



Serving Professionals in Groundwater,
Environmental, and Engineering Geology

Section Meeting

**Special Meeting Introducing the 2007/2009 Officers,
Celebrating the 40th Anniversary of the KC/Omaha Section,
and Recognizing the Contributions of the Missouri Geological
Survey**

Date: September 11, 2007

Time: 4:30 Social Hour - The unusual amount of time allowed for the social hour is to allow any who are interested plenty of time to see this unique venue and its many pieces of art. Come at your leisure, have a beer or soft drink, visit, and enjoy the art.

6:00 Dinner

7:00 Meeting and Presentation



Location:

This special meeting will be held at the unique and very interesting Diastole at the University of Missouri at Kansas City Dental and Medical Schools.

Diastole, at 2501 Holmes, is a prominent fixture in the Hospital Hill area. It was built as his residence and later donated to UMKC by Dr. E. Grey Dimond, emeritus Provost for Health Sciences and a founder of the UMKC Medical School. Its Omar Khayyam Room houses part of one of UMKC's special collections, a prime assortment of various editions of the Rubaiyat, amassed by Dr. Dimond over his lifetime. Enter from the parking lot.

Cost: \$12.00 for members and guests, \$5.00 for students

All attendees will be given copies of "Kansas City/Omaha Section's First 40 Years (1967-2007)", a history of the KC/Omaha Section. Subsequent to the meeting the history will be made available on the Section's website. In addition, a drawing will be held for a door prize donated by our speaker.

Topic: Our State Geological Surveys are invaluable assets to our profession and to the citizens of our states. In the past two years, the Missouri Geological Survey has undergone major changes and reorganization due to budget cuts and changes in the focus of state government. Most of our membership has relied on the Missouri Survey as an important source of geologic information and technical support through out the 40 year history of the Section. The State Geologist, Mimi Garstang has taken important steps to accommodate the mandate for change while maintaining an organization that is responsive to the needs of the citizens of Missouri. We plan to recognize the Survey's past service to us and to hear Mimi's vision for the Missouri Geological Survey's future.

Speaker: Mimi Garstang, Missouri State Geologist

Eligible for 1.0 Professional Development Hour (PDH) for attending.

For reservations, please call John Moylan at 913-262-1557 or email at john_moylan@sbcglobal.net.

Deadline is September 9, 2007. Please RSVP if possible but don't stay away if you forget.

Mimi Garstang

Mimi Garstang has served as the Missouri State Geologist and Director of the Division of Geology and Land survey since June, 2000. She has sincerely appreciated the honor of serving our state in this capacity and has focused division goals on assisting Missouri's residents with a better understanding of Missouri geology. She thinks of herself as a very practicable person and firmly believes when we apply geologic knowledge and principles to real world problems, we can make much better environmental and economic decisions in our state. Geology is a factor in our everyday lives; and as professionals working in the field today, we are faced with the challenge of ensuring we have capable geologists to follow or jump ahead of our footsteps in the future.

Mimi started working for the Division of Geology and Land Survey in 1979 and one of

her first assignments was to crush rock core for sample analysis. She has enjoyed many different assignments over the years in a variety of sections within the survey. She describes her most rewarding experience as the years she worked in the Environmental Geology Section on waste disposal projects, hazardous waste site remediation programs and ground subsidence associated with underground coal and clay mines. She has been an active St. Louis Section AEG member for over 25 years. She appreciates the many good friends and professional support that AEG members have provided to her personally and to the Missouri Survey as an organization. This strong working relationship between the Survey and the professional geological community is definitely beneficial to both groups, as well as the people that live and work in our state.

Mimi's current responsibilities as Division Director and State Geologist include serving on the Missouri Well Installation Board, the Missouri Oil and Gas Council, the Missouri Land Reclamation Board, the Missouri Geologist Registration Board and represents Missouri in the Central United States Earthquake Consortium. She thanks the Kansas City/Omaha Section of AEG for recognizing the Division of Geology and Land Survey as part of their 40th year anniversary celebration.

ABSTRACT

The Missouri Geological Survey - New Directions Our Geologic Past is Key to Our Future

The Missouri Geological Survey or Division of Geology and Land Survey was established as a state agency in 1853. While our organization was originally created as an economic engine to explore and develop the state's vast mineral resources, we have faced many changes in our priorities and direction over the last 150 years. Our agency, however, has remained strong in recognizing the importance of applying the geologic data we collect and the principles we understand to help find solutions for real world problems. While the geology of the state of Missouri has not drastically changed in the last 150 years, our understanding of our subsurface environment and the impact man has on our geologic resources and how we can effectively utilize and protect our geologic resources has seen a significant evolution. Much like the Association of Engineering and Environmental Geologists, we are focusing on helping people understand their geologic environment, accommodating their actions to utilize and protect our geologic resources, and assisting others in mitigating any environmental concerns. It is clear that energy and water issues will be priorities for the Missouri Survey in our near future.

