

## St. Louis Section Officers & Directors 2007-2008

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# ASCE

ST. LOUIS SECTION



February 2008

## *Please join ASCE, MSPE, EC, & SAME for the Annual Engineers' Week Luncheon Meeting*

### *Speaker:*

**Brian Johnson, Natural Resource Planner, U.S. Army Corps of Engineers,  
St. Louis District**

**Location:** The Engineers' Club of St. Louis, 4359 Lindell Blvd.  
**Date/Time:** Tuesday, February 19, 2008 11:15 Registration / 12:00 Lunch  
**Cost:** \$20 per person Make checks payable to Engineers' Club

**Reservations:** Call Kurt at the Engineers' Club for reservations by noon Friday, February 15th: 314-533-9333, or fax: 314-533-9336, or email: kurt.krispin@engineersclub.net . *ASCE is charged for all reserved lunches. If you've signed up and can't make it, please cancel with Kurt by the Tuesday before the meeting or we will have to charge you for the meal.*  
**1/2 PDH will be awarded to attendees.**

### **Topic: Ecosystem Restoration and Environmental River Engineering on the Mississippi River**

The St. Louis District Corps of Engineers is under congressional mandate to maintain a dependable nine-foot navigation channel on the Upper Mississippi River from Saverton, Illinois to the river's confluence with the Ohio River. The Corps has traditionally used dikes and revetment to maintain the navigation channel. A growing realization of the role that channel improvement structures can play in altering and creating habitat can be seen as far back as 1972 when the St. Louis District began notching dikes to increase habitat diversity. In 1996, the St. Louis District began implementing an Avoid and Minimize Program to reduce the impacts of navigation on the Mississippi River. Measures implemented under this program include the construction and monitoring of innovative river training structures. These innovative structures include bendway weirs, chevron dikes, bullnose dikes, off-bank revetment, multiple roundpoint structures, and notched dikes. Physical monitoring of these structures has shown them to be effective river training structures. Biological monitoring of these structures has found that they have increased habitat diversity in the river compared to habitat produced by more traditional measures. Innovative structures are not only being found to provide valuable aquatic habitat, but can also be used to create wetland habitat, islands, and side channels. While these new structures will not completely replace the need for traditional dike and revetment work, they have become a normal part of the St. Louis District's channel maintenance program.

**About the Speaker:** Brian Johnson has been with the St. Louis District since 1994 and serves as the District's Ecosystem Restoration Business Line Manager. He spends most of his time working with the District's natural resource partners to develop and implement environmental restoration projects within the region. He is also heavily involved in the Corps' Navigation Ecosystem Sustainability Program (NESP), which is charged with balancing the needs of the Mississippi River region through navigation improvement projects. Brian is a graduate of the University of Missouri – Columbia with both a B.S. and M.S. in Fisheries and Wildlife.

## *Welcome New Members*

The St. Louis Section would like to welcome our new members who joined us in December 2007: Eric Fields, Kunal Singh, James Van Becelaere



## President's Message

By Allen Minks

On a personal note, I changed employment on January 21. My new contact information is provided in the left margin on the first page of this newsletter. I want to thank SCI for their support to me and their dedication to ASCE by allowing me to serve on the Board my entire seven years with them. As the Past-Presidents know and those currently on the Board, service to ASCE or any other professional organization can be very time consuming. SCI is very supportive of their employees serving on committees within professional organizations; as I progressed through the ranks, more and more time was required, including out of town travel. Through it all, SCI provided continuous support. Again, I say thanks and hope that more companies would provide similar support.

We had a very interesting subject for the January Luncheon. Tom Ratzki spoke about James P. Kirkwood, an engineer from New York who was a pioneer in the railroad industry and also in water treatment, including original design of the Chain of Rocks Water Treatment Plant. Mr. Kirkwood also founded the Engineers'

Club of St. Louis. We learned that both Kirkwood, New York and Kirkwood, Missouri were named after James. His final resting place is near Kirkwood, New York, marked with an ASCE sponsored monument. However, there is no monument in Kirkwood, Missouri, to acknowledge him or any of his works. Several members have expressed an interest in supporting the commissioning of a monument in Kirkwood, Missouri. I would be pleased to hear from you relative to your thoughts on the matter. The Board will be discussing this subject at our next meeting.

