



GSA **news & information**

Volume 4, Number 7

July 1982

G.S.A. ARCHIVES

The Geological Society of America 95th Annual Meeting

The Paleontological Society (74th)
The Mineralogical Society of America (63rd)
The Society of Economic Geologists (62nd)
Cushman Foundation (33rd)
Geochemical Society (27th)
National Association of Geology Teachers (23rd)
Geoscience Information Society (17th)

**October 18-21, 1982
Hyatt Regency Hotel
Louisiana Superdome**



*New Orleans New Orleans New Orleans
New Orleans New Orleans New Orleans*

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Important Information

Call the GSA Meetings Department at (303) 447-2020 for information prior to the Annual Meeting. During the meeting—Sunday, October 17 through Thursday, October 21, 8:00 a.m. to 5:00 p.m.—call (504) 529-9582.

Official GSA Functions

GSA Presidential Address, Monday, October 18, 4:00 p.m. to 5:00 p.m. at the Superdome. Digby McLaren will present his data and ideas on "Bolides and Biostratigraphy."

GSA Corporate Meeting, Tuesday, October 19, 8:00 a.m. to 8:30 a.m. at the Hyatt Regency. The meeting will be unopposed and will include a question-and-answer session.

GSA Annual Dinner, Wednesday, October 20, 7:00 p.m. to 10:00 p.m. at the Hyatt Regency. During the banquet ceremonies, the Day and Penrose Medals will be presented.

Technical Program



The technical program consists of volunteered sessions, symposia, and poster presentations. The list of symposia appears below, but the program schedule will not be completed until the end of June. A summary of the final schedule will appear in the September issue of *GSA News & Information*.

SYMPOSIA 1982

1. **Archeological Geology of Egypt and the Sudan:** Archeological Geology Division; Claude Albritton and James E. Brooks.
 2. **Update on Gulf Coast Lignites:** Coal Geology Division; Jack Crelling.
 3. **Engineering Geologic Lessons Learned from History:** Engineering Geology Division; Chris Mathewson and George Kiersch.
 4. **Structure and Geophysics of Foreland Thrust Belts: Projection of Surface Structure to Depth in the Appalachian and Cordilleran Orogens (full day):** Geophysics Division and Structural Geology and Tectonics Division (combined symposium); David Dunn and J. H. Robinson.
 5. **The Development of North American Geology: 1881 to the Present:** History of Geology Division; Ellen T. Drake.
 6. **1982 Centennial Frontier Symposium: Terrestrial Geology Concepts Influenced by Planetary Geology:** Planetary Geology Division; Leon T. Silver.
 7. **Quaternary Geology and Chronology of Arctic Areas:** Quaternary Geology and Geomorphology Division; John T. Andrews.
 8. **Tertiary Foraminifera of the Gulf Coast:** Cushman Foundation; Barun K. Sen Gupta and Ed Picou.
 9. **Organic Geochemical and Mineral Deposits:** Geochemical Society; Thomas C. Hoering.
 10. **Geologic Hazards Data:** Geoscience Information Society; Regina Brown.
 11. **Application of Quantum Chemistry to Earth Materials:** Mineralogical Society of America; G. V. Gibbs.
 12. **Recent Advances in Tectonics—Implications for Instruction:** National Association of Geology Teachers; John R. Carpenter.
 13. **Paleobiology of Hydrocarbon-Rich Strata:** E. G. Kauffman, R. W. Scott.
 14. **Gold in Volcanic Environments:** Society of Economic Geologists; John E. Frost.
 15. **Geology of the Ellsworth Mountains, West Antarctica:** Campbell Craddock, John Spletstoesser, Mort Turner, and Gerald Webers.
 16. **Stratigraphy and Depositional History of the United States Atlantic Margin:** C. Wylie Poag.
 17. **The Ouachita Orogen:** William B. Thomas and George Viele.
 18. **Tectonic Evolution and Early Geologic History of the Gulf of Mexico and Its Margins:** Rex Pilger and Richard Buffler.
 19. **North American Continent—Ocean Transects (full day):** United States Geodynamics Committee; Robert C. Speed.
 20. **Mafic and Ultramafic Rocks of the Appalachian Orogen:** Kula C. Misra and Harry Y. McSween.
- ## SUNDAY "AT LARGE" SYMPOSIA
21. **The Geochemistry of Radionuclide Migration/Retardation (full day):** Geochemical Society; Judith B. Moody and Thomas Wolery.
 22. **Evolution and Creationism: A Geological Perspective:** Paleontologic Society; Arthur Boucot.
 23. **The Role of Stratigraphic Geology in Natural Hazard Evaluation:** GSA Committee on Geology and Public Policy; Vic Baker and L. W. Lungren.
 24. **Amino Acid Geochronology: Applications to Late Cenozoic Geology (full day):** Quaternary Geology and Geomorphology Division; Gifford H. Miller, P. E. Hare, and John F. Wehmiller.
 25. **The First Aeromagnetic Map of the U.S. Interpretations and New Concepts:** Isidore Zeitz.

Workshops, Forums, and Colloquia

Workshops

MASSIVE SULFIDES IN SUBMARINE VOLCANIC ROCKS

Sunday, October 17, Hyatt Regency, 8:30 a.m. to 4:30 p.m. Sponsored by SEG and organized by Hiroshi Ohmoto (Penn State) and members of the U.S.-Japan-Canada Cooperative Research Project. The workshop is designed for students but anyone is welcome to attend. There is no fee. For further information: Hiroshi Ohmoto, Department of Geological Sciences, Penn State, University Park, PA 16802, (814) 865-6711.

GEO-WRITING: QUICKLY. CLEARLY. CONCISELY

Two one-day workshops on Saturday, October 16, 8:30 a.m. to 5:00 p.m., and Sunday, October 17, 8:30 a.m. to 5:00 p.m. Sponsored by AGI. The course includes how to break writer's block, how to write for different situations and publications, and how to write easily and clearly. Instructor: AGI's Wendell Cochran. Fee: \$70. For further information: Wendell Cochran, GEOTIMES, 5205 Leesburg Pike, Falls Church, VA 22041, (703) 379-2480.

MANUAL SEARCH/MATCH METHODS

For the *JCPDS Powder Diffraction File*, with emphasis on the *Minerals Subfile* as well as *New Developments* in the content of the file. Sunday, October 17, 2:00 p.m. to 6:00 p.m. Sponsored by International Centre for Diffraction Data (JCPDS). Preregistration is necessary and the attendance will be limited to 50. Fee: \$30. For further information: Julian Messick, JCPDS, 1601 Park Lane, Swarthmore, PA 19081, (215) 328-9400.

Forums

GSA PUBLIC FORUM

Sunday, October 17, Hyatt Regency, 2:00-4:00 p.m. *Venera*, *Venus Pioneer*, and *Voyager: New Data on Geologic History and Dynamics* from Space Exploration. Dr. Harold Masursky, planetary geologist (USGS, Flagstaff, Arizona) will present slides and films utilizing current data from U.S. and Soviet space exploration programs. These new data relate to the evolution of the crust of Venus and point to the need for revising fundamental concepts concerning the causes of volcanic and tectonic activity. The new Soviet Lander data show that the Venus lowlands and volcanic constructs are very similar chemically to terrestrial ones. The surface panoramas show striking lava flows that confirm the chemical analyses. From these data, a new story of the early history of Venus, as a wet planet, can be developed. This hypothesis outlines an active, complex, and continuing geologic history of Venus that is very different from that of the Earth. Why did the two planets with similar origins develop so differently? Masursky's fascinating inquiry will explore the newest ideas on plate tectonics and planetary life forms and their possible relationships.

GSA EMPLOYMENT SERVICE FORUM: FUTURE EMPLOYMENT OPPORTUNITIES IN THE GEOLOGICAL SCIENCES

Monday, October 18, 1:00 p.m. to 3:00 p.m., Hyatt Regency. Anyone interested in an overview of employment opportunities, salary scales, and current trends in academia, government, industry, and consulting is cordially invited to attend. Six highly qualified panel members will speak briefly on the outlook in their special areas and answer questions from the audience. For further information: Clara Hodgson, Membership Coordinator, GSA, P.O. Box 9140, Boulder, CO 80301, (303) 447-2020.

Discussion

FEDERAL MARINE GEOLOGICAL ACTIVITIES

Sunday, October 17, Hyatt Regency, 4:00 p.m. to 6:00 p.m. Informal discussion with representatives from Federal agencies to summarize their program activities and directions in marine geology. For further information: Dr. James B. Rucker, National Oceanic & Atmospheric Administration, 6010 Executive Blvd., Rockville, MD 20852, (301) 443-8963.

