy, Sandia National Laboratory; Harald Sverdrup, Lund University. Contributors: Art F. White and Susan Brandley.

Discussion sessions involving all participants will focus on aspects of integration of silicate dissolution models, comparison between laboratory and field rates, and the role of chemical weathering at the soil, watershed, and continental scales. Subsequent GSA symposium and theme sessions will present additional opportunities for presentation of research results. The interdisciplinary nature of the course will benefit established researchers in the field as well as workers in related studies such as soil science, watershed processes, and global change. Students are especially encouraged to attend.

Limit: 100. Fee: $100, students $250 (includes hotel nights of November 3 and 4, and meals both days excluding lunches). For information and registration: MSA Business Office, 1130 Seventeenth Street, N.W., Suite 130, Washington, DC 20036; (202) 771-4144, fax 202-775-0018.

Siliceous Microfossils.
Sunday, November 5, 8:00 a.m. to 5:00 p.m.; Event N: Moral Convention Center. Sponsored by Paleontological Society.

This short course will highlight recent advances in studies of siliceous microfossils in stratigraphy, biostatigraphy, sequence stratigraphy, and palaeoenvironmental reconstructions. Contributions of microfossils in developing climate models will also be discussed. The course will cover caryophyllids, ehrhars, and endoskeletal diatomites, diatomites, freshwater diatoms, Cretaceous and Cenozoic marine diatoms, and the latest through Cenozoic radiolarians and sponge spicules.

Course content is of interest to biologists, geologists, palaeontologists, or anyone who needs to be better informed about current concepts in siliceous microfossil palaeontology. Like other Paleontological Society short courses, this one is especially appropriate for those who teach general courses in paleontology, historical geology, and history of life. The speakers are prominent experts in their respective fields, and their presentations will include recent discoveries, controversies, and ideas about the origin, evolution, and utility of these siliceous microfossils.


No fee or registration. Course notes will be on site for $15. For information: Charles D. Blome, U.S. Geological Survey, PO Box 25566, MS 3932, Denver Federal Center, Denver, CO 80225; (303) 216-5682; fax 303-216-5690. E-mail: chd@gemmawww.cr.usgs.gov.

Job Hunting and Career Development Strategies and Skills for Geoscientists.
Sunday, November 5, 9:00 a.m. to 5:00 p.m.; Hyatt Regency Hotel. Sponsored by Association for Women Geoscientists.

Learn the job-hunting skills necessary to survive in today’s changing job market and to plan for future career development in your field, as well as related areas you may not have considered. Topics covered include the following:

• Networking gives access to the hidden job market that provides 85% of available employment but is not advertised. Learn to network through professional organizations as well as casual contacts.
• Résumé writing is a skill that provides the job seeker with the opportunity to get an interview. We are including an excellent résumé-writing workbook for geoscientists. Learn how to market yourself and differentiate yourself from the competition.
• Attitudes for success derive from skills and strengths that job seekers may undervalue or be unaware they have. These attitudes boost job-seeking efforts and results in successful interviews.

The workshop will include sharing skills and experiences in a nonthreatening atmosphere, and the opportunity to change attitudes and methods that are no longer effective. The guarantee of future employ-
Position Available

Program Manager

The Geological Society of America is committed to addressing environmental issues, practices, and problems involving the earth sciences. Thus, GSA is soliciting applications for the position of Program Manager of the Institute for Environmental Education (IEE). Through Institute programs, GSA offers an educational interface between the public and private sectors and the geologic community on matters of the environment. The mission of the Institute involves communication of geoscience information relevant to environmental problems, training as applied to environmental practice, and research related to environmental problems.

The initial appointment of the IEE Program Manager will be for a three-year term.

Desirable characteristics for the successful candidate include:

- Interest and experience in the geosciences, particularly involving applied settings.
- M.S. degree required; Ph.D. desirable in sciences or engineering.
- Organized and productive.
- Demonstrated interest in public issues.
- Demonstrated ability to communicate effectively both in writing and orally.
- Willingness to possibly relocate and work at GSA headquarters (Booulder, Colorado) with staff and geoscientists.
- Interest in working with the public and the media.

This position will report directly through the Education Department to the Executive Director.

Responsibilities currently include:

- Coordination of Annual and Section environmental forum(s).
- Continued development and maintenance of Geosources and Environmental Public Outreach Program (GEPOL), including registry, database maintenance, and newsletter publication.
- Initiation and arranging for seminars and technical programs on environmental matters related to public awareness.
- Development and implementation of a sponsored mentorship program for students of the earth sciences.
- Assistance in fund-raising activities of the Institute and general support of the GSA education enterprise.

The appointment will remain open until a suitable qualified candidate has been identified. Salary will be commensurate with experience. The position is available July 1, 1995. Candidates should submit a resume, a letter of interest, and a list containing the names and addresses of three references as soon as possible to: Donald M. Davidson, Jr., Executive Director, Geological Society of America, 3300 Penrose Place, P.O. Box 9140, Boulder, CO 80301.

GSA is an equal-opportunity employer.
Premeeting

1 Explosive Volcanism and Pervolcanic Deposits in East-Central Mexico: Implications for Future Hazards

Tuesdays, November 7, 8, and 9 (morning-through Sunday, November 5, 8-9 a.m.) through Sunday, November 5, (504) 389-3280, ext. 3219; and Garry Maurath, Raytheon Engineering & Geosciences Division. P.O. Box 7000, Ocean Springs, MS 39564-7000, (216) 672-2364; and Garry Maurath, Raytheon Engineering & Geosciences Division, U.S. Army Corps of Engineers, Waterways Experiment Station, Attn.: CEWES-GG, 3909 Halls Ferry Road, Vicksburg, MS 39180-8496, (601) 636-7444 and Jesse O. Snowden, College of Science and Technology, Southeast Missouri State University, Cape Girardeau. Maximum: 40 (each trip). Cost: $65 (R, bus). This 100 km tour of New Orleans and vicinity emphasizes the effects of drainage and subsequent dramatic subsidence of organic-rich soils on infrastructure and residential developments. Stops include Mississippi River flood- control structures, Lake Pontchartrain hurricane protection measures, one of the world’s largest pumping stations, and a municipal water treatment plant. Deltic lands before and after urbanization will be compared in an area where too much and too little water both present problems.

2 Island and Karst Hydrogeology of Andros, Bahamas

Wednesday, November 1, (early morning) through Sunday, November 5. Yoram Eckstein, Dept. of Geology, Kent State University, Kent, OH 44242, (216) 672-2561, and Garry Maurath, Raytheon Engineering & Geosciences Division, U.S. Army Corps of Engineers, Waterways Experiment Station, Attn.: CEWES-GG, 3909 Halls Ferry Road, Vicksburg, MS 39180-8496, (601) 636-7444 and Jesse O. Snowden, College of Science and Technology, Southeast Missouri State University, Cape Girardeau. Maximum: 40 (each trip). Cost: $65 (R, bus). This trip will examine the typical and pedocological characteristics of “classic” Mississippi River flood-plain depositional environments. Comparisons between Holocene and Wisconsinan-Mississippian floodplain environments will be used to discuss relative sea-level change and climatic influences on flood-plain evolution in the southern Lower Mississippi Valley.

3 Wisconsinian to Holocene Sedimentation, Soil Formation, and Evolution of the Mississippi River Flood-Plain, Southern Lower Mississippi Valley

Friday, November 3, 8 a.m., through Sunday, November 5. Cosponsored by Sedimentary Geology Division. Andres Aslan, Dept. of Geology, University of Colorado, Boulder, CO 80309, (303) 492-6133, Whitney Austin, Louisiana State University, Institute for Environmental Studies, Baton Rouge; and Torbjorn E. Torne, Dept. of Physical Geography, University of Utrecht, Netherlands. Maximum: 40. Cost: $190 (0B, 2L, R, 0D, 2ON, bus). This trip will examine the sedimentologic and pedologic characteristics of “classic” Mississippi River flood-plain depositional environments. Comparisons between Holocene and Wisconsinan-Mississippian floodplain environments will be used to discuss relative sea-level change and climatic influences on flood-plain evolution in the southern Lower Mississippi Valley.

4 Gulf Coast from New Orleans, Louisiana, to Pensacola Beach, Northwest Florida

Saturday, November 4 and Sunday, November 5. Ervin G. Orris, Gulf Coast Research Laboratory, P.O. Box 7000, Ocean Springs, MS 39564-7000, (601) 872-4215. Maximum: 40. Cost: $160 (0B, 2L, R, 0D, 1ON, bus). This trip will cover Neogene and Quaternary coastal plain units, landforms, their development and Late Holocene shore erosion in four states. Albidum, eolian, strandplain, lagoonal, bay and nearshore marine deposits, as well as barrier islands will be observed and discussed. We will emphasize contrasts with northwest Gulf and Atlantic coastal evolution, including sedimentary cycles and climate indicators. We will visit historic sites and spend Saturday night at Pensacola Beach, one of the finest white sand beaches in the county.

