



**Association of Environmental and Engineering Geologists  
Kansas City/Omaha Section  
January 2008**

**Membership 2008**

Welcome to Membership Year 2008! This year the Kansas City/Omaha Chapter is focusing on **membership**. First, to revitalize enthusiasm among the current members, we have planned a variety of events to include **new venues and new meeting times**. See the section below to get a taste.

The second part of the endeavor requires help from all of you. Bring along a new face to any meeting this year and receive a **free gift**. Recruit a new member to the KC/O chapter and earn **free attendance** at the next meeting for both of you. A membership form can be found at the end of this newsletter.

(And don't forget to renew **your** membership!)

**A Sneak Peek at 2008**

Mark your calendars for **Thursday, March 6<sup>th</sup>**. Professor **Scott Hageman** of the Geology and Geography Department at Park University has graciously offered to give AEG members a tour of the underground. We will meet at the MaAfee Library entrance at 4:00 pm. We will have a bit of dessert for energy, then begin our walking tour. There will be plenty of time for questions as we go. We should return to the Library around 6:00 pm. Look for more details and a map in the near future.

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Next on the itinerary for this year, **Dr. John Clague**, this year's **Jahns Distinguished Lecturer**, will speak to our chapter on **April 9<sup>th</sup>**. The presentation and location have yet to be determined.

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On **May 12<sup>th</sup>**, the KCO Chapter will meet in Omaha, NE. Gather yourselves and prepare to carpool to hear a wonderful presentation by **Dorian Kuper**, current President of AEG. More details will be available as arrangements are finalized.

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AEG is currently planning Fall Field Trip for 2008. We will be visiting the **Doe Run Mine** near Viburnum, Missouri. The trip is scheduled for **October 9<sup>th</sup> and 10<sup>th</sup>**. We will be touring a Lead Mine, followed by a tour of one of Doe Run's reclamation projects where they are cleaning up a mine waste area in the Old Lead Belt under a Superfund Removal Action. More information on registration and travel logistics is to follow.

**Latest News**

*Dam and Reservoir Safety in Missouri  
Legislation Status – by Jim Williams*

Missouri with 5206 dams ranks **third in the nation** with numbers of dams 25 feet or more in height. Attention getting news is Missouri ranks **first in High Hazard numbers** at 1198. More attention getting is 740 of these are not regulated and never have been. And making matters even worse, many of these impound sizeable amounts of water. Last year legislation to bring these unregulated High Hazard dams into the regulated category failed. A second try is presently underway with **Representative Walt Bevins** as sponsor. To make it a go for filing however, we need cosponsors. Our deadline for that is **Friday, February 2nd**. Jim Alexander, Missouri's Chief Engineer of Dam Safety and Jim Williams are seeking cosponsors during the week of January 27th. The legislation for this



year proposed by DNR is similar with last year in requiring all High Hazard Dams 25 feet and higher to be regulated by the state. Proposed registration fees remain similar with last year. The registration exception is those dams upstream of dwellings and other inhabited locations that store less than 50 acre-feet of water. These exceptions and other larger Low Hazard dams are to be registered by location only and not subject to fees.

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As you may recall, the KC/O chapter presented a plaque and citation **Mimi Garstang**, MDNR State Geologist, after her presentation in **September 2007**. This recognition was followed in **November** by a commendation from Doyle Childers, Director of MDNR. Mr. Childers read the AEG citation and applauded the efforts of the Missouri Division of Geology and Land Survey, Geological Survey Program for its "superior service to the geology community and to the citizens of Missouri." He further expressed gratitude for the role of the Survey as "an important source of geologic information and technical support." The plaque was presented to Joe Gillman, Geological Survey Program Chief, at the DGLS offices in Rolla.



Doyle Childers, left, presents a commendation to Joe Gillman. Also present are Mimi Garstang, far left, and Pat Mulvaney and Peter Price, far right.

## Opportunities

The **Geohydrology Section** of the Kansas Geological Survey (KGS) is looking for applicants for up to FOUR KGS Applied

**Geohydrology Summer Research Assistantship** positions for the summer of 2008. It's a wonderful opportunity for students to get field experience, work with a renowned team of geologists, and get paid, too! More information is provided later in this newsletter.

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The AEG Kansas City-Omaha section is in the process of expanding its boundaries to include members of the **Arkoma** section. We look forward to welcoming these members to our Section.

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John Moylan is a member of the association's recently formed **Students and Young Professionals Support Committee**. The committee has identified some very interesting initiatives. The highest priority initiatives deal with supporting students. Some of the first actions will focus on providing information geology as a profession, developing a mentor system for students, and establishing a visiting technical lecture program. As the program develops, the KC/Omaha Section will be asked to help with these very important activities. Many of you would be excellent mentors or technical lecturers. You will be hearing more in the near future.