Colloquium

WOMEN'S CAREERS IN THE GEOSCIENCES—AN UPDATE

Sunday, October 17, Hyatt Regency, 1:00 p.m. to 4:30 p.m. The colloquium will focus on the changes that have occurred over the past six years in career opportunities for women in the geosciences. A previous colloquium on women in the geosciences was presented at GSA in 1976. This update will address the changes that have taken place since 1976, as well as future prospects for women in the geosciences. Moderator: Elisabeth G. Newton, Minerals Management Service and Chairman of the AGI Women Geoscientists Committee. Speakers: Catherine Skinner (Yale), Dallas Peck (Director, USGS), Laurie Brown (University of Massachusetts), Dale Springer (Amherst College), Linda Dutcher (Consulting Geologist), Priscilla Grew (Cal. Public Utilities Comm.), Doris Curtis (Curtis & Echols Consultants), Penelope Hanshaw and Bruce Hanshaw (USGS). For further information: Elisabeth G. Newton, Minerals Management Service, National Center, MS 651, Reston, VA 22091, (703) 860-7506.

Short Courses

DELTAS—THEIR APPLICATION TO OIL, GAS, AND COAL EXPLORATION

Sun., Oct. 17, Hyatt Regency, 9:00 a.m.–4:30 p.m. Sponsored by GSA. The purpose is to advise those searching for oil and gas in sediments of deltaic origin. This course is highly popular and has been presented for other geoscience associations and corporations. Early registration is recommended. Instructor: Ram Saxena, President of GeoConsultants International, Inc. Fee: \$40, includes course materials. Preregistration only. Register on the annual meeting registration form and send to GSA. (Annual meeting registration is not a prerequisite.) For further information: Ram Saxena, GeoConsultants International, Inc., P.O. Box 1418, Kenner, LA 70063, (504) 466-2323.

REMOTE SENSING—IMAGE INTERPRETATION FOR GEOSCIENTISTS

Sun., Oct. 17, Hyatt Regency, 9:00 a.m.–5:00 p.m. Sponsored by GSA. The course provides equal time for lectures and for “hands-on” interpretation of representative images by participants. Lectures and interpretation projects cover the major aspects of remote sensing – Landsat, thermal infrared, and radar images, plus digital processing of image data. Instructor: F. F. Sabins, Sr. Research Associate, Chevron Oil Field Research Company. Fee: \$60, includes “Remote Sensing Laboratory Manual” and “Instructor’s Key for Remote Sensing Manual.” Preregistration only. Register on the annual meeting registration form and send to GSA. (Annual meeting registration is not a prerequisite.) For further information: F. F. Sabins, Chevron Oil Field Research Company, P.O. Box 446, LaHabra, CA 90631, (213) 694-7370.

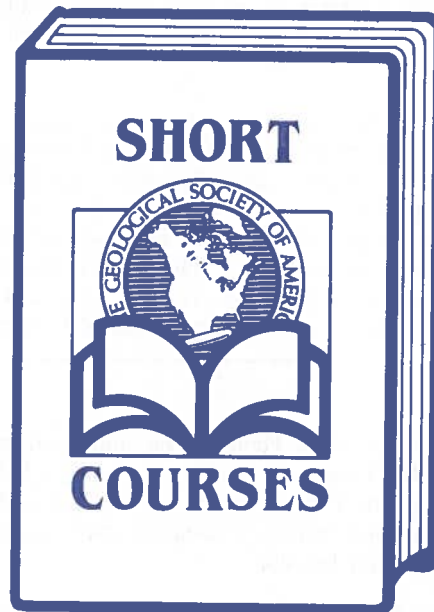
CHARACTERIZATION OF METAMORPHISM THROUGH MINERAL ASSEMBLAGES AND MINERAL CHEMISTRY

Fri., Oct. 15, 8:00 a.m.–5:00 p.m., Sat., Oct. 16, 8:00 a.m.–5:00 p.m., with an evening workshop, and Sun., Oct. 17, 8:00 a.m.–12:00 noon, at the Hyatt Regency. Sponsored by MSA. An introductory party will be held Thursday evening, Oct. 14, 6:00 p.m.–7:00 p.m. at the Hyatt Regency. The following topics will be covered: (a) strategies of algebraic and graphical analysis of mineral equilibria; (b) determination of equilibrium pressure, temperature, and fluid composition; (c) mineral inclusions and compositional zoning in minerals; (d) stable light-isotope composition of metamorphic rocks and minerals; (e) buffering phenomena; (f) applications of the reaction progress variable. Short course lectures will form the basis of Volume 10 of the MSA series, “Reviews in Mineralogy.” Authors/speakers are E. J. Essene (University of Michigan), J. M. Ferry (Arizona State University), D. M. Kerrick (Penn State), J. M. Rice (Uni-

versity of Oregon), D. Rumble (Geophysical Laboratory), F. S. Spear (MIT), J. B. Thompson, Jr. (Harvard), and R. J. Tracy (Yale). For further information: MSA Metamorphism Short Course, J. M. Ferry, Department of Geology, Arizona State University, Tempe, AZ 85287, (602) 965-4093.

INTRODUCTION TO DUCTILE DEFORMATION

Sat., Oct. 16, and Sun., Oct. 17. Sponsored by Structural Geology & Tectonics Division. The course is designed for nonspecialists and will cover ductile deformation of quartz, feldspar, calcite, olivine, and pyroxene. Lectures will be given by several experts including the organizer, Dr. Jan Tullis. For more information: Dr. Jan Tullis, Department of Geological Sciences, Brown University, Providence, RI 02912, (401) 863-2240.



Field Trips

All field trip registrants must also register for the annual meeting.

Registration Deadline: September 17, 1982

Preregistration for a field trip is very important. Use the official field trip registration form included in this announcement. **FULL PAYMENT MUST ACCOMPANY PREREGISTRATION.** Unpaid purchase orders are not accepted as valid registration. Field trip Preregistration forms **MUST BE RECEIVED AT GSA HEADQUARTERS, BOULDER, NO LATER THAN SEPTEMBER 17, 1982.** On-site registration for trips originating in New Orleans **MAY** be possible for those trips not fully subscribed. For trips originating outside New Orleans prior to the meeting, late registration may be possible by contacting the Field Trip Coordinator or the Field Trip Chairman.

Trips are technical in nature and can be physically rigorous. Participants will be selected on a first-come, first-served basis.

1982 FIELD TRIPS

All Trips Will Begin And End In New Orleans Unless Otherwise Indicated In The Field Trip Descriptions. New Orleans Trips Will Depart From The Front Of The Hyatt Regency Hotel.

For those trips not originating or terminating in New Orleans, participants should be prepared to make their own arrangements for transportation, either to the point of origin or from termination point, and be responsible for any lodging or meals necessary.

Services: The cost of all field trips includes transportation on the trips, lunches, and (except for one-day trips which leave and return to New Orleans) overnight lodging during the trip. Where it was possible to arrange for good meals on a group basis and at a reasonable price, breakfasts and lunches are also included. Details of what is included in the cost of each trip, as well as the itinerary, are given in the information sheets that will be sent to all registrants. The information may also be obtained from the

Cancellation, Final Day: October 1, 1982

Cancellation or change of field trip reservations must be made in writing and must be received by the Field Trip Coordinator, GSA headquarters, Boulder, **NO LATER THAN OCTOBER 1, 1982**, to be eligible for refund. All refunds will be subject to a \$10 processing fee. **PREREGISTRANTS PLEASE NOTE:** there will be no refunds for premeeting trips after this date; refunds may be possible for postmeeting trips **ONLY** if the reserved place is filled by on-site registration. There will be absolutely no refunds for those who register on-site.

In addition, there will be no discount or refund for special travel arrangements made by individuals in conjunction with any field trip. Personal vehicles are not permitted.

Field Trip Coordinator, GSA, P.O. Box 9140, Boulder, CO 80301, (303) 447-2020, or from the Field Trip Chairman, C. G. Groat, Louisiana Geological Survey, Box G, University Station, Baton Rouge, LA 70893, (504) 342-6754.

Weather and Clothing: October weather in the Gulf Coast Area varies from mild and sunny to cool and wet. Participants are urged to bring suitable field clothes for moderately inclement weather. Where individual trips may encounter different conditions, appropriate comments will be included in the information sheet that will be sent to each registrant for a trip. For most of the trips, medium-weather, multi-purpose jackets should provide suitable protection, and rain gear is also desirable.