5 Hydrogeology and Depositional Setting of Coastal Louisiana Floating Marshes

Sunday, November 5. Cosponsored by Hydrogeology Division and Coal Geology Division. Chris Swarzenski, U.S. Geological Survey, Water Resources Division, 3535 S. Sherlock Forest Drive, Suite 120, Baton Rouge, LA 70816, (504) 389-0281, ext. 1219; and Gail Chimura, Dept. of Geography, McGill University, Montreal, Quebec. Maximum: 15. Cost: $95 (1L, van). Floating marshes are geotracers forming environments with a detached substrate that moves vertically in response to fluctuating water levels. Although found throughout the world, their occurrence in coastal settings is rare. The Mississippi Delta plain is an exception; floating marshes dominate large portions of the “deltaic landscape.” Louisianians, “they compose as much as 75% of low-salinity marshes of the lower Mississippi Delta plain. We will visit examples of floating marshes south of New Orleans to examine their depositional setting, stratigraphy, and ecology in context of their unique hydrology.

Half Day–Concurrent with the Meeting

6a/b Engineering Geology of the New Orleans Area: Water, Water, Everywhere...

Tuesday, November 7, 7:30 a.m. to 12:30 p.m., or Wednesday, November 8, 7:30 a.m. to 12:30 p.m. Roger T. Saucier, Consultant, 4125 Winchester Road, Vicksburg, MS 39180-8496, (601) 636-7444 and Jesse O. Snowden, College of Science and Technology, Southeast Missouri State University, Cape Girardeau. Maximum: 40 (each trip). Cost: $65 (R, bus). This 100 km tour of New Orleans and vicinity emphasizes the effects of drainage and subsequent dramatic subsidence of organic-rich soils on infrastructure and residential developments. Stops include Mississippi River flood-control structures, Lake Pontchartrain hurricane protection measures, one of the world’s largest pumping stations, and a municipal water treatment plant. Deltic landscapes before and after urbanization will be compared in an area where too much and too little water both present problems.

Postmeeting

7 Geological and Cultural Excursion from Jackson, Mississippi to St. Francisville, Louisiana

Thursday, November 9 through Saturday, November 11. Cosponsored by National Association of Geology Teachers, Maureen K. Corcoran, Earthquake Engineering & Geosciences Division, U.S. Army Corps of Engineers, Waterways Experiment Station, Attn.: CEWES-GG, 3909 Halls Ferry Road, Vicksburg, MS 39180-8496, (601) 636-1134; Drew Ware and Danny W. Harrelson, same address. Maximum: 40. Cost: $190 (0B, 2L, R, 0D, 2ON, bus). The positions of Jackson, Vicksburg, and Natchez, Mississippi, and St. Francisville, Louisiana, in the central Lower Mississippi Valley region have been vital to economic development and cultural diversity of the area. The role of the region, associated with its position in the river valley and the

FIELD TRIPS

Trips start and end in New Orleans unless otherwise indicated. If you register for only a field trip, you must pay a $15 nonrefundable fee in addition to the field trip fee. This fee may be applied toward meeting registration if you decide to attend the meeting. Students, spouses, and guests are cordially encouraged to attend the trips. The trips are technical in nature and some can be physically rigorous.

Trip fees include transportation during the trip and a guidebook. Other services such as meals and lodging are noted by the following symbols: B—breakfast, L—lunch, R—dinner, D—dinner, and ON—overnight lodging. The mode of transportation follows overnight lodging information.

Returning buses for postmeeting trips 7, 11, 12, and 13 can stop at the New Orleans Airport to discharge participants who have evening flights or would prefer to spend the night in a motel adjacent to the airport, where rates may be less than downtown. Participants are cautioned against scheduling any tight travel connections with field trip return times, because those times are estimates and delays in the field can occur. For a list of hotels near the airport and their phone numbers, contact Becky Martin, GSA Field Trip Coordinator, ext. 164.

Pre-registration deadline is September 29. Cancellation deadline is October 6. No refunds will be given after this date. If GSA must cancel a field trip because of logistics or if minimum registration requirements are not met, a full refund will be issued to you after the meeting. Be aware of flight-change penalties imposed by the airlines. Plan alternatives in advance should the trip you are registered for be canceled.

If you have special needs, contact the individual trip leader or 1995 Field Trip Coordinator, ext. 164. Thank you for your interest and participation in 1995 Field Trips.
topography of the loess bluff, was of preeminent importance to the outcome of the Civil War. The Lower Mississippi River Valley also served a diverse Native American population. This field trip will include visits to the classic (Lyell was there) fossiliferous Eocene outcrops in Jackson and the type locality of the Oligocene Vicksburg limestone as well as many important cultural sites, including one of the largest known Indian mounds and the Vicksburg Battleground and its entrenchments.


This trip will examine stratigraphic sections in the eastern Gulf Coastal Plain (western Alabama and eastern Mississippi) containing molassic fauna representative of the Miocene, Pliocene, and lower Pleistocene stages. The morning of the second day will be spent examining this richly fossiliferous Gosport Sand and adjacent upper Pleistocene units at famous Little Stove Creek in southwest Alabama. Additional middle Eocene localities in western Alabama will be visited during the afternoon on the way to the final stop, an Eocene-Oligocene (Jacksonian, middle Eocene) section on the Chickasawhaw River in southeast Mississippi. Discussions at field trip stops will focus on (1) possible causes of the periodic mass extinctions responsible for the punctuated pattern of the Paleogene molassic fauna succession in the Gulf Coastal Plain, (2) the nature of the relationships between the stratigraphic sequences and the geological setting of the Mississippi Delta plain. We will travel across the Mississippi River and through the deltaic plain of the Lafourche region west of New Orleans. Stops will be made to examine core and discuss fluvial and deltaic features and processes and their relationship to human use and settlement in the region over the past several thousand years.

9 The Appalachian Thrust Belt in Alabama: Influences on Structural Geometry. Thursday, November 9 through Saturday, November 11. William A. Thomas, Dept. of Geological Sciences, University of Kentucky, Lexington, KY 40506-0053, (606) 257-6222, and W. Edward Osborne, Geological Survey of Alabama, Tuscaloosa, 35401, (205) 323-1901, (2L, OJN, bus). Although the trip ends in New Orleans, the bus can make a stop in the early afternoon on Saturday at the Birmingham, Alabama, airport for anyone wishing to depart from there.

An overview of the Appalachian thrust belt in Alabama will include examples of across-strike and along-strike variations in thrust-belt structure and in pre-, syn-, and post-orogenic biostratigraphy. The Alabama Appalachians illustrate (1) the effects of a complete Wilson Cycle, (2) along-strike diachrony of the upper and lower thrust sheets, (3) cross-strike variations in the internal structure of the thrust wedge, and (4) cross-strike alignments of along-strike structural changes in transverse zones. Field stops are selected to focus on excellent exposures where structural and stratigraphic relations can be observed and interpreted. Highlights of the trip include the ground-water recovery of pre-glacial ecosystems beneath the alluvial fan on thrust-belt structures, contrast between ramps of the basal decollement and smaller scale folds and imbricate thrust faults associated with upper-level detachments, transverse zones and lateral ramps, oblique intersection of early synorogenic stratigraphy and late thrust-belt structure, synsedimentary structures, and two exposed thrust-fault surfaces where effects of fault-block deformation may be observed.

10 Cultural Adaptation to Landforms in the Mississippi Delta Plain. Thursday, November 9, 8:00 a.m. to 6:00 p.m. Co-sponsored by Archaeology Division and Natural Association of Geology Teachers. Charles E. Pearson, Coastal Environmental Inc., 12690 Main Street, Baton Rouge, LA 70802, (504) 381-7451; and Donald W. Davis, Louisiana State University. Maximum: 40. Cost: $80 (1L, bus).

This trip will investigate the geology and cultural setting of the Mississippi Delta plain. We will travel across the Mississippi River and through the deltic plain of the Lafayette region west of New Orleans. Stops will be made to examine core and discuss fluvial and deltaic features and processes and their relationship to human use and settlement in the region over the past several thousand years.

11 Site Characterization and Application of Ground-Water Remediation. Thursday, November 9, 8:00 a.m. to 5:00 p.m. Ivy Dupree and Eric Meyers, Dow Chemical Company, P.O. Box 150, Building 3102 W., Plaquemine, LA 70574, (504) 355-7451. Maximum: 40. Cost: $70 (1L, R, bus). Required safety equipment and lunch will be provided by Dow Chemical at their plant in Plaquemine.

The Dow Chemical Company (Dow) Louisiana Division manufacturing complex is a global scale petrochemical facility. A site-wide subsurface assessment has been completed to characterize the geohydrology and areal distribution and depth of chlorinated organic compounds impacting the shallow ground-water. A detailed computer generated 3-D relational model showing stratigraphy, lithology, and concentration of compounds of concern has been prepared. Directional drilling for installation of horizontal ground-water recovery wells has been implemented as the most feasible and cost effective technology to recover and contain contaminated ground-water. This field trip will provide participants with in-plant visits to areas where existing vertical ground-water recovery wells are currently in operation.

The site of active Phase I horizontal drilling well operations will be visited, and the design and construction aspects for installation of the horizontal wells will be reviewed.

12 Internal Structure of the Five Island Salt Dome, with a Visit to Côte Blanche Salt Mine. Friday, November 10, 8:00 a.m. to 6:00 p.m. Donald H. Kupper, 210 West Circle Drive, Canon City, CO 81212-2439, (711) 269-1620; Brian E. Lock, University of Southern Mississippi at Hattiesburg, MS 39401; Whitney Austin, Louisiana State University, Baton Rouge; and James T. Neal, Sandia National Labs, Albuquerque. Maximum: 36. Cost: $75 (1L, R, van).