February includes Engineers' Week, so this year we will once again be having a joint luncheon with the various engineering organizations. Thanks to Kurt Krispin for organizing this year's event. Please see the announcement on the cover sheet of this newsletter. Our Younger Member Committee will be participating in events at the Science Center during Engineers' Week. This year, the Science Center is interested in having speakers from the various engineering organizations speak prior to Engineers' Week. If you are interested, please contact Bryan Maddox, our Younger Member Committee Chair. Any help would be greatly appreciated.

We received a request from

the University of New Orleans ASCE Chapter concerning a contribution to their concrete canoe and steel bridge programs. They are still recovering from the losses suffered by Hurricane Katrina damage, and they are trying to rebuild these programs back to the competitive level they had before the hurricane. The Board will be discussing their request at our next meeting, and any input from you is welcome. These programs are strong in our Section Universities, and we continue to support them each year.

We are very excited to announce that the SIUC/SIUE Cooperative Ph.D. program is off to a strong start. Southern Illinois University Edwardsville is now recognized as a residency center for the Engineering Science doctoral program at Southern Illinois University Carbondale. This makes it possible to offer a Ph.D. program to potential students in the St. Louis area. Please contact Dr. Oktay Alkin, Ph.D., Associate Dean for Research and Development, SIUE, at (618) 650-2541 or at [oalkin@siue.edu](mailto:oalkin@siue.edu).

I look forward to seeing you at the Joint-February luncheon.

Respectfully,

Allen G. Minks, P.E.

## Calendar of Events

February 9-March 29— MSPE PE Review Course  
 February 15—Geo-Omaha 2008 Geotechnical Seminar  
 February 18-22—Engineers' Week  
 February 19—Engineers' Week Luncheon  
 February 26—Geotechnical Committee Discussion "Standard of Practice Stone Columns / Aggregate Piers"  
 February 26-27— National Flood Risk Management -- Levee Safety Summit  
 March 3 & 4—Explosion Effects and Blast Design Training  
 March 11—Luncheon Meeting  
 March 14—Water Quality Rules and BMP's Seminar  
 April 8—Luncheon Meeting  
 May 8-9—Earthday Symposium, UMSL, "Tools for Sustainable Water: Policy & Practice"  
 May 13—Luncheon Meeting  
 June 2-8—Midwest Levee Conference – St. Louis, Flood Risk Management  
 June 22-24—Greening the Heartland Conference

**Make sure you keep your register information up-to-date by contacting the National ASCE at <http://www.asce.org> or call 800-548-ASCE (2723)!!**

## Volunteers Needed

### *Practitioner Advisors*

The Committee for Student Involvement is looking for volunteers to serve as Practitioner Advisors to the Section's five student chapters: SIUE, SIUC, Washington U, UMC, and UMR. Practitioner Advisors serve as liaisons between student chapters and the section. If you are interested in serving, or would like more information, please contact Adam Spector, [aspector@stlouisco.com](mailto:aspector@stlouisco.com).

## Presentations on Behalf of ASCE

If you wish to make presentations or if you plan or participate in events on the behalf of ASCE, please notify the Community Involvement Committee. You can contact any of the following committee members: Steve Randolph, Lisa Fennewald, Paula Grahlherr, and Mark Bacchetti.

## ASCE "Younger Member Newsletter" Winter Issue

The Committee on Younger Members is pleased to provide you this issue which may be accessed at <http://www.asce.org/inside/files/pdf/issue62.pdf>

## A Message on Dam Safety from Adam Gagnon, Manager, State Government Relations, ASCE

I would like to inform you of some significant developments regarding the issue of Dam Safety in Missouri.

In the 2007 Session, Dam Safety legislation was introduced in the Missouri legislature. That legislation, House Bill 159, unfortunately did not make it out of Conference Committee last year.

Through contacts in the Association of State Dam Safety Officials (ASDSO), ASCE has learned that there is a significant interest in trying again this year to get Dam Safety legislation passed. Members of the legislative branch and the Governor's office have expressed the desire to work on the issue of dam safety.

So far, ASCE has sent letters of support to Governor Matt Blunt, Missouri Dept. of Natural Resources Director Doyle Childers and State Representative Walt Bivins. Mr. Bivins introduced the previous year's legislation that did not pass.

In these letters, ASCE has offered any assistance possible, including providing written or oral testimony, seeking of additional supporters in the State Legislature and providing technical assistance.

ASCE to date has received a response from Mr. Bivins in which he stated he was planning on filing Dam Safety legislation soon after the 2008 session starts. He would appreciate ASCE's input to assure that Missouri conforms to National Dam Safety Standards as a minimum requirement.