PREMEETING

1. Lignite of the Gulf Coastal Plain: Texas and Louisiana. John E. Johnston III, Louisiana Geological Survey, Baton Rouge, LA; James Luppens, Phillips Coal Company, Dallas, TX; and David Ray Williamson, Central Louisiana Electric Company, Mansfield, LA (Coal Geology Division)

This trip consists of a tour of an East Texas surface lignite mine, followed by field excursions visiting significant Louisiana lignite outcrops, test pits, mine-mouth power plant sites, and proposed mine locations. Trip originates in Dallas, TX and ends in New Orleans. (Limit, 40 participants; 3 days, Fri., Oct. 15, to Sun., Oct. 17; Fee \$159.)

2. Mississippi River and Delta Depositional Environments. James H. Coleman and John T. Wells, Coastal Studies Institute, Louisiana State Univ., Baton Rouge, LA (Quaternary Geology and Geomorphology Division)

This trip is designed to examine and discuss the fluvial and coastal deltaic environments of the Mississippi River delta. Stops include meander point bar, natural levee, backswamp, and freshwater marsh. Trip originates in Baton Rouge and ends in New Orleans. (Limit, 40 participants; 2 days, Sat., Oct. 16, to Sun., Oct. 17; Fee \$130.)

3. Ouachita Orogenic Belt in Arkansas. George W. Viele, Univ. of Missouri, Columbia, MO; Boyd R. Haley, U.S.G.S., Little Rock, AR; and Charlie Stone, Arkansas Geological Commission, Little Rock, AR.

Major structures and stratigraphy in eastern part of Ouachita Mountains will be examined with emphasis on tectonic framework of sedimentation, structural style, and tectonic history. A comparison will be made with Appalachian outcrop stratigraphy and structure and with Appalachian-Ouachita system beneath the Coastal Plain. Scheduled ½-day boat trip will also be taken on Lake Ouachita, AR. Trip starts in Little Rock, AR and ends in New Orleans. (Limit, 40 participants; 3 days, Thurs., Oct. 14, to Sat., Oct. 16; Fee \$308 includes air fare from Little Rock to New Orleans.)

4. Cultural and Morphological Changes in the Upper Barataria Basin ca. 900-1700 A.D. Tom Ryan, U.S. Army Corps of Engineers, New Orleans, LA and Randall Detrow, Nicholls State Univ., Thibodaux, LA. (Archaeological Geology Division)

A visit will be made to a pre-historic archaeological site located on a Lafourche-Mississippi distributary that once flowed into the Upper Barataria Basin.

Field Trips

taria Basin. An exposed profile will be examined that includes 1,000 years of stratified cultural and natural deposits. The site illustrates the dynamic relationship between man and the changing environment in coastal Louisiana. (Limit, 40 participants; 1 day, Sat., Oct. 16; Fee \$25.)

5. Reefs and Associated Sediments of Grand Cayman Island, B.W.I.: A Recent Sedimentation Seminar. Harry H. Roberts. Coastal Studies Institute, Louisiana State Univ., Baton Rouge, LA, and Robert M. Sneider, Exploration Inc., Houston, TX.

The objective of this trip is to introduce participants to carbonate depositional and diagenetic processes as they are taking place in the Recent in order that a better understanding of ancient carbonate rocks may be established. The variety of both Recent and Pleistocene carbonates in Grand Cayman provides an excellent opportunity for studying a spatially coherent group of carbonates derived from a broad spectrum of environments. These sediments display an extensive array of textures, constituent particles, and diagenetic alterations that are the results of combined physical, chemical, and biological processes. A systematic environment-by-environment evaluation of process-product relationships will be followed during this seminar. Emphasis will be placed on developing an understanding of processes that control the production and spatial arrangement of carbonate facies. Discussions will be held at each stop which stress important aspects of the Recent that can be extrapolated to the rock record and used in an exploration context. Trip originates and ends in Grand Cayman. There will be some snorkeling and scuba diving. Participants must be able to swim. Gear can be taken, or rented, in Grand Cayman. (Limit, 20 participants; arrive Grand Cayman Wednesday afternoon, Oct. 13, and leave Sunday afternoon, Oct. 17. Fee \$640, does not include air fare to and from Grand Cayman; flight arrangements can be made through International Travel Service, Houston, TX (800) 647-2354, ext. 1189 or (713) 578-1306. For more information, contact Harry Roberts (504) 388-2395.)

6. Mississippina-Pennsylvanian Shelf-to-Basin Transition, Ozark and Ouachita Regions, Arkansas and Oklahoma, with Emphasis on Mississippian-Pennsylvanian Boundary. Patrick K. Sutherland, Univ. of Oklahoma, Norman, OK and Walter L. Manager, Univ. of Arkansas, Fayetteville, AR.

The Mississippian-Pennsylvanian boundary and associated strata will be examined in thin carbonate-shelf sequence of the Ozark Mountains. This will be followed by an examination of rocks of the same age in the thick turbidite trough facies of the Ouachita Mountains. Emphasis will be on lithologic and biostratigraphic correlations between the two areas and on depositional environments. Trip originates in Fayetteville, AR and ends in New Orleans. (Limit, 20 participants; 3 days, Thur., Oct. 15, to Sun., Oct. 17, Fee \$234.)

7. Transgressive Sedimentary Environments of the Mississippi River Delta. Shea Penland, Woodward-Clyde Consultants, Victoria, B.C.; Ron Boyd, Dalhousie Univ., Halifax, Nova Scotia.

This field trip will examine the Holocene evolution of the abandoned Maringouin, Teche St. Bernard, and Lafourche delta complexes of the Mississippi River. Emphasis will be on the development of these transgressive deltaic environments, including geomorphology, stratigraphy, and facies relationships. Field trip includes overflight of the Mississippi Delta barrier systems and a field excursion to the Late Lefourche erosional headland and the Caminada-Grand Isle flanking barrier system. (Limit, 40 participants; 2 days, Sat., Oct. 16, to Sun., Oct. 17; Fee \$271.)

8. Upper Cretaceous in the Lower Mississippi Embayment of Tennessee and Mississippi: Lithofacies and Biostratigraphy. Ernest Russell, Mississippi State Univ., Starkville, MS; Ernest A. Mancini, Geological Survey of Alabama, Tuscaloosa, AL; Don

Keady, Mississippi State Univ., Starkville, MS; and Charlie Smith, Museum of Natural History, U.S.G.S., Washington, D.C.

Participants of this field trip will examine major lithostratigraphic and biostratigraphic units in the Upper Cretaceous strata of the southeastern margin of the Mississippi Embayment. There will be two traverses; one, in the vicinity of southern west Tennessee where outcrops of the fluvial, lagoonal, barrier and shelf lithofacies will be examined, and the second, in the latitude of Columbus, MS, where marl and chalk shelf lithofacies occur. These facies are equivalent to the facies in Tennessee. This field trip will be of significance to those with research interests in the Upper Cretaceous. Trip originates from the Golden Triangle Regional Airport, near Columbus, MS and ends in New Orleans. (Limit, 20 participants; 2½ days; Fri., Oct 15, through Sun., Oct. 17; Fee \$192.)

9. Problematic Differentiation of Unfossiliferous Clastics: Solutions for the Southern Portion of the Alabama-Mississippi Coastal Plain. George C. Flowers, Tulane Univ., New Orleans, LA, and Wayne C. Isphording, Univ. of South Alabama, Mobile, AL.

The Neogene sediments of the southern portion of the Alabama-Mississippi Coastal Plain will be considered the first day. These sediments are classified according to their mineralogy, sedimentary structures and depositional environment. The similarity of the various units within Neogene stratigraphy such as appearance, mineralogy, and erosional features, makes differentiation difficult. The problems of mapping unfossiliferous clastics in central Gulf Coastal Plain are discussed in detail along with developed techniques in the identification of "floating sections."

The "Lisbon Problem" which involves the assignment of certain massive red sands in Washington County, AL, and in the Lisbon Formation is considered on the second day. A statistical approach and corroborating field evidence are presented as a solution of the "Lisbon Problem." (Limit, 20 participants; 2 days, Sat., Oct. 16, to Sun., Oct. 17, Fee \$106.)

10. Geology and Hydrogeology of Carbonate Rocks of the Northeastern Yucatan Peninsula, Mexico. Al Weidie and Bill Ward, Univ. of New Orleans, New Orleans, LA; Bill Back and Bruce Hanshaw, U.S.G.S., Reston, VA. (Hydrogeology Division)

This field trip will emphasize both the geology and hydrogeology of the carbonate rocks of the Yucatan Peninsula. Participants will examine the petrology, depositional history, and diagenesis of Pleistocene and Holocene limestones, including coastal grainstone, eolianite, reef rock, and fresh water micrite. In addition, ground water discharge, geochemical reactions in the mixing zone, and the influence of the dissolution of limestones on the geomorphic evolution of the Yucatan coast will be covered. Participants will spend two nights near the archaeological sites of Chichen Itza and Coba. (Limit, 70 participants; 5 days, Wed., Oct. 13, through Sun., Oct. 17, Fee \$627, includes air fare.)