On this trip we will cross the Pleistocene and Holocene Mississippi river flood plain and view swamp and terrace deposits and the old Lafayette and Teche courses of the Mississippi River. When we arrive at Côte Blanche the group will divide in half. One group will tour the outer ramp of the Côte Blanche “Island,” examine surface morphology and soils and the uplifted, faulted, Pleistocene coastal and terrace deposits and profiles, and visit Louisiana's only sea cliff. The other group will have a tour of the North American Salt Company mine and will walk around part of the mine workings. The salt is white, crystalline, talc-like, white, and vertically banded. We will observe the salt, the vertical structures, anomalous salt features (textures, structures, inclusions), and mining methods. After lunch the two groups will exchange places.

13 Sand and Gravel Mining in the Amite River Flood Plain, Southeastern Louisiana. Friday, November 10, 7:00 a.m. to 6:00 p.m. Joann Mosa, Dept. of Geography, University of Florida, 3141 Turlington Hall, Gainesville, FL 32611, (352) 392-0849. Maximum: 40. Cost: $25 (R, bus).

This trip will provide an overview of the middle Amite River flood plain, south of Baton Rouge. Discussions at field stops will focus on landscape morphology, sedimentology, stratigraphy, hydrogeological processes, economic resources, and human impact. Discussions at field stops will focus on the spatial variations in this valley, the economic importance of the river for sand and gravel production, and the pronounced channel metamorphosis in areas of floodplain mining.
Earth Scientists on Capitol Hill

Wednesday, November 8, 3:00 to 4:00 p.m.; Ernest N. Morial Convention Center

The GSA Congressional Science Fellow program places earth scientists on the staffs of congressional offices. Congressional Science Fellows participate in the drafting of public policy by providing scientific and technical expertise to gain first-hand experience with the federal legislative process. Several of the previous fellows have accepted positions in Washington, D.C., and continue to provide to Congress and federal agencies a much-needed perspective of earth sciences.

As GSA’s ninth Congressional Science Fellow, Jill S. Schniederman concentrated on national environmental and natural resource policies, particularly forest and mining issues, and Missouri River and water quality issues while serving on the staff of Senator Thomas Daschle (D-SD), Senate Democratic Leader. At this open session, Schniederman will report about her experiences on the Hill and discuss some means by which earth scientists can become more effective in the public policy arena. Geology and Public Policy Committee members will comment on how scientists can provide expertise to the U.S. Congress, on the role of the GSA Fellow program, and on the process to apply for the fellowship. Previous Congressional Science Fellows will also participate in the session.

Funded by GSA and by a grant from the U.S. Geological Survey, the GSA fellowship demonstrates the value of science-government interaction, and relates the need for informed involvement to the earth science community.

Geology and Public Policy Forum

Geology’s Future: Perspectives from the U.S. Geological Survey, State Surveys, Academic Institutions, and the Private Sector

Wednesday, November 8, 1:00 to 2:30 p.m.; Ernest N. Morial Convention Center

The annual GSA Geology and Public Policy Committee forum will take a look into the future and discuss the role of geology and geologists in light of changing public and government attitudes toward science, research, and environmental priorities. Recent issues being addressed in Congress may have serious consequences on the direction of our profession.

The U.S. Geological Survey and some state surveys have been targeted for complete elimination or severe budget cuts. The value of their projects for the public benefit is being questioned. Academic institutions are revisiting and revising curricula to place less emphasis on the dwindling resource recovery industry and to make those courses more relevant to today’s job market. A scan of recently advertised academic positions indicates a trend toward the fields of environmental geology and hydrogeology. In the private sector, more geologists are finding work in the environmental consulting arena than in most other areas. At the same time, environmental legislation passed to date is being closely scrutinized by Congress, and government-funded restoration programs are coming under fire for being wasteful and showing lack of progress.

While the current reinvention of government can be viewed as a threat to geologists and to scientists in general, we can also seize it as an opportunity to revitalize the role of our science in the future.

Graduate School Information Forum

Monday, November 6 through Wednesday, November 8, 8:00 a.m. to 5:00 p.m.; Ernest N. Morial Convention Center, Hall A

Attention students: This is a great opportunity for you to search for the right graduate school. Come to New Orleans and meet with representatives of top graduate schools without spending the travel time and money to go to each school for information and interviews.

University representatives will be on hand to answer questions and talk to students. Individual appointments are not necessary, although students are welcome to contact the schools in advance and schedule a meeting time. A complete list of participating schools with contact names and telephone numbers is available. The schedule will be published in the September issue of GSA Today. The deadline for schools to register for the forum is August 15. If you would like to participate or receive the list, please contact Matt Ball, GSA headquarters.

Employment Opportunities in the Geological Sciences

Roundtable Discussions

Sunday, November 5, 12:00 noon to 2:00 p.m.; Ernest N. Morial Convention Center

This annual forum on employment opportunities in the geosciences allows valuable one-on-one interaction between panel members and individuals or small groups. Experts in each of the areas listed below will conduct his or her own “mini-roundtable discussion” designed to provide a better opportunity to field both general and specific questions on a more personal, individualized basis.

These roundtable discussions will be in the Employment Service area during the interview registration time; however, YOU DO NOT HAVE TO BE SIGNED UP FOR EITHER THE ANNUAL MEETING OR THE EMPLOYMENT SERVICE TO PARTICIPATE IN THESE DISCUSSIONS.

Everyone—professionals and students—is encouraged to attend, to talk with as many of the experts as you like, and to pick up a free copy of the 1995 booklet “Future Employment Opportunities in the Geological Sciences.”

Do you need qualified scientists to fill staff needs? Or are you looking for employment in the earth sciences field? If so, you are invited to participate in the GSA Employment Interview Service.

All interested organizations seeking qualified earth scientists to fill staff needs are urged to submit notices of their vacancies and their requests for computer listings of applicants in advance of the meeting. The minimum fee for a printout of two specialty listings is $15.

Do you need qualified scientists to fill staff needs? Or are you looking for employment in the earth sciences field? If so, you are invited to participate in the GSA Employment Interview Service.

The GSA Employment Service will handle all interview scheduling with Employment Service applicants.

Many job seekers have found the Employment Interview Service critical to their successful search for positions. The one-year registration fee is $50 for GSA Members and Student Associates; it is $60 for nonmembers. This applicant fee also includes the interview service at the annual meeting.

Applicants who sign up with the Employment Service by August 30, 1995, will be included in the information that employers receive prior to the meeting, so submit your forms early to receive maximum exposure, and remember to indicate on your application form that you would like to interview in November.

For additional information or forms, contact T. Michael Moreland, Membership Services Manager, GSA headquarters.

GSA Employment Service

Monday, November 6 through Wednesday, November 8, 8:00 a.m. to 5:00 p.m.; Ernest N. Morial Convention Center

Do you need qualified scientists to fill staff needs? Or are you looking for employment in the earth sciences field? If so, you are invited to participate in the GSA Employment Interview Service.

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For additional information or forms, contact T. Michael Moreland, Membership Services Manager, GSA headquarters.
Field Cooking Techniques
Open Symposium:
Call For Recipes

Deadline for Recipes:
Extended to August 1, 1995!

GSA invites K–16 earth science teachers, graduate students, and scientists to New Orleans for an exciting program designed around dynamic earth and space science topics. Workshops and technical sessions especially designed by and for K–16 teachers are offered. Workshops are hands-on and inquiry based. Teachers are also encouraged to attend other symposia and theme sessions in the technical program as well as field trips throughout the meeting and to browse in the exhibits area.

The preregistration fee for K–12 teachers is $25. The on-site registration fee is $35. A limited number of scholarships are available to K–12 teachers to help offset meeting expenses. Appropriate ID is necessary. Preregistration for field trips and limited-enrollment events is required. For registration materials and additional information, contact the Educational Programs Department, GSA headquarters, ext. 162; or Marilyn Saponara, Bonnabel High School, 8800 Bruin Dr., Metairie, LA 70003; or Bill Craig, Dept. of Geology and Geophysics, University of New Orleans, 2080 Lakeshore Drive, New Orleans, LA 70148.

SCHOLARSHIP IN THE GEOSCIENCES—BEYOND ACADEMIA


Environmental Issues Across the Geoscience Curriculum See Volunteered Papers, Theme Topic T45, page 118.

Making Connections: Ties Between K–12 and University Education See Volunteered Papers, Theme Topic T46, page 118.

FOR INFORMATION: GSA Meetings, P.O. Box 9140, Boulder, CO 80301
GSA TODAY, June 1995

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SOCIAL EVENTS

Outstanding specimens of rocks, minerals, and fossils could be yours! Come to the Rock Raffle and bid on your favorite sample. All proceeds go to the National Earth Science Teachers Association.

Rock Raffle
Monday, November 6, 4:00 to 6:00 p.m.; Ernest N. Morial Convention Center.

Alumni Receptions
Monday, November 6, 7:00 to 9:30 a.m.; Hyatt Regency Hotel. See Registration Form, page 134.

Welcoming Party
Sunday, November 5, 5:00 to 8:00 p.m.; Ernest N. Morial Convention Center.