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**Dr. Syed Hasan**, Professor of Geology and Chair, Department of Geosciences, **University of Missouri-Kansas City**, has recently been appointed to chair the AEG's *Environmental Characterization and Remediation Technical Working Group (TWG)*. This is a new group and Syed would like to hear from members with expertise in this area who may be interested in the TWG.

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In Fall 2007, **Syed** was invited by the Government of India to the **2007 South Asia and Sixth East Asia Forum**, held in New Delhi, Nov. 28-29. Syed's presentation was titled "*Economic growth and Sustainability*" wherein he emphasized the importance of minimizing adverse environmental impact from rapid industrialization and the need for proper planning before approving major development projects.



### Other News

We extend our sympathies to **John Caolie**, past chairman of the KC/O Section. His wife, Anna Caolie passed away in October 2007. A donation was made from AEG KC/O Section to Odyssey Health Care in her memory.

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We would also like to remember **Ken Doe**, a past president of the **Nebraska Geological Society (NGS)**. Ken Doe passed away on Monday, January 21 after a long illness. Ken was a charter member of NGS and worked on the writing, and rewriting, of the bylaws as well as on different committees through the years. He will be missed.

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AEG has again added more information to the **national website**. The Student section has been redesigned to include additional resources and information. Information is now available which is specific to all levels of students, from high school to undergraduate to graduate level. AEG now lists more scholarship and grant opportunities, university links, and even summer field camp information. Click on STUDENTS from [www.aegweb.org](http://www.aegweb.org) or click on the direct link <http://www.aegweb.org/i4a/pages/index.cfm?pageid=3278> for more information.

### KC/O Section Website

[www.vocshop.com/aeg](http://www.vocshop.com/aeg)

If you have information on interesting projects, hobbies, or research you would like to see on the website or in our section newsletter, feel free to contact Josh Sales or Yvonne Huff. Contact information is listed below.

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### 2007 – 2009 KC/O Section Officers

Chair - Julie WestHoff  
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**APPLIED GEOHYDROLOGY SUMMER RESEARCH ASSISTANTSHIP  
KANSAS GEOLOGICAL SURVEY  
THE UNIVERSITY OF KANSAS  
LAWRENCE, KANSAS**

The Geohydrology Section of the Kansas Geological Survey (KGS) invites applications for up to FOUR KGS Applied Geohydrology Summer Research Assistantship positions for the summer of 2008. The positions are available for graduate students and upper-level undergraduates with an interest in learning more about recent developments in hydrogeological field methods. Positions are open to students at any university. This will be the ninth year for the program. Positions in previous summers have been held by students from Appalachian State, Colorado School of Mines, Montana Tech, Northern Iowa University, Oberlin College, Southern Illinois University, University of Colorado, University of Göttingen, University of Kansas, University of Minnesota at Duluth, University of Mississippi, University of Pittsburg, University of Tübingen, and University of Wisconsin-Madison. All past participants have co-authored articles or presentations based on the summer work.

**POSITION:** KGS Applied Geohydrology Summer Research Assistantships

**STARTING DATE:** Positions available after **May 19, 2008**.

**APPLICATION DEADLINE:** First consideration given to application material received by **February 24, 2008**.

**SALARY:** Salary **\$6,250** for each 12-week assistantship. Expenses of travel to and from Lawrence are not provided. All work-related travel expenses will be provided by the Kansas Geological Survey.

**DUTIES:** This assistantship is a 12-week summer position during which the individual will work with KGS and Kansas State University (KSU) hydrologists on a variety of field activities in support of KGS research programs. There are expected to be three primary themes for the 2008 activities. Fifty percent of the summer will be spent on fieldwork in support of a cooperative KGS/KSU study of groundwater consumption by phreatophytes in riparian corridors (Butler et al., 2007, *Water Resour. Res.*, 43, W02404; Loheide et al., 2005, *Water Resour. Res.*, 41, W07030; [www.kgs.ku.edu/Hydro/Phreato/index.html](http://www.kgs.ku.edu/Hydro/Phreato/index.html)). Thirty percent of the summer will be spent investigating new direct-push methods for estimating spatial variations in hydraulic conductivity (Butler et al., 2007, *Ground Water*, 45, no. 4; Sellwood et al., 2005, *Ground Water*, 43, no. 1; Butler et al., 2002, *Ground Water*, 40, no. 1; Butler, 2002, *Ground Water*, 40, no. 3; [www.kgs.ku.edu/Hydro/DirectPush/index.html](http://www.kgs.ku.edu/Hydro/DirectPush/index.html)). Ten to fifteen percent of the summer will be spent on fieldwork in support of a study of stream-aquifer interactions (Butler et al., 2007, *Ground Water*, 45, no. 2; Butler et al., 2001, *Ground Water*, 39, no. 5; [www.kgs.ku.edu/StreamAq/index.html](http://www.kgs.ku.edu/StreamAq/index.html)). The remainder of the summer will be spent on preparing the results of the research for publication.