POSTMEETING

11. Engineering Geology of the Jefferson Island Event – November 20, 1980. Whitney J. Autin, Lori G. Eversull, and Peggy R. Autin, Louisiana Geological Survey, Baton Rouge, LA (Engineering Geology Division)

The trip to the Jefferson Island salt dome will review surficial processes of mass movement associated with the catastrophic mine inundation. Emphasis will be placed on the analysis and interpretation of engineering properties of soil materials and their behavior during the failure process. Other points of geologic and cultural interest will be discussed en route. (Limit, 40 participants; 1 day, Fri., Oct. 22; Fee \$54.)

Field Trips

(POSTMEETING CON'T)

12. Sedimentary Environments of the Louisiana-Texas Coast. Dag Nummedal, Louisiana State Univ., Baton Rouge, LA, and Robert A. Morton, Bureau of Economic Geology, Univ. of Texas, Austin, TX.

This trip will examine the Louisiana-Chenier Plain, a salt dome, Texas barriers, deltas, and lagoonal margins. The Holocene stratigraphy of this coastal plain will be examined in light of present-day physical coastal processes, including the effects of Hurricane Allen, which struck the lower Texas coast in 1980. Trip starts in New Orleans and ends in Corpus Christi, TX. (Limit, 40 participants; 3 days, Fri., Oct. 22, to Sun., Oct. 24; Fee \$281.)

13. Appalachian Thrust Belt in Alabama – Tectonics and Sedimentation. William A. Thomas, Univ. of Alabama, Tuscaloosa, AL; James F. Tull, Florida State Univ., Tallahassee, FL; Greg H. Mack, New Mexico State Univ., Las Cruces, NM; and Thornton L. Neathery, Geological Survey of Alabama, Tuscaloosa, AL.

In the Alabama Appalachians, large-scale thrusting during late Paleozoic displaced rocks that reflect earlier tectonic events. The trip is designed to examine the large thrust faults as well as to study evidence of the complex prethrusting history. The latter will include the tectonic framework of sedimentation and volcanism of the protoliths of low-grade metamorphic rocks, time of metamorphism, unconformities, and the depositional framework and provenance of clastic-wedge rocks. Trip begins in New Orleans and ends in Birmingham, AL. (Limit, 40 participants; 2½ days, Thur., Oct. 21, to Sat., Oct. 23; Fee \$197.)

14. Geopressured-Geothermal Energy Resource Appraisal: Hydrogeology and Well Testing Determine Producibility. Raymond H. Wallace, U.S.G.S., MSTL, MS; J. Keith Westhusing, U.S. Department of Energy, Bartlesville, OK; and Don G. Bebout, Louisiana Geological Survey, Baton Rouge, LA. (Hydrogeology Division)

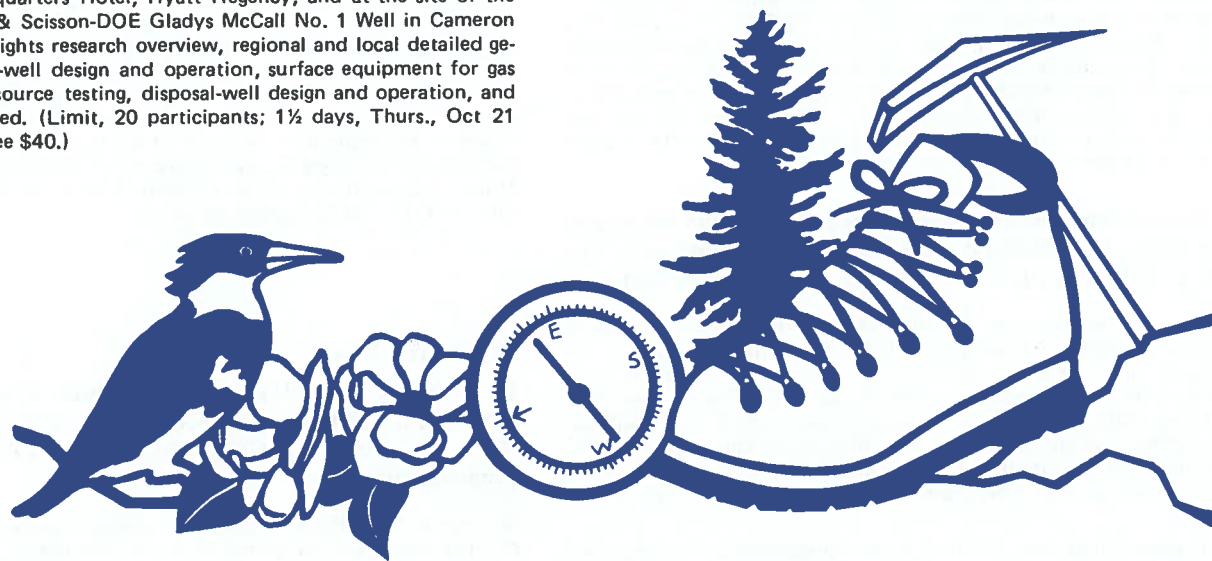
Briefings at Headquarters Hotel, Hyatt Regency, and at the site of the Technadriil-Fenix & Scisson-DOE Gladys McCall No. 1 Well in Cameron Parish which highlights research overview, regional and local detailed geology, production-well design and operation, surface equipment for gas separation and resource testing, disposal-well design and operation, and test results achieved. (Limit, 20 participants; 1½ days, Thurs., Oct 21 to Fri., Oct. 22; Fee \$40.)

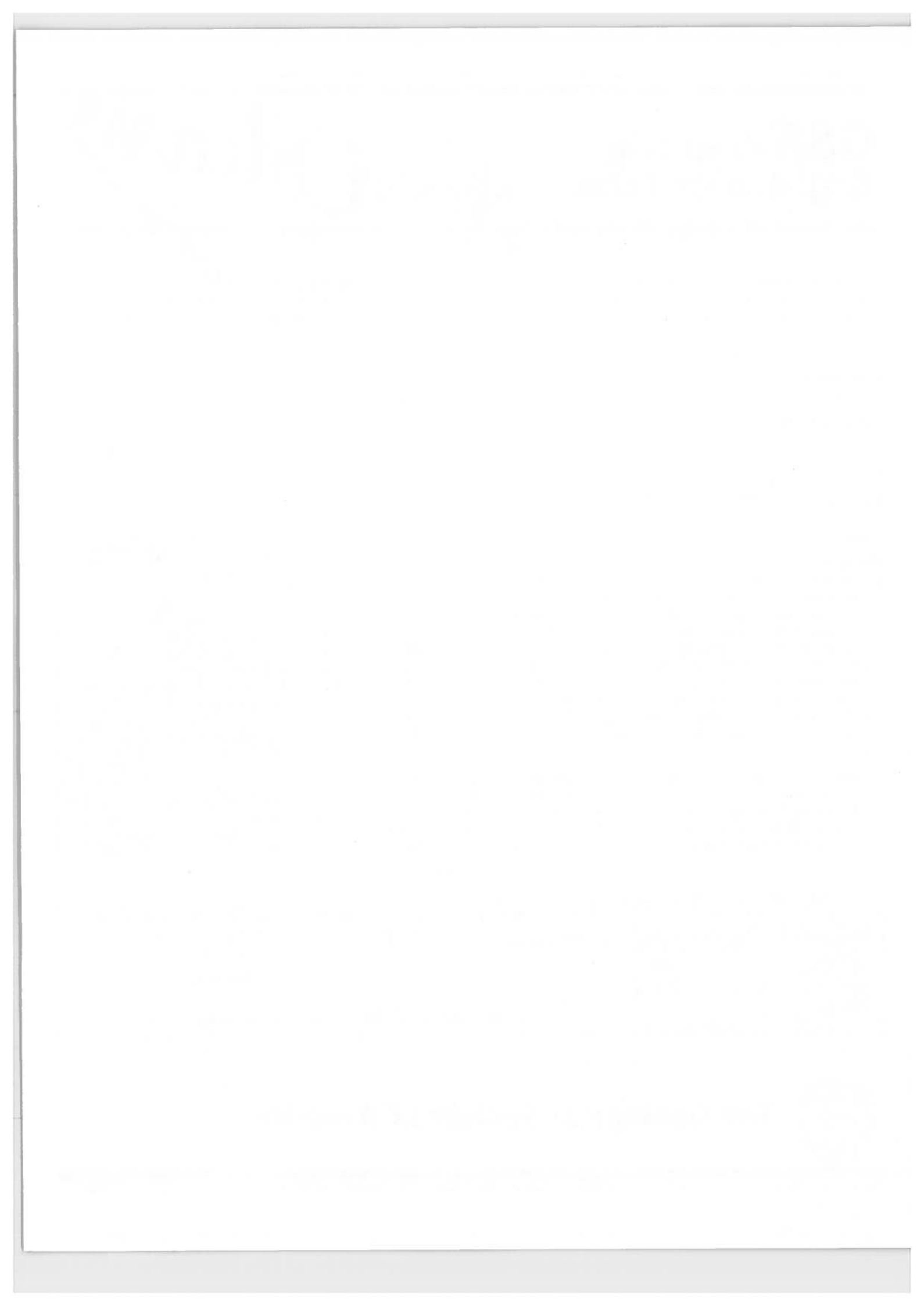
15. Fossil and Modern Reefs of Jamaica. W. David Liddell, Utah State Univ., Logan, UT; Sharon L. Ohlhorst, Utah State Univ., Logan, UT; Tony Coates, George Washington Univ., Washington, D.C.