Join your colleagues Sunday evening for the celebration and grand opening of the exhibit hall to kick off the 1995 GSA Annual Meeting! This is the time to meet with friends to plan the next four days of meeting activities. Relax and enjoy the musicians throughout the exhibit hall while viewing the exhibits, eating, and enjoying your favorite beverage. This is the time to experience the New Orleans tradition of “second line” entrances!

Alumni Receptions
Monday, November 6, 7:00 to 9:30 p.m.; Hyatt Regency Hotel.

Everyone knows someone at the popular Alumni Receptions. Plan to join your former classmates for an evening of memories and fun. More than 80 colleges and universities will be represented. If you would like your university to hold a reception or to be part of the Group Alumni Party, have your department chair contact Vanessa George, Events Coordinator, GSA headquarters, ext. 113.

T.A.C. (Thursday Afternoon Club)
Thursday, November 9, 3:30 to 5:00 p.m.; Ernest N. Morial Convention Center.

T.A.C. is for the meeting survivors—for the diehards who last to the end! Come to the Poster Session area and help us say thank you and farewell to New Orleans. Beer will be available.

Awards Luncheons and Other Tickets
Associated societies and GSA divisions invite their members and other interested guests to join them for their annual meal functions, special addresses, and awards ceremonies. You do not need to be registered for the meeting; everyone is welcome. Please use the Registration Form in this issue to order tickets. Location and time will appear on the Annual Meeting Program.

DINNER CRUISE
Saturday, November 4, 5:45 p.m.

Join your colleagues and enjoy Dixieland jazz jam session with colleagues. Geologist D. D. Trent will coordinate this GSA group of fine musicians. If you are interested in participating as a musician, contact D. D. Trent at (601) 621-1122.

Cost: $70. Limit: 60.

Riverboat Dinner Cruise
Saturday, November 4

We have talent among us! If you are looking for something to do your first night in town, stop in for a relaxing, casual evening of listening or dancing to an informal Dixieland Jazz Jam session with colleagues. Geologist D. D. Trent will coordinate this GSA group of the musicians. If you are interested in participating as a musician, contact D. D. Trent at (601) 621-1122.

Cost: $7 (includes music, protein, cash bar).

We have talent among us! If you are looking for something to do your first night in town, stop in for a relaxing, casual evening of listening or dancing to an informal Dixieland Jazz Jam session with colleagues. Geologist D. D. Trent will coordinate this GSA group of the musicians. If you are interested in participating as a musician, contact D. D. Trent at (601) 621-1122.

Cost: $7 (includes music, protein, cash bar).

Cost: $39 (includes transportation, admission, music, dinner, cash bar).

Cost: $39 (includes transportation, admission, music, dinner, cash bar).

Cost: $70. Limit: 60.

Cost: $38 (includes river cruise, buffet, Dixieland jazz band, cash bar).

NAGT Luncheon
Monday, November 6, 12:00 noon to 1:30 p.m.; Hyatt Regency Hotel. See Registration Form, page 134.

Earth Science Educators Social Hour
Monday, November 6, 4:00 to 6:00 p.m.; Ernest N. Morial Convention Center.

During the Rock Raffle and Share-A-Thon, mingle with your colleagues, share amusing experiences, and learn what others are doing in their classrooms.

Partners for Education Program (PEP) Reception
Tuesday, November 7, 4:30 to 6:00 p.m.; Ernest N. Morial Convention Center.

Come and enjoy a beverage from the cash bar while you meet PEP partners and see the changes in GSA’s partnering program.
New Orleans is filled with many unique cultures and traditions. From the shores of Lake Pontchartrain to the banks of the Mississippi River, from crawfish boils to beignets and café au lait, the Bourbon Street high life to Garden District tranquility, New Orleans is like no other city. The friendly people, the history, the tantalizing food — all of which our hospitality will delight you. Most everything is within walking distance, an inexpensive trolley ride, or a short drive. Please join us.

Guests are invited to visit the GSA Hospitality Room, located in the Esplanade Room in the Hyatt Regency Hotel. Your hosts will be providing a resource center to help you explore your interests. Abundant information on New Orleans and surrounding areas will be available, as well as details on GSA tours and seminars. We will be serving light refreshments throughout the day, so please stop by. Remember to wear your GSA badge.

Sunday, November 5, 8:30 to 4:00 p.m.; Hyatt Regency New Orleans, 500 Canal Street, New Orleans, LA
Join us for a special reception to welcome you. Guest registrants, don’t forget to bring the information packet you received in your registration materials for a complimentary glass of wine or soda. There will be a cash bar available as well. Plan to meet old and new friends in the Hospitality Room. All registrants are welcome. We will have special visitors from the Audubon Zoo! See seminars for more information on these Cajun critters.

SEMINARS
All GSA meeting attendees—guest, professional, and student registrants—are invited to attend the following seminars. There is no fee. All seminars will be at the Hyatt Regency Hotel. Stop by the Hospitality Room to find the exact room location.

Native Louisiana Animals
Sunday, November 5, 9:45 a.m. to 1:00 p.m.
This tour will acquaint you with many of the animals native to the swamps of Louisiana handled by Debbie Pearson, an expert from the world-famous Audubon Zoo. You will see and mingle with Cajun critters who know the enchanting Longue Vue Gardens and Estate in New Orleans, a part of Honey Island Swamp, owned by the Nature Conservancy, and Ft. Pike on the edge of Lake Pontchartrain. Be prepared for sightings of herons, egrets, ducks, raccoons, Eurasian collared doves, and maybe a roseate spoonbill. The excursion will be guided by Southern bald eagles preparing to nest.

Cost: $32 (includes transportation, guide, and box lunch).

Native Louisiana Animals—Birding
Tuesday, November 7, 9:00 a.m. to 1:30 p.m.
This bird-watching tour will take you on an opportunity to view indigenous and migratory fowl of the Louisiana Swamps. Birding enthusiast Peggy Siegert will lead you on a field excursion to Bayou National Wildlife Refuge (over 22,000 acres, all within city limits), the Chevron Boardwalk built over a part of Honey Island Swamp, owned by the Nature Conservancy, and Ft. Pike on the edge of Lake Pontchartrain. Be prepared for sightings of herons, egrets, ducks, raccoons, Eurasian collared doves, and maybe a roseate spoonbill. The excursion will be guided by Southern bald eagles preparing to nest.

Cost: $32 (includes transportation, guide, and box lunch).

America’s Most Interesting City
Sunday, November 5, 11:00 a.m. to 4:00 p.m.
This tour takes you through the French Quarter with a stop at Jackson Square, where the city was founded, and on through the historic French Market to Esplanade Avenue, with its elegant homes with wrought-iron lace balconies. We will stop at a unique above-ground cemetery, to continue our visit to historical City Park and Lake Pontchartrain. Returning along St. Charles Avenue, we will stop to watch historic streetcars. We will circle the Superdome and learn what makes it one of the unique buildings in the world.

Cost: $17 (includes transportation and guide).

Honey Island Swamp Tour
Sunday, November 5, 8:30 a.m. to 1:00 p.m.
This tour, guided by wetland ecologist Paul Wagner, will venture into some of the wildest and most pristine river swamps in America, acquired by the Nature Conservancy as Louisiana’s first nature preserve. There will be opportunity for nature photography and wildlife observation. Resident and migratory wildlife includes alligators, bald eagles, waterfowl, herons, egrets, ibis, owls, ospreys, deer, black bear, feral hogs, nutria, raccoons, otters, beavers, minks, turtles, and frogs.

Cost: $37 (includes transportation, guide, and box lunch).

America’s Most Interesting City, with Longue Vue Gardens and Estate
Monday, November 6, 9:00 a.m. to 1:30 p.m.
An outing that includes most of the stops of the America’s Most Interesting City Tour plus a visit to the enchanting Longue Vue Gardens and Estate in the heart of New Orleans. Filled with native plants and flowers, the garden changes with the seasons. A light box lunch will be served under the tennis court pavilion. A tour of the 46-room mansion will delight the eye with magnificent antiques, collector’s items, and art objects.

Cost: $14 (includes transportation, guide, and admission).

Learning to Cook Creole
Tuesday, November 7, 9:30 a.m. to 1:30 p.m.
You’ll learn how to prepare the Creole cuisine that has made New Orleans famous. You will be entertained with the history and origins of Creole recipes—a combination of French, Spanish, African, and Choctaw Indian—which were adapted and honed from the mix of flavors that make New Orleans “the melting pot of the world.” Sample such delicacies as jambalaya, and learn the secret to making pecan pralines and techniques to spice up recipes to achieve that authentic New Orleans flavor while answering your questions and a
cost of your choice.

Cost: $32 (includes transportation, guide, admission, recipes, and lunch).

FORMAL TOURS
Tours will leave the lobby of the Hyatt Regency New Orleans. Reservations for all tours will be accepted on a first-come, first-served basis, so please register early. Space is limited and these trips will be popular, so be sure to preregister. Our tour operator requires a guarantee several weeks in advance, so don’t wait until you arrive in New Orleans to register for these trips. All GSA meeting registrants are welcome to participate in any of the tours offered.