Meeting the nation's energy needs in a safe, clean and economically viable manner is something we hear about on the news almost every day. As energy costs continue to rise, industry is becoming more interested in exploration for and production of unconventional energy resources such as coalbed methane, tar sand, oil shale and synthetic natural gas. Another energy related issue of major importance is the safe geologic sequestration of carbon dioxide emissions in order to burn coal more cleanly and improve air quality. With increasing national debate over climate change and the prospect of federal

regulation of carbon dioxide emissions from power plants, we must also evaluate the potential to separate and capture this gas and permanently store it underground. Basic geologic studies and resource evaluations will provide the necessary information to assess the viability of these new technologies in our state.

Declining water supply reserves, excessive population growth in certain areas of the state and increased agricultural demand is causing us to re-evaluate our potential to sustain sufficient, high quality drinking water for future generations. In order to adequately plan and prepare for the water needs of Missourians one must first understand our geology. Not only do we need to understand the depth, permeability and porosity of our aquifers, but we also need to understand the relationship of surface water and groundwater interaction and how these relate to groundwater recharge. The protection of our water supplies and the remediation of groundwater that has been degraded are also huge environmental challenges where basic geologic principles must be included in the decision making process. Water resource evaluations cannot be properly completed without looking at the broad geo-environmental landscape.

Energy resource demands and water supply needs are two major issues facing our state and our nation today that require a basic and fundamental understanding of our geologic past. The success that society has in addressing these two issues will greatly influence the success or failure of many other decisions we have to face in this century. Professional geologists must be critical players with strategic information and recommendations in various stages of the decision process to adequately resolve these issues. The Missouri Geological Survey is preparing itself to support the geologic profession and others working in our state on both these important challenges.

Directions

Diastole
2501 Holmes Street
Kansas City, Missouri 64108
Tel (816) 235-8855

How to Find Us

If you are coming to Diastole and traveling:

» **South on I-29/71 (or coming from the north)**

Follow I-29 South until it becomes I-35 South. Follow directions for traveling south on I-35.

» **South on I-35 (or coming from the north)**

Follow signs for I-70 West and I-35 South; exit at Oak Street; stay in right hand lane and follow street to the right onto Oak (you will loop around). Continue on Oak (S).

Oak becomes Gillham. Turn left (E) on 26th Street. Go two blocks and turn left (N) on Holmes Street. Diastole is located on the right (E) side of the street, just before the 25th Street intersection.

» **North on I-35**

Exit Southwest Boulevard/Mission Road; keep left and follow Southwest Blvd. to 31st Street; turn right (E) on 31st Street. Go several blocks (past Broadway and Main) to Holmes; go left (N) on Holmes. Diastole is located on the right (E) side of the street, just before the 25th Street intersection.

» **West on I-70 (or coming from the east - i.e. Missouri)**

Exit I-70 from right lane to downtown 13th Street exit. Turn left (S) on Charlotte. At 26th Street, turn right (W) and another right (N) onto Holmes Street. Diastole is located on the right (E) side of the street, just before the 25th Street intersection.

» **East on I-70 (or coming from the west - i.e. Kansas)**

Take I-70 east to 11th Street exit. Remain in left lane of exit ramp. Take first left (S) turn his turns onto Charlotte Street. At 26th Street, turn right (W) and another right onto Holmes Street (N). Diastole is located on the right (E) side of the street, just before the 25th Street intersection.

» **North on 71 highway (or coming from the south)**

Take 71 highway and exit on 22nd Street. Go left (W) on 22nd Street to Charlotte Street; go left (S) on Charlotte to 26th Street; go right (W) on 26th Street to Holmes Street; go right (N) on Holmes. Diastole is located on the right (E) side of the street, just before the 25th Street intersection.

Limited off-street parking (approx. 30 vehicles) is available. The entrance to the parking area is located just south of 25th Street, on the right (E) side of the street. Follow signs. There is a sign labeled 2501 Parking at the entrance to the parking lot. Additional parking is available on Holmes, 25th, and Charlotte streets.