This field trip will examine the much-studied Recent and Pleistocene reefs of the north coast of Jamaica. The Recent environment will provide the opportunity to witness processes such as bioerosion and carbonate sediment production, as well as view the geomorphology and biotic zonation of these classic fringing reefs. A short offshore-to-onshore transect provides the participants with a progression from living reef to reef-derived carbonate sediment to subaerially exposed but slightly altered Falmouth Formation (120,000 y.b.p.) limestones to dolomitic Hopegate Formation (300,000+ y.b.p.) rocks. Additional excursions will be made to nearby Tertiary carbonates and Cretaceous rudist limestones. Trip originates and ends at Montego Bay, Jamaica. (Limit, 20 participants; 5 days, Fri., Oct. 22, to Tues. Oct. 26; Fee \$407, does not include air fare. Participants should arrange to arrive at Montego Bay Friday morning. For further information on available flights, contact W. David Liddell (801) 750-1261.)

SEG FIELD TRIP.

Field Trip to the Dominican Republic to visit Pueblo Viejo Au-Ag Mine and Falconbridge Laterite Ni Mine to study ore deposits. 3-day pre-GSA meeting trip, Oct. 13-15. Cost: \$150 includes hotels, meals, and on-site transportation (you are responsible for air transportation to and from field trip). For further information and to register, contact: Stephen E. Kesler, Department of Geological Sciences, University of Michigan, Ann Arbor, MI 48109, (313) 764-1435.





Housing Information

The New Orleans Tourist Commission will coordinate ALL hotel reservations. Your choice of hotel accommodations and rates will be honored, if possible, although rooms will be confirmed on a first-come, first-served basis. Telephone requests will not be honored. All reservations must be submitted on the GSA Housing Form. Cancellations should be made in writing directly to the Housing Bureau or to the hotel. Be prepared: **ALL NEW ORLEANS HOTELS WILL REQUIRE A FIRST NIGHT'S DEPOSIT.** After the Bureau has assigned your hotel, the hotel will confirm and request a first night's deposit. In effect, hotels are requiring you to guarantee your first night's stay. The hotels will not hold reservations without a deposit. This is a major change from previous years.

Credit cards or checks will be accepted. The type of credit card will depend on the hotel. VISA/MasterCard may not be accepted for the deposit, even though it will be accepted in payment for the final bill. Refunds will be made to those cancelling 48 hours prior to arrival. **IF YOU CANCEL, BE SURE TO ASK FOR YOUR CANCELLATION NUMBER.** If problems occur, we would like to hear from you as soon as possible.

Hotels

1. **HYATT REGENCY** (Headquarters). Luxury. Service-oriented. Convenient to all meeting activities. Excellent facilities. Exceptional restaurants and lounges. Handicap facilities. Large outdoor heated pool. Babysitting service. Paid parking. In-house movies. Second floor shopping mall. Concierge desk. Tour desks. Connected to Superdome by walkway. On CBD route. CC: AE, V, MC, D, CB.

2. **YMCA** (Male & Female). Economy. Well-maintained. Good student housing. Near-by street parking. Indoor pool. Fitness facilities available. Located in central business district. 9 blocks from French Quarter. 8 blocks from Superdome. 5 blocks from CBD route. CC: V, MC.

3. **LaSALLE**. Economy. No restaurants. Older. Twin beds. Clean. On CBD route. CC: AE, V, MC, D.

4. **SUPERDOME MOTOR INN**. Moderate. Free parking. Restaurant: bkfst, lunch only. Cocktail lounge. Outdoor pool. Courtyard. Located a long 8 blocks west of Superdome. Not on CBD route. Public bus available during day. Best for those with cars. CC: AE, V, MC.

5. **FOUNTAIN BAY CLUB**. Moderate. Free parking. Restaurant. Cocktail lounge. Handicap facilities. Courtyard with pool. Many tennis courts. Request courtyard rooms. Located 20+ blocks from Superdome. Not on CBD route. Public bus available days. Best for those with cars. CC: AE, V, MC.

6. **TRAVELODGE @ DOWNTOWN**. Deluxe. Renovated. Clean. Comfortable. Free parking. Restaurant. Cocktail lounge. Outdoor pool. Handicap facilities. 5 blocks from Superdome. 2 blocks from CBD route. Recommended for those with cars. CC: AE, V, MC.

7. **DOWNTOWN HOWARD JOHNSON'S**. Deluxe. Excellent original art on display. Free parking. Restaurant. Well-maintained. Good facilities. Outdoor heated pool. Handicap facilities. Free in-house movies. Request courtyard. 2 blocks from CBD. Easy walk to Superdome. CC: AE, V, MC, D, CB.

8. **QUALITY INN-BOURBON STREET**. Deluxe. Heart of the Quarter. Paid parking. Restaurant: bkfst, dinner only. Tour desk. Bourbon and Courtyard balcony rooms. For 24 hour music, face Bourbon Street. For

Check-out time is 1:00 p.m. If you plan later departure, notify the hotel as soon as possible. Hotels are not required to hold a room in your name after the check-out time. An alternative is to check out and have the bellman hold your luggage until actual departure time.

DEADLINE FOR RECEIPT OF HOTEL RESERVATIONS IS SEPTEMBER 17. Reservations after this date will be on a space-available basis only.

Student Housing. The YMCA and the LaSalle offer basic accommodations. Daily rates will run from \$15-33. Triple and quad reservations can be arranged at all hotels. See hotel prices for details. Specify the type of arrangement you need, and the Housing Bureau will make the hotel assignment. However, the Bureau will not assign roommates. If you want to share a triple or quad, you are responsible for locating roommates.



quiet, request courtyard rooms. 13 blocks from Superdome. 4 blocks from CBD. CC: AE, D.

9. **HOLIDAY INN-FRENCH QUARTER**. Deluxe. Renovated. Free indoor parking. Restaurant and lounge. Small indoor heated pool. Handicap facilities. Laundry machine. Tour desk. 12 blocks to Superdome. On CBD route. CC: AE, V, MC, D, CB.

10. **THE WARWICK**. Deluxe. Tasteful and comfortable. Quiet. Recently renovated. Paid parking. Complimentary cocktail. Restaurant. Cocktail lounge. Morning newspaper daily. Easy walking distance to Hyatt & Superdome. On CBD route. CC: AE, V, MC, D, CB.

11. **CHATEAU LeMOYNE-HOLIDAY INN**. Luxury. French Quarter elegance. Sunday champagne brunch. Free parking. Restaurant. Lounge with live entertainment. Gracious outdoor courtyard with heated pool. Request balcony or courtyard rooms. Slave quarter suites. 12 blocks from Superdome. 2 blocks from CBD route. CC: AE, V, MC, D, CB.

12. **LePAVILLION**. Luxury. Paid parking. Excellent restaurants and cocktail lounge. Elegant, ample accommodations. Easy walking to Superdome. On CBD route. CC: AE, MC, V.

13. **DAUPHINE ORLEANS**. Deluxe. Plenty of New Orleans history. French Quarter elegance. Pleasant. Complimentary continental breakfast. Free parking. Morning newspaper daily. Cocktail lounge. Outdoor courtyard with pool. Service-oriented. In-house movies. Courtyard. Balcony. 12 blocks from Superdome. 3 blocks from CBD route. CC: AE, V, MC.