Bayou Birding
Sunday, November 5, 7:45 a.m. to 3:00 p.m.
Bird-watchers will want an oppor- tunity to view indigenous and migratory fowl of the Louisiana Swamps. Birding enthusiast Peggy Siegert will lead you on a field excursion to Bayou National Wildlife Refuge (over 22,000 acres, all within city limits), the Chevron Boardwalk built over a part of Honey Island Swamp, owned by the Nature Conservancy, and Ft. Pike on the edge of Lake Pontchartrain. Be prepared for sightings of herons, egrets, ducks, raccoons, Eurasian collared doves, and maybe a roseate spoonbill. The excursion will be guided by Southern bald eagles preparing to nest.

Cost: $32 (includes transportation, guide, and box lunch).

Town and Country Highlights
Tuesday, November 7, 9:00 a.m. to 4:00 p.m.
Experience the New Orleans ambience and the heritage of our ancestors with a visit to a magnificent plantation along the historic Mississippi River Road and a private Garden District mansion. You will visit San Francisco Plantation along the historic Mississippi River Road and a private Garden District mansion which you will visit. You will learn about the Southern Bald Eagle, the history of the city, and what its future prospects are. The narration will include background on Blaine Kern, floats-designer, and O’Henry began his writing career. See Madame John’s Legacy and other settings of George Washington Cable’s Creole stories.

Cost: $27 (includes transportation and guide).

Mardi Gras World
Monday, November 6, 9:00 a.m. to 4:00 p.m.
Join us for an informative introduction to your Mardi Gras experience. You will visit the world-famous Mardi Gras Museum, which has identified several informal tours. These tours are either within walking distance of the Hyatt or can be reached inexpensively. The Hospitality Room will have an abundance of literature on these and other self-guided tours. We have suggested dates and times that least interfere with our GSA Program activities. To facilitate small groups of people with similar interests coming together, sign-up sheets for these tours will be available.

French Quarter Walking Tour—Sunday, 9:00 a.m. or Tuesday, 2:00 p.m. The original city constructed on the natural levee of the Mississippi River. Contains many historic residences and businesses. Allow 2–3 hours.

Antiquing Along Magazine Street—Tuesday, 9:00 a.m. Six blocks of antique shops with varied themes, art galleries, restaurants, and specialty shops. Allow half a day.

Trolley Ride Along St. Charles Avenue—Wednesday, 9:00 a.m. Ride along the famous streetcar line that has continuous running street car past the luxurious mansions of old New Orleans. Detailed guide material available. Allow 3 hours.

City Park and the New Orleans Museum of Art—Thursday, 9:45 a.m. Stroll through the greenery of City Park and its lagoon and attractions are the New Orleans Museum of Art and the Botanical Gardens. Allow half a day.

INFORMAL TOURS
New Orleans is an old city with a charming past that has emerged from the contributions of a rich ethnic cross section. Much of that past has been captured in the formal tours we have scheduled. For those who prefer to explore the city’s charm in a less regimented atmosphere of a small group, we have identified several informal tours. These tours are either within walking distance of the Hyatt or can be reached inexpensively. The Hospitality Room will have an abundance of literature on these and other self-guided tours. We have suggested dates and times that least interfere with our GSA Program activities. To facilitate small groups of people with similar interests coming together, sign-up sheets for these tours will be available.

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EXHIBITS

Bridging the Gulf with the Latest in Products and Services
Ernest N. Morial Convention Center, Exhibit Hall A

Enjoy the excitement in the exhibits area. You will not find a wider variety of displays, all geared to the geosciences, than at this meeting. Browse the exhibits during the Welcoming Party on Sunday evening. If you can't see it all then—three more days await you.

The exhibitors will be eager to show you their vast array of products and services. See demonstrations of state-of-the-art computer, instrumentation, microanalysis, camera, and field equipment. Shop for fossils, gemstones, and mineral specimens! Purchase books, learn about the latest projects of governmental agencies, and visit with major universities about their programs.

CONVENIENT EXHIBIT HOURS

<table>
<thead>
<tr>
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<th>Sunday</th>
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<th>Tuesday</th>
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<tr>
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<td>5:00 p.m.–8:00 p.m.</td>
<td>9:00 a.m.–5:00 p.m.</td>
<td>9:00 a.m.–5:00 p.m.</td>
<td>9:00 a.m.–4:00 p.m.</td>
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</tbody>
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MEETING EXHIBITORS
(as of 5/16/95)

- Academic Press
- Activation Labs
- American Association of Petroleum Geologists Bookstore
- American Geological Institute
- American Geophysical Union
- American Institute of Hydrology
- American Institute of Professional Geologists
- American Journal of Science
- Arylbex America
- ASC Scientific
- Association of Engineering Geologists
- Association for Women Geoscientists
- Baylor University
- Ben Meadows Company
- Blackwell Science
- Cal Graebler Minerals
- Cambridge University Press
- Center for Coastal, Energy & Environmental Resources
- Chapman & Hall
- ChemPet Research Corporation
- Colorado School of Mines
- Columbia University Press
- Crystal Mark
- Cushman Foundation for Foraminiferal Research
- D.C. Heath & Company
- Datel, Inc.
- Desert Research Institute
- Dorling Kindersley Family Library
- Earth Magazine
- Earth Observation Magazine
- Earth Remote, Inc.
- Economic Geology Publishing Company
- Encyclopedia Britannica
- EOSAT
- ESRI
- Finnigan MAT
- Fisons Instruments
- Florida Geological Survey
- Forestry Suppliers, Inc.
- Friendship Publications
- Gems and Jewelry
- General Supply Corporation
- Geotechnical Society
- Geographics
- Geological Association of Canada
- Geological Society of America—Archaeological Division
- Geological Society of America—Bookstore
- Geological Society of America—Combined Publishers Display
- Geological Society of America—Foundation
- Geological Society of America—Geology & Public Policy Committee
- Geological Society of America—International Division
- Geological Society of America—Journals on CD-ROM
- Geological Society of America—SAGE Program
- Geology Stuff
- Geoscience Information Society
- Hessler Technical Services
- Howard Minerals
- Inco Mining
- Indus International, Inc.
- International Association of Hydrogeologists
- International Conference on Electrical Properties of Soils
- J.L. Darling Corporation
- Joint Oceanographic Institutions
- Kendall Hunt Publishing Company
- Kluwer Academic Publishers
- Komodo Dragon
- Krueger Enterprises/Geochron Labs
- Magellan Systems Corporation
- McGraw-Hill, Inc.
- Mineralogical Society of America
- MJP Geopacks
- Mountain Press Publishing Company
- National Association of Geology Teachers
- National Earth Science Teachers Association
- Nature’s Own
- Oklahoma Geological Survey
- Olson, Donald K., Minerals
- Oxford University Press
- Palaeontological Research Institute
- Palaeontological Society
- Philips Electronic Instruments Company
- Plenum Publishing Corporation
- Prentice Hall
- Princeton University Press
- Rigaku/USA, Inc.
- RockWare, Inc.
- Saunders College Publishing
- Scintag, Inc.
- SEPM (Society for Sedimentary Geology)
- Sigma Gamma Epsilon
- Society of Economic Geologists
- Spectrav Corporation
- SPEX Sample Preparation
- SPI Supplies Division—Structure Probe, Inc.
- Springer-Verlag New York, Inc.
- Tata Graphic Arts, Inc.
- THE Company
- UIC, Inc.
- University of Chicago Press
- University of Georgia
- University of Idaho
- University of Memphis/USGS
- University of New Orleans
- University of Oklahoma
- University of Wyoming
- U.S. Department of Energy—Yucca Mountain Project
- U.S. Department of Energy—Environmental Management Program
- U.S. Geological Survey
- W.H. Freeman & Company
- Washington State University
- West Publishing Company
- Westby Instruments
- Wildlife Supply Company
- Wiley & Sons, Inc.
- Williams & Heintz Map Corporation
- Wm. C. Brown Publishers
- Worth Publishers
- Wright State University
- XRAL Laboratories
- Yale University Press

Food and Beverage Service Available During All Exhibit Hours
Getting To New Orleans

By Air. New Orleans International Airport is located 11 miles from downtown. It is served by most major airlines. GSA’s official travel agent, Travel King East, has negotiated discounted airfares with the major New Orleans carriers: United, Continental, and Delta. Travel King is authorized to obtain the best possible fare and will guarantee it. Call today for the best availability.

To make a reservation, call Travel King at 1-800-458-6398 and identify yourself as a GSA traveler. Tickets can be paid for by check or major credit card, or invoiced to your company. Final payment must reach Travel King no later than 10 days prior to departure to allow for mailing time. After tickets are issued, you are protected from fare increases; if a fare decrease occurs, call Travel King for an adjustment.

As with all airline reservations, please use caution regarding change and cancellation penalties that accompany low-fare tickets. This applies especially to field trip and continuing education participants, whose trip or course may be canceled after the September 29 preregistration deadline. In general, advance bookings with Saturday night stayover requirements are the best route to lowest fares. Travel King is able to waive the Saturday night stayover requirement in many cases.

By Car. Interstate Highways 10, 59, and 13 lace through downtown New Orleans. By Train or Bus. With connections to all major cities, the Amtrak Union Passenger Terminal is located in the central business district at 1001 Loyola Avenue; telephone 1-800-872-7245. The Greyhound Trailways bus line is also located in the Union Pas- senger Terminal at 1001 Loyola Avenue; telephone (504) 525-4206.

Student Travel Grants

The GSA Foundation has awarded matching grants up to a total of $3,500 each to the six GSA sections. The money, when combined with equal funds from the sections, is used to assist GSA Student Associates in attending the 1995 Section meetings and to the Annual Meeting in New Orleans. For applications contact your Section Secretary.