**REQUIRED QUALIFICATIONS:** Relevant coursework in earth sciences or engineering. Interest in hydrogeology. Ability and willingness to participate in moderate physical activity in mid-summer temperatures in Kansas. Clear communication skills.

**PREFERRED QUALIFICATIONS:** Coursework in hydrogeology. Experience with Windows-based computers and Excel.

**APPLICATION PROCEDURE:** Apply online at <http://jobs.ku.edu>; search by Research Assistant title. Complete online application, provide contact information for three professional references, attach resume, and mail official college transcripts to: Annette Delaney, Kansas Geological Survey, The University of Kansas, 1930 Constant Avenue, Lawrence, KS 66047; PH: (785) 864-2152, FAX: (785) 864-5317, [hr@kgs.ku.edu](mailto:hr@kgs.ku.edu). For further technical information contact Jim Butler at [jbutler@kgs.ku.edu](mailto:jbutler@kgs.ku.edu). Additional information about the type of work to be done can be found at [www.kgs.ku.edu/General/Personnel/abc/butler.html](http://www.kgs.ku.edu/General/Personnel/abc/butler.html).

**KANSAS GEOLOGICAL SURVEY:** The KGS is a research and service division operated by The University of Kansas. Created in 1889, the Survey studies the geology of Kansas, develops new techniques for exploring and analyzing geologic data, and produces maps, reports, and scientific papers. The Survey currently employs more than 80 researchers and technicians engaged in a variety of disciplines, including geology, geophysics, geohydrology, computer science, geochemistry, stratigraphy, and other areas. In addition to its headquarters in Lawrence, the Survey operates a well sample library in Wichita that is a repository for rock samples from oil and gas wells drilled in the state.

The Survey is organized into four research sections and a number of service sections. The research sections are geohydrology, energy research, geophysical exploration, and stratigraphic research (including geologic mapping, coal and mineral investigations, and engineering geology). The KGS provides full-service support for a diverse array of computing platforms and software, GIS applications, editing and publishing, and cartography. The Survey maintains a variety of geophysical and exploration tools and equipment, including a state-of-the-art shallow seismic reflection system, ground-penetrating radar, Geoprobe, two drill rigs, well-logging unit, electromagnetometers, rock preparation lab, and an analytical chemistry lab.

Survey scientists are internationally recognized for their work in the applied geosciences. Current Survey staff include the 2007 Henry Darcy Distinguished Lecturer of the National Ground Water Association and three Fellows of the Geological Society of America. Staff of the Exploration Services Section were awarded the prestigious Distinguished Achievement Award of the Society of Exploration Geophysicists in 2002. In addition, numerous current Survey scientists have garnered awards for technical presentations and achievements.

**LAWRENCE:** A city of approximately 80,000, Lawrence is located on a rolling landscape 35 miles west of the major metropolitan area of Kansas City and 20 miles east of Topeka, the state capital. Lawrence offers the cultural and athletic events of a university setting.

THE UNIVERSITY OF KANSAS IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER. THE UNIVERSITY ENCOURAGES APPLICATIONS FROM UNDER-REPRESENTED GROUP MEMBERS. FEDERAL AND STATE LEGISLATION PROHIBITS DISCRIMINATION ON THE BASIS OF RACE, RELIGION, COLOR, NATIONAL ORIGIN, ANCESTRY, SEX, AGE, DISABILITY, AND VETERAN STATUS. IN ADDITION, UNIVERSITY POLICIES PROHIBIT DISCRIMINATION ON THE BASIS OF SEXUAL ORIENTATION, MARITAL STATUS, AND PARENTAL STATUS.

## MEMBER BENEFITS

Networking, with colleagues at meetings, through technical publications and on the AEG web page, is a valuable professional development benefit because it allows a member to:

- ◆ Broaden and update technical, practical and business knowledge.
- ◆ Keep career paths open by assuring that the value, utility and scope of engineering geology is recognized in the scientific, technical, legal, and regulatory arenas.
- ◆ Explore numerous opportunities for career enhancement through contacts at technical meetings and in continuing education programs.
- ◆ Influence the profession of environmental and engineering geology as it serves society and as it is regulated.
- ◆ Establish the standards of the profession.

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AEG members receive our quarterly professional journal, *Environmental and Engineering Geoscience* and six-issues of the *AEG NEWS* as a regular dues benefit.

Members also enjoy a 20% “member discount” on all special publications, registration fees at meetings, short courses and field trips.