CBD shuttle system runs from 6:30 a.m. to 7:30 p.m., Monday through Saturday, via Canal and Poydras streets. No Sunday Service. Cost: 30 cents.

KEY

CC = Credit Card (accepted for room deposits):

AE = American Express

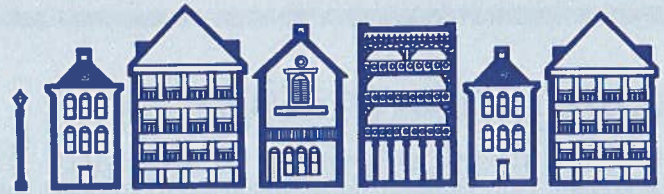
V = VISA

MC = MasterCard

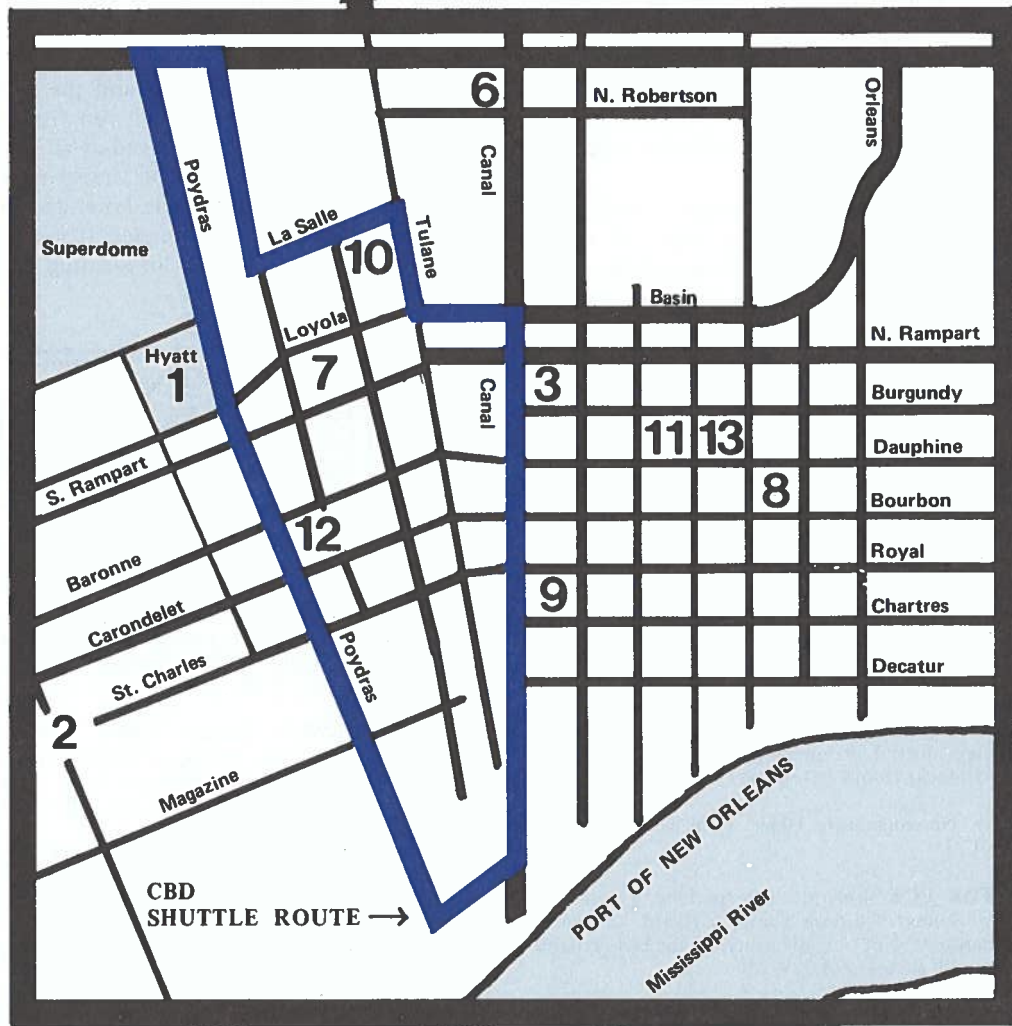
D = Diners

CB = Carte Blanche

Hotel Guide



FOLLOW TULANE STREET ↑ TO HOTELS 4 & 5



Hotel Rates

All rooms subject to 10% room tax.

	Single	Double	Triples/ Quads	Suites	Number in Room Block
1. Hyatt Regency (Headquarters)	\$63-69-75	\$83-89-95	+\$10	\$210-310-385	1,000
2. YMCA (Student Housing)	\$15 & 22	\$22 & 30	+\$ 3	-	250
3. LaSalle	\$28	\$31-33	+\$ 3	-	25
4. Superdome Motor Inn	\$38	\$44	+\$ 6	-	50
5. Fountain Bay Club	\$40-53	\$44-59	+\$ 9	\$120-195	300
6. Travelodge at Downtown	\$49	\$55-61	+\$ 5	\$ 75	125
7. Downtown Howard Johnson's	\$57	\$68	+\$12	-	150
8. Quality Inn-Bourbon Street	\$61	\$72	+\$ 2	\$ 95-105	75
9. Holiday Inn-French Quarter	\$65	\$75	+\$10	\$ 85	100
10. The Warwick	\$65	\$65	+\$ 8	\$ 90-145	75
11. Chateau LeMoyne-Holiday Inn	\$68-77	\$83-92	+\$12	\$120-265	75
12. LePavillon	\$68	\$78	+\$10	\$250-275	150
13. Dauphine Orleans	\$74	\$84	+\$10	\$100-125	40

GSA Official Housing Form

New Orleans

PLEASE COMPLETE BY SEPTEMBER 17 AND RETURN TO:
GSA HOUSING BUREAU
334 ROYAL STREET
NEW ORLEANS, LA 70130

PLEASE PRINT OR TYPE:

HOTEL/MOTEL PREFERENCE

1. _____ 2. _____ 3. _____

TYPE OF ACCOMMODATIONS

(send one reservation form per room)

- Single (1 bed, 1 person)
- Double (1 bed, 2 persons)
- Twin (2 beds, 2 persons)
- 1 Bedroom Suite

- 2 Bedroom Suite
- Triple (number of beds _____, 3 persons)
- Quad (number of beds _____, 4 persons)

RATE REQUESTED* _____

*Subject to 10% room tax.

ARRIVAL DAY _____ DATE _____
DEPARTURE DAY _____ DATE _____

TIME _____ a.m./p.m.
TIME _____ a.m./p.m.

NAMES OF OCCUPANTS

1. _____ 3. _____
2. _____ 4. _____

MAIL CONFIRMATION TO:

Name _____ Phone _____ / _____

University or Company _____

Address _____
Street City State Zip

1. Make reservations by September 17. Reservations after this date are on a space-available basis only.
2. First night's deposits will be required. Credit cards and checks will be accepted. Deposit due after hotel confirmation is received.
3. Notify hotel directly for changes in arrival/departure or type of accommodations.
4. Cancellation 48 hours in advance is required for refund. Request cancellation number at that time.
5. Room assignments are made in the order received. If hotels of your choice are filled, the Housing Bureau will make the best arrangements elsewhere.



The Geological Society of America

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Transportation & GSA/Viking Airline Reservation System



GSA/VIKING AIRLINE RESERVATION SYSTEM

The Geological Society of America has designated Viking Travel, Ltd. of Boulder, Colorado, as the sole airline reservation agent for the 1982 Annual Meeting in New Orleans.

Viking will make arrangements for attendees, regardless of point-of-departure, and guarantees that you will receive the least expensive airfare available from your departure city.

You are encouraged to make your airline reservations through the GSA/Viking toll-free "hotline" number: **(800) 525-0368**.

PROCEDURES

1. Call Viking toll-free at (800) 525-0368, or from within Colorado at (303) 449-6983. Call Monday through Friday, 8:30 to 5:30 p.m. or Saturday, 10:00 a.m. to 2:00 p.m., mountain time.
2. Identify yourself as attending the GSA/New Orleans Annual Meeting and request a reservation from your departure city.
3. The Viking agent will immediately confirm your reservations, and quote you the applicable group-fare or deep-discount fare.
4. Payment options are:
 - a. Check payable to Viking Travel, Ltd.
 - b. Major Credit Card.
 - c. Invoice to your firm.
5. Delivery will be via first-class mail. You will receive your tickets at least two weeks prior to departure. Payment or credit card authorization is required before mailing.
6. Your reservation will be monitored to take advantage of any fare reductions that may occur between the time of booking the reservation and the ticketing date. In the event of a fare

increase, your reservation will be ticketed at the previously confirmed lower fare.