Cordilleras Bruce Blackerby, (209) 278-2915
Rocky Mountain Ken Kolm, (303) 776-2270
North-Central Ken Weaver, (303) 776-2270
South-Central Rene Bonem, (319) 355-2361
Northeastern Karl Edwards, (410) 554-5532
Southeastern Harold Stowell, (205) 348-5098

GSA 1995 Convention Hotels

Please make your reservation with the New Orleans Housing Bureau to get the GSA convention rates. Note: All rooms are subject to an 11% tax and a $1–$2 per night occupancy tax.

1 Hyatt Regency New Orleans

(Headquarters)

French Plaza
(504) 361-1234
650-room block
13 blocks from the Convention Center
Single $138, Double $151

GSA’s social and business functions will be held here. The Hyatt captures the flavor of the Crescent City with rich mahogany, beautiful guest rooms, and a spacious iron grillwork-crafted regional artissans.

Rooms surround a beautiful 27-story open atrium. You can expect excellent Hyatt service, convenience, and comfort. Savory famous New Orleans cuisine in your choice of five restaurants and lounges. The Courtyard specializes in regional dishes with a Cajun flair. Enjoy casual fare and friendly competition in Hottops sports bar.

Take in the spectacular sweeping view from Top of the Dome, the city’s only revolving rooftop restaurant, where regional cuisine is speciality. The health club offers the latest equipment, a large heated swimming pool, and a whirlpool spa. The hotel is adja- cent to the Superdome and New Orleans Center shopping mall, which features Macy’s, Lord & Taylor’s, and dozens of other fine stores. It has free Hyatt shuttle service to the French Quarter and Convention Center. Self and valet parking are available for $10 and $12, respectively.

2 Holiday Inn Superdome

330 Loyola Avenue
(504) 591-1600
200-room block
10 blocks from the Convention Center
Single $95, Double $95

This 18-story modern hotel is a blend of economy and comfort, offering pleasant, spacious guest rooms, each with its own balcony. Dine in the Holiday Streetcar Restaurant, which serves classic Creole and American cuisine, or relax in the Mardi Gras Room. The landscaped rooftop terrace has a heated swimming pool. Start the day with complimentary morning coffee. Indoor self parking is $10.

3 Radisson Hotel

1500 Canal Street
(504) 122-4500
49-room block
13 blocks from the Convention Center
Single $74, Double $84

This recently renovated 18-story landmark hotel is a classic value with a reasonable price. Listed in the National Register of Historic Places, the hotel’s lobby and restaurants serve off traditional Southern ambiance. Enjoy a casual breakfast, lunchroom buffet, or dinner in Praline’s Restau- rant. Levi’s Restaurant and Lounge features specialty items indigenous to New Orleans. Relax in the rooftop pool or hot tub near the sun terrace, or work out in the health club with Universal exercise equipment. Com- plimentary Radisson shuttle to the French Quarter and Convention Center. Valet parking is $15.45.

Getting Around in New Orleans

Car Rental. Alamo is the official car rental agency for the meeting. Identify yourself as a GSA delegate by giving Group ID number #2194 and Plan Code GR to get guaranteed, discounted, daily/weekly rates as follows: economy $30/$159, compact $31/$129, mid-size $37/$129, full-size $39/$179, lux- tory $55/$299. An additional convention discount may be available by having your Alamo agent check Rate Code 9G. Rates include unlimited mileage. An Alamo rental counter is located on the baggage claim level at the airport. Look for the blue and yellow Alamo vans. Advance reservations are recommended. Call Alamo at 1-800-732-3320.

Getting Around in New Orleans

GSA Shuttle. GSA will be providing a daily shuttle beginning Sunday from 7:00 a.m. to 9:00 p.m. from hotels outside the French Quarter to the Convention Center. It is easy to get around on foot, but you should plan for a vigorous walk from downtown hotels to the Convention Center. Refer to the hotel descriptions and the map for distances and shuttle stop information are available by calling (504) 569-2697. Check with your hotel concierge desk for information and drop-off points.

CRUISE VACATION

New Orleans is home port for passenger liners that cruise the Gulf of Mexico and the Caribbean. D.M.I. Travel Agency in New Orleans offers several seven-day cruise packages that start as low as $399 per passenger, based on double occupancy. If you are interested, contact Becky Martin, GSA headquarters, ext. 164.

For information: GSA Meetings, P.O. Box 9140, Boulder, CO 80301

GSA Today, June 1995
HOTELS

GSA has booked rooms at 13 hotels that offer special convention rates. They include a cross-section that should suit a variety of tastes and budgets. Activities will take place at the Ernest N. Morial Convention Center, as well as GSA headquarters hotel, the Hyatt Regency Hotel, and the Doubletree Hotel. The Hyatt Regency is a first-class property for accommodations and service.

The key to getting your first choice is to make your reservations early. Because November is one of the busiest months for tourism in New Orleans, we highly recommend that GSA meeting attendees get their reservations in as early as possible. Convention hotels will fill quickly. All hotel reservations must be processed by the New Orleans Housing Bureau to get the special discounted GSA rate.

TO MAKE YOUR HOTEL RESERVATION

Fill out the official Housing Request Form and either mail, fax, or phone it into the New Orleans Housing Bureau. See the form for the address, fax, and phone number. All reservations must be RECEIVED BY FRIDAY, OCTOBER 6. From the October 6 deadline until October 13, the Housing Bureau will continue to accept reservations, but room will be on a space-available basis only. Most properties will be full by this time; therefore, it is important that you make your reservations early. If you are interested in a suite, please call the hotel of your choice directly, or you may contact the Housing Coordinator at GSA headquarters for information on hotel availability. Note that most hotels will be filled by October 6, and hotels will only be able to offer the special GSA rate on an as-available basis. Under no circumstance should they be offering a room at a higher rate.

ASSIGNMENT

Hotel rooms will be assigned on a first-come, first-served basis. Please list your first six hotel choices in order of your preference. If the hotels you have chosen are full, the Housing Bureau will review your selection preference. Be sure to mark either (1) proximity to convention center or (2) comparable room rate. You will receive a confirmation from the Housing Bureau with your hotel assignment. Check all information carefully for accuracy, including arrival date, departure date, and deposit information. If you do not receive a confirmation within two weeks, contact the Housing Bureau to check the status of your reservation. You will not receive a confirmation from your hotel until after October 13.

ROOM DEPOSITS

Reservations must be guaranteed. A $100 deposit is required to make your reservation, assuming you that no matter what time you arrive on your scheduled arrival day, your room will be held until 6:00 a.m. the following morning. Deposits can be made by providing credit card information or by sending payment directly to the GSA Housing Bureau. The Housing Bureau will accept only Visa, MasterCard, and American Express credit cards. Your credit card will be charged when you make your reservation.

CHANGES AND CANCELLATIONS

Changes and cancellations BEFORE Friday, October 13, should be communicated to the Housing Bureau. AFTER October 13, you should contact the hotel directly with any changes. Please note that a cancellation notice must be received by the hotel AT LEAST 72 hours in advance to receive a refund on your deposit. The hotel has the right to keep your $100 deposit if you fail to properly cancel a confirmed reservation.

SPECIAL NEEDS

The Americans with Disabilities Act ensures that barriers-free hotel rooms will be available to GSA registrants. Those with special needs should specify this on the Housing Form. After inspecting all GSA properties, we recommend that disabled registrants consider the Crowne Plaza Hotel or Embassy Suites, which are close to the convention center and fully accessible. The Hyatt Regency is also accessible but would require riding the shuttle. For questions, please contact Becky Martin, GSA headquarters, ext. 164.

STUDENT HOUSING

Outside of the downtown area in the Garden District on the historic St. Charles Avenue streetcar line, reasonably priced rooms have been reserved. Convenient public streetcar transportation can get you to the convention center. The streetcars are safe and will take approximately 20–25 minutes. Make your reservation for these properties on the Housing Request Form, except for the Ramada Inn. You must call the Ramada directly and mention GSA to get the discounted rate listed below.

Quality Inn Maison (12) 20 rooms blocked $89 (1–4 people) 1119 St. Charles Avenue New Orleans, LA 70116 (504) 522-0187 Declared a historical property by the U.S. Department of Interior, with five antebellum suites and several courtyards. Restaurant, lounge, pool, jacuzzi. Parking is $6.

The Pontchartrain (13) 13 rooms blocked $73 (1–2 people) 2011 St. Charles Avenue New Orleans, LA 70116 (504) 524-0581 Set amid beautiful old mansions, this quaint property was fully restored in 1991. The European-style hotel is home to the locally famous Caribbean Room restaurant. For casual breakfasts and lunches, Cafe Pontchartrain of property, while the Bayou Bar lends atmosphere for drinks. Valet parking is $10.

Avenue Plaza Hotel (14) 60 rooms blocked $89 (1–4 people) 115 St. Charles Avenue New Orleans, LA 70130 (504) 566-1212 The Avenue Plaza Hotel features a rooftop sun-deck with hot tub, courtyard heated swimming pool, 18th century antebellum home, and European spa, health club, and beauty spa. Some rooms feature wet bar, coffee maker, and refrigerator.