## PROFESSIONAL DEVELOPMENT

*AEG -- Serving Professionals in  
Environmental, Ground-Water and  
Engineering Geology since 1957*

- ◆ AEG sponsors workshops and short courses for which official Continuing Education Units are offered.
- ◆ AEG encourages its members to participate in activities of mutual interest with other societies and organizations.
- ◆ The annual Richard H. Jahns Distinguished Lecturer in Engineering Geology is co-sponsored by AEG and the GSA Engineering Geology Division.
- ◆ AEG members make presentations and lead field trips for students at all levels.
- ◆ AEG’s Technical and Professional Practice Committees keep the Association in a position of influence through their wide-ranging activities.
- ◆ AEG’s 25 Sections and 20 Student Chapters provide educational and networking opportunities for members through regular meetings, field trips and local newsletters.
- ◆ Students compete for scholarships and awards, and interact with practicing professionals.
- ◆ Short courses, field trips, and technical sessions provide opportunities for AEG members to enhance their professional practice.
- ◆ International members are found in more than 20 countries and Designated Correspondents enhance technology transfer among more than a dozen countries.

## MEMBERSHIP APPLICATION

# ASSOCIATION OF ENVIRONMENTAL & ENGINEERING GEOLOGISTS



The Association of Environmental & Engineering Geologists (AEG) is an international, non-profit scientific and technical society, whose 3,000 members include geologists specializing in engineering geology, environmental geology, and ground-water geology as well as other professionals in affiliated fields such as civil and mining engineering, land-use planning, public policy and education.

Through its technical and professional activities, AEG strives to promote the value and importance of geologic practice in:

- ◆ detecting, containing, and remediating contaminated soil and ground water;
- ◆ recognizing and mitigating hazardous geologic processes to promote public safety and welfare; and
- ◆ siting, planning, designing, constructing, and maintaining engineered works.

Check Us Out  
[www.aegweb.org](http://www.aegweb.org)

## MEMBERSHIP REQUIREMENTS

**MEMBER:** Applicants for Member Class shall hold a degree in geology, engineering geology or geological engineering, or a degree in a related professional field with 30 semester-hours of credit in the geosciences. In addition an applicant shall be practicing in the field of Engineering Geology, Environmental Geology or Hydrogeology. Annual Dues for new (first-time) Members = \$75.00 per year for the first three years of membership. Otherwise Annual Dues = \$115.00. Applicants who qualify for Member Class, but are engaged in full-time teaching at the Primary or Secondary (K-12) level are eligible for Teacher Status (Annual Dues = \$35.00).

**AFFILIATE:** Applicants for Affiliate Member Class shall be scientists or engineers who work with engineering geologists; teachers engaged in middle-school and high school Earth Science education; or persons interested in engineering geology. Annual Dues = \$70.00 (Teacher Dues = \$35.00)

**STUDENT:** Applicants for Student Member Class shall be full-time students enrolled in an academic program in the geosciences or in a related field in engineering. Annual Dues = \$25.00

**INTERNATIONAL:** Applicants shall hold the same requirements as for Member Class, but may select from the following dues schedule: \$35, which includes the Environmental *and Engineering Geology Journal*; \$45 with the Journal, the Annual Directory and the Annual Meeting Abstracts; or \$55 with the Journal, Annual Directory, Annual Meeting Abstracts and the *AEG News*.

AEG memberships are based on calendar year. Applications received after October 1 will be entered for following calendar year.

## APPLICATION FORM

Please complete this form and mail it with your Annual Dues payment to the Association's Headquarters office for processing. New member applicants do not pay Section dues for their initial year of membership.

Name: \_\_\_\_\_  
(Please print your name as you would like it shown on your membership certificate.)

**PREFERRED ADDRESS:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**WORK PHONE:** \_\_\_\_\_ **FAX:** \_\_\_\_\_

**PREFERRED E-MAIL:** \_\_\_\_\_

Second Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Home Phone: \_\_\_\_\_

**DESIRED CLASS OF MEMBERSHIP:** \_\_\_\_\_ **ANNUAL DUES AMOUNT:** \_\_\_\_\_

**CERTIFICATION:** \_\_\_\_\_

(Signature)

My signature attests that, to the best of my knowledge, I meet the academic and practice requirements for the membership class I have requested and that all entries on this application are true and correct. I also authorize AEG to charge my credit card for the dues payment, if I selected the credit card payment option.

Enclosed is my check for the amount of Annual Dues of \$ \_\_\_\_\_

**Credit Card Payment Option**

Discover  Master Card  Visa Amount of Dues to be charged to my card = \$ \_\_\_\_\_

Card Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

**SUBMISSION:** Send this form with your check or credit card authorization to:  
Association of Environmental & Engineering Geologists, PO Box 460518, Denver, CO 80246  
Phone: 303-757-2926: FAX: 303-757-2969: AEG Web: [www.aegweb.org](http://www.aegweb.org)