That's all there is to it!

The GSA/VIKING AIRLINE RESERVATION SYSTEM was designed to assure you of confirmed, discounted reservations to the meeting in New Orleans. Because Viking has arranged special GSA fares on several major airlines, we encourage you to make your reservation through VIKING. Other agencies or airlines will not be able to offer the same attractive fares.

Call today to assure the best flight schedule for you!

TRANSPORTATION

Getting from the Airport to Downtown . . . Taxi from the airport to downtown New Orleans is \$18.25 plus tip. Taxis offer a \$6-per-person rate for 3 or more passengers. Also, shuttle service is available by public van at a one-way rate of \$6. Returning to the airport can be arranged at your hotel at \$6 for private shuttle van.

Getting Around during the Day . . . Transportation downtown is very convenient via New Orleans Central Business District (CBD) shuttle bus service. It is in operation Monday through Saturday 6:30 a.m. to 7:30 p.m. in 10-minute intervals. Rides are 30 cents and provide transportation to and from the Superdome, Hyatt, and French Quarter along Poydras and Canal streets. **Note: The CBD shuttle does not operate on Sunday or at night.** In the evening the best way to travel is by taxi. Parking in the French Quarter is next to impossible. Walking at night is not recommended. Transportation for the Riverboat Cruise will be provided by GSA buses.

All About Town . . .

During your visit to New Orleans, don't miss out on famous places for music, entertainment, and food:

Music:

Preservation Hall, Pete Fountain's, Blue Angel, Al Hirt's, Woody Herman's (Hyatt)

Entertainment:

Saenger Theatre, Beverly Dinner Playhouse, Long Vue Gardens

Restaurants:

Jonah's (Hyatt), Commander's Palace, Louis XVI, Antoine's, Charter House, Galatoires, The Caribbean Room (Pontchartrain Hotel), Bon Ton (creole), K-Paul's (cajun), Cafe Maspero's (lunch only), Brennan's (breakfast and brunch)

Sights:

French Quarter, Garden District, Audubon Zoo, Lakefront



Pontchartrain Beach, Gallier House, Boat Tours, Jackson Square, Historic New Orleans Collection, Pharmacy Museum, St. Charles streetcar, New Orleans Museum of Art, Moon Walk

If you are a guest of the Hyatt, tour hostesses are available for information and reservations. Also, the concierge desk will provide further restaurant recommendations, menu selections, and reservations. Call (504) 561-1234.

If you are not a guest of the Hyatt, you may contact the Convention Bureau Tour Desk for assistance. Call (504) 566-5011.

Social Events



GOLF TOURNAMENT

Sunday, October 17, 9:30 a.m. (first tee-off)
New Orleans City Park—West Course (located 2-3 miles from downtown and is accessible by taxi or auto)
\$15, includes green fee, ½ golf cart, and prizes

The tournament is for all levels of players. If you desire to play in a certain foursome, please accumulate and send all 4 checks in one envelope with a note requesting same. A letter telling you of your designated starting time will be mailed out on Friday, October 8, 1982. Participation is arranged for 22 foursomes.

Preregistration is required.

Make checks payable to: GSA Tournaments

Send checks to:

Lyle H. Harvey
c/o Ingram Exploration Company
4100 One Shell Square
New Orleans, LA 70139

Cancellations will be honored at any time upon request.

For further information contact Lyle H. Harvey at the above address or phone (504) 588-2400.

TENNIS TOURNAMENT

Sunday, October 17, 11:30 a.m. to 5:30 p.m.
Rivercenter Tennis Club, New Orleans Hilton—Downtown Poydras at the River (courts are accessible by taxi or auto).
\$20, includes court fees, balls, towels, and prizes.

A round-robin, indoor tennis tournament for all levels of players. Participation limited to first 80 entrants.

Preregistration is required.

Make check payable to: GSA Tournaments

Send check to:

Lyle H. Harvey
c/o Ingram Exploration Company
4100 One Shell Square
New Orleans, LA 70139

Cancellations will be honored at any time upon request.

For further information:

Willis E. Conaster
3900 N. Causeway Blvd., Suite 1410
Metairie, LA 70002, (504) 837-4862.

WELCOMING PARTY

Sunday, October 17, Hyatt Regency Ballroom, 6:00 p.m. to 9:00 p.m. This is the traditional opening night gathering. New for '82: the exhibits will be open from 6:00 p.m. to 9:00 p.m. in the French Market Exhibit Hall which is adjacent to the ballroom. Also, registration at the Hyatt will remain open until 9:00 p.m. for both preregistrants and on-site registrants. Several complimentary drinks will be provided.

ALUMNI RECEPTIONS

Monday, October 18, Hyatt Regency, 6:00 p.m. to 9:00 p.m. Over 50 universities and colleges will be participating in this popular event.

RIVERBOAT CRUISE

Tuesday, October 19. We've seen you at Bluegrass in Atlanta, Oktoberfest in Cincinnati, and this year we'll dance down the

Mississippi—on the Steamer *President*. Cajun and New Orleans jazz bands will entertain on the multi-decked steamer from 7:30 p.m. to 10:30 p.m. After a long day of sessions, you may dance inside or sit outside and admire the sunset and gaze at the stars. Dry snacks and cold, wet, free beer will be ample. Some of 22 bars will specialize in "beer only" while others will be cash bars for mixed drinks.

A shuttle from the Hyatt to the Canal Street docks will run from 7:15 p.m. to 8:15 p.m. in 15-minute intervals. Get there early and brush up on your dance steps as you are welcomed by the "Last Straws" jazz band. Boarding begins at 7:30 p.m. The *President* leaves the docks at 8:30 p.m. sharp. The shuttle will return you to your hotels starting at 10:30 p.m. to 11:00 p.m.

\$13 covers the fun and 2,500 is the limit. This is always a sell-out event. Preregistration is recommended.

GEOSCIENCE EXHIBIT

The rhythmic Bourré cajun band opens the exhibits on Sunday night at 6:00 p.m. as a kick-off for the Welcoming Party. Some of the bars for the Welcoming Party will be in the exhibit hall. After Sunday, show days will be Monday, Tuesday, and Wednesday.

Enhancing the scientific and technical exhibits will be special attractions: prize drawings, cajun cooking school, New Orleans posters and t-shirts, a 7-foot model of the Cognac drilling platform, and the best coffee prices in town.

Guest Programs & Employment Interviews

GUEST PROGRAM

Registration as a guest is necessary for participation in the Guest Program. Guest registration includes admission to the Hospitality Room, the tours, the nontechnical talks, and the exhibits. Professional registration is required for admission to the technical sessions.

The Hospitality Room is in LeClub at the Hyatt Regency. Sun-

day hours are 1:00 p.m.-4:00 p.m.; Monday through Thursday, 9:00 a.m.-4:00 p.m. Light refreshments and a place to relax will be provided to those registered as guests. (Please wear your badge). Hostesses will be on hand to help you in any way they can. The entire local committee wants you to enjoy your visit and warmly welcomes you to New Orleans.

Monday, October 18

9:00 a.m.-11:00 a.m.:

What You Always Wanted to Know about Geology and Were Afraid to Ask—Part I. Talks on geology for the nongeologist.

- How to Explore for Oil, by Dr. Raymond Stephens
- What Does Paleontology Tell Us about Our Earth? by Dr. Emily Vokes
- Where, When, and Why Did Glaciers Form and Move Through North America? by Dr. Carol Gilchrist.

1:30 p.m.:

French Quarter Patio Tour. A View of Beautiful Historic French Quarter Private Patios. Repeated Tuesday. Cost: \$10. Antique Browsing Tour. Repeated Thursday. Cost: \$5.

Tuesday, October 19

9:00 a.m.-11:00 a.m.:

What You Always Wanted to Know about Geology and Were Afraid to Ask—Part II.

EMPLOYMENT INTERVIEWS

Organizations seeking qualified earth scientists to fill staff needs and persons seeking employment in the earth-sciences fields are invited to participate in the GSA Employment Interview Service. The Employment Interview Service will be conducted in the NE Quad of the Superdome.

All interested organizations are urged to submit notices of their vacancies (suitable for posting) and requests for computer listings of applicants. The minimum fee for a printout of two specialty listings is \$100. Interview booths may be rented in half-day increments during the meeting (Monday through Wednesday) at a nominal fee. GSA staff will handle all interview scheduling with employment service applicants. Request forms may be obtained from the February and June issues of *GSA News & Information* or by contacting the Membership Department.