Ramada Inn* (15) 40 rooms blocked $79 (1–4 people) 2203 St. Charles Avenue New Orleans, LA 70116 (504) 566-1200 (*Call Ramada direct; do not use housing form.) This small hotel of 130 rooms has a full-service restaurant, lounge, and room service. The comfortable family restaurant serves lunch, breakfast, and dinner featuring fresh Louisiana seafood and Creole favorites. Valet parking is $6.

ALTERNATIVE LODGING

Motel

Resting the high cost of lodging is a priority for GSA. • Check your library copy of the Hotel and Motel Redbook, which lists metro properties. Because of the hundreds of properties outside the area, GSA cannot provide a complete list.

• Call 1-800-555-1212 or check the Yellow Pages to learn the 800 number for your favorite hotel chains, such as Super 8 Motel or Comfort Inn, which have properties outside the downtown area. You will need to provide your own transportation.

4 Chateau Sonesta Hotel 800 Bienville Street (504) 553-2339 125-room block 10 blocks from the Convention Center Single $110, Double $110

The Chateau Sonesta is a new property, which opened in April this year. This charming and distinctive French Quarter hotel is a completed restoration and reconfiguration of the historic Holmes Department Store building, completed in 1949. This New Orleans landmark closed in 1989. The new exterior has been restored to the building’s neoclassic design. Many of the rooms have balconies overlooking either Bourbon Street or the interior pool and tropical courtyard. The La Chateleine Restaurante features seafood, creole, and traditional cuisine. The Clock Lounge is a fun place to relax for a cocktail. Indoor parking is $14 per day.

5 Bourbon Orleans Hotel 717 Orleans Avenue (504) 525-2222 150-room block 15 blocks from the Convention Center (Please note that the closest GSA shuttle stop is 5 blocks from the hotel) Single $105, Double $115

Located in the French Quarter, this English-style hotel with Southern hospitality captures the soul and grace of 19th century New Orleans. From individual balconies, experience the hustle and bustle of the street or the tranquility of the inner courtyard overlooking the swimming pool. All rooms feature Chippendale and Queen Anne furnishings, marble bath, two telephones, coffee maker, and morning newspapers. The lobby lounge serves complimentary hors d’oeuvres nightly. Full meal service is available in the hotel restaurant or through 24-hour room service. Valet parking is $12.

6 Hotel Monteleone 214 Royal Street (504) 523-3341 180-room block 9 blocks from the Convention Center Single $112, Double $112

While the building’s facade and main interior reflect the hotel’s grand past, the newly renovated guest rooms have all the modern conveniences. Maintain a healthy lifestyle in the health club, which includes a new exercise facility and a rooftop patio with heated pool and a sky’s-eye view of the Mississippi River. For breakfast, lunch, or dinner you will want to drop by LeCafe for local fare in a casual atmosphere. The 24-Dock Oyster Bar offers friendly service and seafood specialties. This is the largest full-service hotel in the French Quarter, complete with everything from a business center to a beauty salon. Parking is $10 per day with in and out privileges.

7 Le Pavillon Hotel 831 Pryor Street (504) 381-1111 150-room block 10 blocks from the Convention Center Single $105, Double $120

European grandeur in the New Orleans Business District since 1907. The historic Le Pavillon lobby is highlighted with magnificent crystal chandeliers and Italian marble floors. Beautifully appointed guest rooms, with American and European antique furnishings and original artwork commemorate the ornate architecture on all guest floors and in public areas. The hotel offers a full-service restaurant open for breakfast, lunch, and dinner, heated rooftop pool and patio, fitness center, and complimentary continental breakfast. A variety of plated breakfasts served in the lobby nightly. Valet parking is $15 per day with in and out privileges.

GSA TODAY, June 1995

GSA Housing Deadline: October 6
### GSA Convention Hotel Rates

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<thead>
<tr>
<th>Hotel Name</th>
<th>Single</th>
<th>Double</th>
<th>Triple</th>
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<tbody>
<tr>
<td>Hyatt Regency New Orleans</td>
<td>$138</td>
<td>$153</td>
<td>$168</td>
<td>$183</td>
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<tr>
<td>Holiday Inn Superdome</td>
<td>$94</td>
<td>$94</td>
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<td>Radisson Hotel</td>
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<td>Chateau Sonesta Hotel</td>
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<td>Bourbon Orleans Hotel</td>
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<td>Hotel Monteleone</td>
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<td>Le Pavillon Hotel</td>
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</tr>
<tr>
<td>Embassy Suites</td>
<td>$115</td>
<td>$115</td>
<td>$115</td>
<td>$115</td>
</tr>
<tr>
<td>Quality Inn Maison (indents only)</td>
<td>$89</td>
<td>$89</td>
<td>$89</td>
<td>$89</td>
</tr>
<tr>
<td>Windsor Court Hotel</td>
<td>$195</td>
<td>$195</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Crowne Plaza Hotel</td>
<td>$137</td>
<td>$127</td>
<td>$115</td>
<td>$115</td>
</tr>
<tr>
<td>Doubletree Hotel</td>
<td>$115</td>
<td>$115</td>
<td>$115</td>
<td>$115</td>
</tr>
<tr>
<td>Avenue Plaza Hotel (indents only)</td>
<td>$89</td>
<td>$89</td>
<td>$89</td>
<td>$89</td>
</tr>
<tr>
<td>Ramada Inn (indents only)</td>
<td>$79</td>
<td>$79</td>
<td>$79</td>
<td>$79</td>
</tr>
</tbody>
</table>

| Quality Inn Mansion (indents only) | $89 | $89 | $89 | $89 |
| Avenue Plaza Hotel (indents only) | $89 | $89 | $89 | $89 |
| Ramada Inn (indents only)         | $79 | $79 | $79 | $79 |

### Key Points
- **Doubletree Hotel**: Located in the Warehouse District, offers friendly service and reasonable prices, and is convenient to everything. Includes a full American buffet breakfast daily. Valet parking is $12 per day.
- **Windsor Court Hotel**: Located 2 blocks from the Convention Center. Offers a variety of dishes, or you can call room service. Stay fit using the exercise facility and outdoor pool. Self and valet parking are available for $8 and $12, respectively.
- **Embassy Suites**: Located 2 blocks from the Convention Center. Single $115, Double $115.
- **Crowne Plaza Hotel**: Located 3 blocks from the Convention Center. Single $117, Double $117.

*For information: GSA Meetings, P.O. Box 9140, Boulder, CO 80301*
Complete this form, then mail, fax, or phone to:

**Mail:** GSA HOUSING BUREAU
1520 Sugar Bowl Drive
New Orleans, LA 70112

**Phone:** 1-800-345-1187 (U.S. and Canada)
1-504-566-5005 (International)

**Fax:** 1-504-522-6123

Please do not duplicate this reservation, by phoning, faxing and mailing this form. Please read all hotel information prior to filling out this form. Reservations are processed on a first-come, first-served basis. If more than one form is required, this form may be photocopied. Confirmations will be sent by mail. Be sure to keep a copy for your records.

**NAME OF OCCUPANT**

<table>
<thead>
<tr>
<th>First Name</th>
<th>M.I.</th>
<th>Last Name</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>Company Name</th>
</tr>
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<tbody>
<tr>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Street address or P.O. Box Number</th>
</tr>
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<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City</th>
<th>State</th>
<th>U.S. ZIP code</th>
</tr>
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<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Country</th>
<th>Area Code</th>
<th>Daytime Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

**Arrival Date:** ______________  **Time:** _________a.m./p.m.  **Departure Date:** ______________  **Time:** _________a.m./p.m.

**TYPE OF ACCOMMODATION:**

- **Single**  1 person, 1 bed
- **Double**  2 people, 1 bed
- **Double/Double**  2 people, 2 beds
- **Triple**  3 people, 2 dbl. beds
- **Quad**  4 people, 2 dbl. beds

**Special Needs:**

- Non-Smoking Room
- Special Room Requirements ___________________________________________________________________

**HOTEL PREFERENCE:**

1. ________________________________
2. ________________________________
3. ________________________________
4. ________________________________
5. ________________________________
6. ________________________________

If all six requested hotels are unavailable, please process this reservation form according to:

- Comparable Room Rate
- Proximity to Convention Center

**RESERVATION DEPOSIT:**

All reservations must be accompanied by a $100 (U.S. funds) deposit. You may guarantee your reservation by providing credit card information below, or by mailing a check to the Bureau payable to GSA Housing Bureau.

Name as it appears on card _____________________________________________________________________________________

<table>
<thead>
<tr>
<th>Card Type</th>
<th>Card No.</th>
<th>Exp. Date</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

Authorized Signature __________________________________________________________________________________________

**ROOMMATES:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

Courtesy of LSU Earth Scanning Laboratory. Data from NOAA.
**REGISTRATION**

Preregistration is due at GSA no later than September 29, 1995.

By October 20, preregistrants will be sent their badges PLUS a diskette of technical sessions, exhibits, and social events.

**Save!**
- $40 (professional) and $20 (student) by preregistering.
- an additional $40 (professional) and $20 (student) for nonmembers by joining GSA now.