Job-seeking participants who have attended past annual meetings have found the Employment Interview Service very helpful in their search for positions. The applicant fee is \$15 for GSA

- What Is the Recent Geological History of the New Orleans Area? by Dr. Jesse O. Snowden
- How Precious and Semi-Precious Stones Are Formed, and Where to Find Them, by Dr. William B. Simmons
- How Have the Continents Drifted about Our Earth? by Dr. Doris Curtis

1:30 p.m.:

French Quarter Patio Tour (repeat). Cost: \$10

Wednesday, October 20

11:30 a.m.:

Creole luncheon on the magnificent grounds of a historical old New Orleans plantation home. Entertainment by the New Orleans Ballet Company. Cost: \$20. Limit: 240.

Thursday, October 21

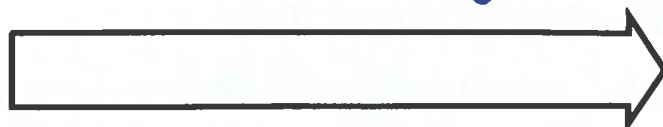
10:30 a.m.:

Antique Browsing Tour (repeat). Cost: \$5.

Members and Student Associates and \$30 for nonmembers for a one-year registration, including the interview service at the annual meeting. Employment Service forms may be obtained from the February and June issues of *GSA News & Information* or by contacting Clara Hodgson, Membership Coordinator, Geological Society of America, P.O. Box 9140, Boulder, CO 80301, (303) 447-2020.

Note to Applicants: Completed application forms, a one-page resume, and your \$15 or \$30 payment must be received at GSA headquarters no later than August 16, 1982, in order for your record to be included on the computer printouts of the applicant listing during September and October. **Get the maximum exposure by getting your forms in early, and don't forget to indicate whether you are attending the meeting for interviewing purposes!**

Important Information



1. Registration is required for all attendees, including all field trip participants and guests.
2. Student IDs are required to obtain student rates at both the on-site and the preregistration counters.
3. Full payment **must** accompany registration.

4. Register one professional or student per form.
5. Your check will be your receipt. Copy this form for your records.
6. Preregistration deadline: **Must be received no later than September 17, 1982.**

REGISTRATION FEES:

	Advance	On-Site	One-Day (Available on-site only)
Professional	\$65	\$75	\$35
Student	\$32	\$38	\$17
Guest	\$20	\$30	N/A

REFUNDS

GSA will refund advance registration fees for all cancellations received in writing by **October 1, 1982. NO REFUNDS WILL BE MADE ON CANCELLATION NOTICES RECEIVED AFTER THIS DATE.** Refunds will be mailed from GSA after the meeting. *All refunds will be subject to a \$10 processing fee.*

REGISTRATION SCHEDULE

Hyatt Regency	
Friday, October 15	7:00 a.m. to 11:00 a.m.*
Saturday, October 16	7:00 a.m. to 4:00 p.m.*
Sunday, October 17	1:00 p.m. to 9:00 p.m.
Monday, October 18	8:00 a.m. to 5:00 p.m.
Tuesday, October 19	8:00 a.m. to 5:00 p.m.
Wednesday, October 20	8:00 a.m. to 5:00 p.m.
Thursday, October 21	8:00 a.m. to 12:00 noon

*At Field Trip Desk ONLY for those previously registered

**PREREGISTRATION DEADLINE:
SEPTEMBER 17, 1982**

Abstracts with Programs

Purchase of *Abstracts with Programs* is available three ways:

1. **Advance Mailing.** For receipt by mail prior to the meeting, purchase from GSA Publication Sales. The order form is below. Price: \$6.00
2. **Reserved On-Site.** For a reserved copy to be guaranteed on-site, purchase on the preregistration form. A ticket

will be included in your preregistration packet. The reserved price is the same as the on-site price but offers the assurance of a guaranteed volume. Price: \$9.00

3. **Open On-Site.** Purchase on-site as available. Price: \$9.00

In order to receive *Abstracts with Programs* prior to the meeting, it is necessary for the order to be received at GSA by **SEPTEMBER 1**. You may expect to receive your copy close to October 8.

Advance Mailing Price: \$6.00

SEND FULL REMITTANCES. MAKE CHECK OR MONEY ORDER PAYABLE TO GSA.

MAIL TO: PUBLICATION SALES, GEOLOGICAL SOCIETY OF AMERICA, P.O. BOX 9140, BOULDER, CO 80301

ABSTRACTS WITH PROGRAMS – 1982

Enclosed is my check/money order in the amount of \$ _____ for _____ advance copies of *Abstracts with Programs* for the 1982 Annual Meeting.

Name _____

Address _____

State/Country _____ Zip _____

Denver metro residents add 3½% sales tax; Boulder residents add 5½% sales tax; other Colorado residents add 3% sales tax.

GSA Preregistration Form

New Orleans

TYPE OR PRINT • COPY FOR YOUR RECORDS

Name _____		Home Phone _____ / _____								
(first)	(last)	(nickname for badge)								
Mailing Address _____		Business Phone _____ / _____								
City _____	State _____	ZIP _____	Country _____							
Institution/Employer _____										
Please circle all affiliations	GSA 1	GIS 2	GS 3	MSA 4	NAGT 5	PS 6	SEG 7	AAPG 8	AGU 9	SEPM 10

PREREGISTRATION FEES:

	Fee Per Person	No.	Amount
Professional	(1) \$65.00	1	\$ _____
Student (ID required for badge pick-up)	(2) \$32.00	1	\$ _____
Guest (fee does not include admission to technical sessions)			
For Guest Name _____			
Badge Only City _____ State _____	(3) \$20.00		\$ _____

GUEST ACTIVITIES (Guest registration is required)

French Quarter Patio Tour	Oct. 18	(4)	\$10.00	_____	_____
Antique Browsing Tour	Oct. 18	(5)	\$ 5.00	_____	_____
French Quarter Patio Tour (repeat)	Oct. 19	(6)	\$10.00	_____	_____
Creole Luncheon	Oct. 20	(7)	\$20.00	_____	_____
Antique Browsing Tour (repeat)	Oct. 21	(8)	\$ 5.00	_____	_____

SHORT COURSES

GSA Deltas Short Course	Oct. 17	(9)	\$40.00	_____	_____
GSA Remote Sensing Short Course	Oct. 17	(10)	\$60.00	_____	_____

SPECIAL EVENTS (Registration is required)

History of Geology Luncheon	Oct. 18	(11)	\$13.00	_____	_____
Association of Women Geoscientists Luncheon	Oct. 18	(12)	\$13.00	_____	_____
Geoscience Information Society Luncheon	Oct. 18	(13)	\$13.00	_____	_____
Geophysics Division Luncheon	Oct. 18	(14)	\$13.00	_____	_____
Engineering Geology Division Luncheon	Oct. 19	(15)	\$13.00	_____	_____
Planetary Geology Division Luncheon	Oct. 19	(16)	\$13.00	_____	_____
Paleontological Society Luncheon	Oct. 19	(17)	\$13.00	_____	_____
National Association of Geology Teachers Luncheon	Oct. 19	(18)	\$13.00	_____	_____
Mineralogical Society of America Luncheon	Oct. 19	(19)	\$13.00	_____	_____
Hydrogeology Division Luncheon	Oct. 19	(20)	\$13.00	_____	_____
Riverboat Cruise	Oct. 19	(21)	\$13.00	_____	_____
Quaternary Geology & Geomorphology Division Luncheon	Oct. 20	(22)	\$13.00	_____	_____
Society of Economic Geologists Luncheon	Oct. 20	(23)	\$13.00	_____	_____
Coal Geology Division Luncheon	Oct. 20	(24)	\$13.00	_____	_____
GSA Annual Dinner	Oct. 20	(25)	\$18.00	_____	_____

ABSTRACTS VOLUME (Reserved on-site)	(26)	\$ 9.00	_____	_____
			TOTAL	_____

FOR OFFICE USE ONLY

Balance Due \$ _____ A/R
 Deposit Date _____
 Refund \$ _____ A/P
 Check No. _____

U.S. FUNDS ONLY • CHARGE OR REMIT CHECK TO: 1982 GSA ANNUAL MEETING

MASTER CARD

VISA Exp. Date ____/____/____
 mo. / yr

Signature _____
 MAIL TO: GSA, 1982 ANNUAL MEETING, P.O. BOX 9140, BOULDER, Co 80301

**95th Annual Meeting
October 18-21, 1982**

New Orleans



**THE
GEOLOGICAL SOCIETY
OF AMERICA**

P.O. Box 9140 • 3300 Penrose Place
Boulder, Colorado 80301

SECOND CLASS
Postage Paid
at Boulder, Colorado
and at additional mailing office