**REGISTRATION FEES:**

<table>
<thead>
<tr>
<th></th>
<th>Full Meeting</th>
<th>On-Site</th>
<th>One Day</th>
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</thead>
<tbody>
<tr>
<td>Advance—by 9/29/95</td>
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</tr>
<tr>
<td>Professional Member</td>
<td>$195</td>
<td>$235</td>
<td>$118</td>
</tr>
<tr>
<td>Professional Nonmember</td>
<td>$235</td>
<td>$275</td>
<td>$138</td>
</tr>
<tr>
<td>Student Member</td>
<td>$ 70</td>
<td>$ 90</td>
<td>$ 45</td>
</tr>
<tr>
<td>Student Nonmember</td>
<td>$ 90</td>
<td>$110</td>
<td>$ 55</td>
</tr>
<tr>
<td>Guest or Spouse</td>
<td>$ 80</td>
<td>$100</td>
<td>n/a</td>
</tr>
<tr>
<td>K-12 Teacher</td>
<td>$ 25</td>
<td>$ 35</td>
<td>n/a</td>
</tr>
<tr>
<td>Cont. Ed./Field Trip</td>
<td>$ 35</td>
<td>$ 35</td>
<td>n/a</td>
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</tbody>
</table>

**ACCESSIBILITY FOR REGISTRANTS WITH SPECIAL NEEDS**

GSA is committed to making the Annual Meeting accessible to all people interested in attending. If you need any auxiliary aids or services because of a disability, check the appropriate box on the registration form. If you have suggestions or need further information, contact Becky Martin, ext. 164, GSA headquarters. Please let us know your needs by October 6.

**CHILD CARE**

Day care service may be provided if there is sufficient interest. Please call Kathy Lynch, GSA headquarters by August 15, ext. 114.

**COMPUTER AND OFFICE CENTER**

Sunday through Thursday, November 5–9; Ernest N. Morial Convention Center.

GSA will provide registrants and exhibitors with PCs, laser printers, copiers, fax, and general office supplies. There is no need to lug along your heavy laptop computer! For a minimal fee, this equipment will be available for your use to produce reports, transparencies, or last-minute fliers.

**INFORMATION AND MESSAGES**

Saturday through Thursday, November 4–9, sponsored by Fisons Instruments.

A GSA information and message desk will be available during the meeting. We are happy to take messages on your behalf. The computerized message boards will be at the Convention Center. Leave the following numbers for your home and office:

- Ernest N. Morial Convention Center (504) 544-6217
- Hyatt Regency Hotel (504) 561-1234

**NEWS ROOM**

Sunday through Thursday, November 5–9; Ernest N. Morial Convention Center.

The News Room provides information on many topics for release to the news media. Please let us know of material that is noteworthy for the science or general press. Members of the press may receive complimentary registration with appropriate press credentials by contacting Sandra Rush, (303) 443-8489, or June Forstrom, GSA Communications Department, ext. 137, E-mail: forstrom@geosociety.org.

**TOURIST INFORMATION**

Greater New Orleans Tourist Commission
1520 Sugar Bowl Drive
New Orleans, LA 70112
(504) 566-5011, fax 504-566-5046

**WEATHER**

The average daily temperature in New Orleans for November can be a high of 73°F and a low of 38°F. A jacket and umbrella are recommended for cool evenings or rain showers.

**CONVENIENCE INFORMATION**

**FREE!**

GSA Technical Sessions on the Web—and on Disk!

Look for the technical program on GSA’s Web site in August. You can download sessions, events, exhibits and courses together with a basic search and sorting software that will create a personal daily calendar.

In addition, preregistrants can choose to receive a 3½ disk in advance with the same capabilities. This will be mailed in October with your badge. Formats are for IBM and Macintosh, and need 3MB of hard disk space.

☐ To order the disk, please use the check box on the preregistration form.
**GUEST ACTIVITIES**

- 1 Boyce Bridging, Sun.   (20) $25 $ _______  
- 2 Wine Tasting  
- 3 Honey Island Swamp  
- 4 Historic Cov. Lunch, Mon.   (20) $5 $ _______  
- 5 Lazy River  
- 6 Great Gulf, Wed.   (27) $10 $ _______  

**SPECIAL EVENTS**

- 1 Romantic Dinner Cruise, Sat.   (06) $38 $ _______  
- 2 GSA Discount Jazz Jam Sat.   (41) $7 $ _______  
- 3 Phi Beta (optional: fee)  
- 4 Aquarium Evening, Wed.   (20) $50 $ _______  

Total Column B $ _______  

**TICKETED MEAL FUNCTIONS**

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
<th>Type</th>
<th>Price</th>
<th>Quantity</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 GSA Ed. Dir. Breakfast, Mon.</td>
<td>(06) $25</td>
<td>100</td>
<td>$2,500</td>
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<tr>
<td>2 History Cov. Luncheon, Mon.</td>
<td>(06) $50</td>
<td>100</td>
<td>$5,000</td>
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<tr>
<td>3 NAGS Luncheon, Mon.</td>
<td>(06) $75</td>
<td>100</td>
<td>$7,500</td>
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<tr>
<td>4 GSA Dinner, Tues.</td>
<td>(06) $75</td>
<td>100</td>
<td>$7,500</td>
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<tr>
<td>5 GeoSci. Luncheon, Tues.</td>
<td>(06) $75</td>
<td>100</td>
<td>$7,500</td>
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<tr>
<td>6 BBQ Luncheon, Tues.</td>
<td>(06) $75</td>
<td>100</td>
<td>$7,500</td>
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<tr>
<td>7 Geological Soc. Luncheon, Tues.</td>
<td>(06) $75</td>
<td>100</td>
<td>$7,500</td>
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<tr>
<td>8 Student Luncheon, Tues.</td>
<td>(06) $75</td>
<td>100</td>
<td>$7,500</td>
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</table>

Total Column C $ _______  

**MAIL**

GSA Annual Meeting  
P.O. Box 9140, Boulder, CO 80301-9140  
(303) 447-1133 or (303) 447-0648  
Credit card use only. Our fax line is open 24 hours.  
Do not send another copy in the mail.  

**PHONE**

(303) 447-2020, ext. 184  
GSA reserves the right to use your address for mailings.  
Have your member number and complete information ready.  
Do not send another copy by mail.  

---

Please inform us by October 6 of any special considerations that you or your guest require.  

**On-Site Registration Schedule**

**Ernest N. Morial Convention Center, Hall A**

- Saturday, November 4  
- 7:00 a.m. to 5:00 p.m.  
- Sunday, November 5  
- 9:00 a.m. to 5:00 p.m.  
- Monday, November 6  
- 7:00 a.m. to 4:30 p.m.  
- Tuesday, November 7  
- 7:00 a.m. to 4:30 p.m.  
- Wednesday, November 8  
- 7:00 a.m. to 4:30 p.m.  
- Thursday, November 9  
- 7:00 a.m. to 11:00 a.m.
ADVANCE-COPY PURCHASE ORDER FORM
1995 Abstracts with Programs • Volume 27, Number 6

Prepayment is required. Check, money order (in U.S. funds, payable on U.S. banks), or major credit cards are accepted. Orders directly from GSA Publication Sales by mail, phone, or fax. To assure receipt prior to the meeting, all orders must be received by Thursday, August 17.

SEND TO: GSA Publication Sales, P.O. Box 9140, Boulder, CO 80301
1-800-472-1988 • (303) 447-2020 • fax 303-447-1133

Orders must by received by August 17

ON-SITE PURCHASE
Copies of Abstracts with Programs will be for sale at the Convention Center. Price: $22 net each. No additional discounts apply.

RETURN THIS FORM BY THURSDAY, AUGUST 17. THIS ADVANCE PURCHASE OPTION IS ONLY FOR THOSE RESIDING IN U.S., CANADA, AND MEXICO. NO REFUNDS GIVEN FOR DUPLICATE ORDERS. COPY THIS FORM FOR YOUR RECORDS.

ABSTRACTS WITH PROGRAMS

ADVANCE-COPY PURCHASE
1995, Volume 27, Number 6
PRICE $22 NET EACH

If you reside in the United States, Canada, or Mexico you may take advantage of the advance-copy purchase option of the Annual Meeting, Abstracts with Programs. Due to prohibitive airmail costs and delays for overseas mailings, we regret that we cannot make this offer to everyone. Copies will be mailed about three weeks prior to the meeting. 

The volume will also be for sale at the meeting. Note: Your registration does not include a copy of the Abstracts volume. Please check to make sure that you have not already purchased a copy on your membership dues statement or through GSA Publication Sales. No refunds will be given for duplicate orders.

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(prepayment required)

☐ Check or money order enclosed
☐ Credit card (check one) MC VISA AmEx Diners

Card No. Exp. Date

Quantity _______ at $22 net each (no additional discounts)

Amount enclosed $ ______________

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GSA Publication Sales, P.O. Box 9140, Boulder, CO 80301
1-800-472-1988 • (303) 447-2020 • fax 303-447-1133

By mail or fax, use the form provided.
By phone, call toll-free 1-800-472-1988, or use our business phone (303) 447-2020 during office hours 8:00 a.m. to 4:30 p.m. MT.

ABSTRACTS DUE JULY 12
For abstract forms (303) 447-2020, ext. 161;
E-mail: ncarlson@geosociety.org

PREREGISTRATION DUE SEPTEMBER 29

Geological Society of America

ISSN 1052-5173

NEW ORLEANS
BRIDGING THE GULF

1995 ANNUAL MEETING
New Orleans, Louisiana • November 6–9

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E-mail: meetings@geosociety.org

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