### **How can you help?**

Once legislation has been introduced, ASCE will inform you and we can work together to pass this important legislation. Look for updates to let you know how things are progressing. When grassroots support is needed, you will be asked to contact your legislator and ask him or her to support the bill.

Until then, there are a few things that you can do:

- Be knowledgeable on the issue. If questions arise in your workplace, among your colleagues and peers, be prepared to discuss informatively. If you are a member of other engineering/architectural organizations, look for opportunities to share information with those groups.

### **Questions?**

If you have questions, feel free to contact me as indicated below.

Sincerely,

Adam Gagnon  
Manager, State Government Relations  
American Society of Civil Engineers  
[agagnon@asce.org](mailto:agagnon@asce.org)  
202-789-7845

For details & updates see our Web Page: <http://sections.asce.org/stlouis/index.html>  
This newsletter will be sent to all Section members via e-mail.

## ASCE St. Louis Section 2007-2008 Budget

### INCOME

#### INCOME CATEGORY

Monthly Membership Luncheons	\$3,500
Annual Dinner (9/08)	\$3,000
Executive Board Meetings	\$150
<b>Educational Course Income</b>	<b>\$20,000</b>
Scholarship Donations (Life Member Donations and Voluntary Dues)	\$3,000
Golf Tournament	\$11,000
Younger Members	\$250
SPAG Merit Grant	\$1,500
Section Dues	\$18,000
Society Allotment	\$8,000
<b>TOTAL INCOME</b>	<b>\$68,400</b>

### EXPENSES

#### EXPENSE CATEGORY

Monthly Membership Luncheons	\$4,000
Holiday Social	\$3,500
Annual Dinner (9/08)	\$5,000
Executive Board Meetings	\$500
Scholarships (From Voluntary Dues, Life Members, and Golf Tournament Profit)	\$7,500
Educational Courses	\$20,600
Engineers Week	\$200
Golf Tournament (Expenses, not profit)	\$9,000
General	\$600
Office Supplies, Postage, and Newsletter	\$1,450
Public Involvement	\$200
Luncheon Speakers Gift	\$300
Younger Members	\$1,000
Student Activities	\$4,500
Awards	\$1,200
Career Guidance	\$2,810
SPAG Merit Grant Activities	\$1,000
ASCE Region 7	\$500
Outstate Outreach	\$500
Conferences/Travel	\$6,028
Local Society (Engineer's Club Dues)	\$300
<b>TOTAL EXPENSES</b>	<b>\$70,688</b>

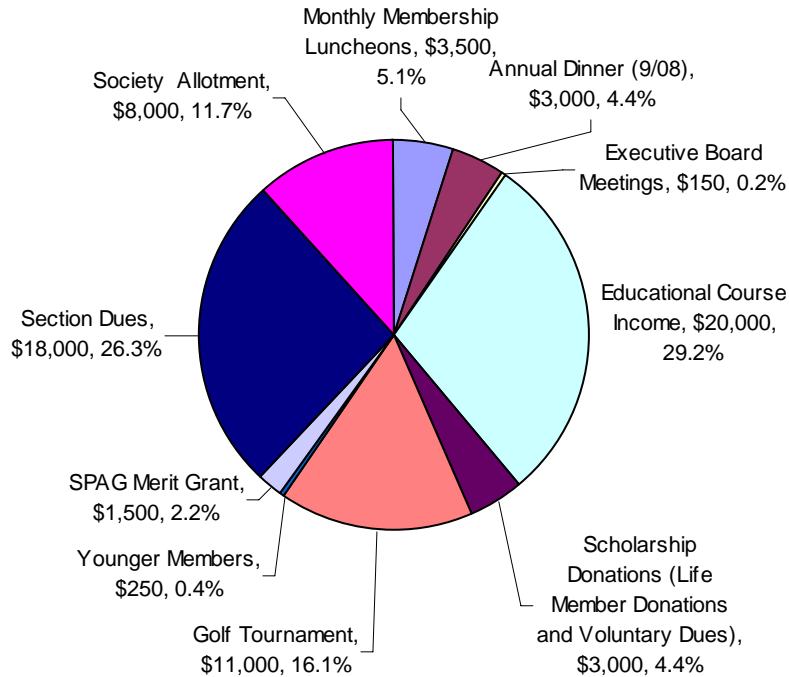
**Note: The ~\$2300 deficit in the budget reflects a projected shortfall in SCHOLARSHIP income.**

Also note that the Transportation, Construction, and Younger Member Committees show a projected deficit.

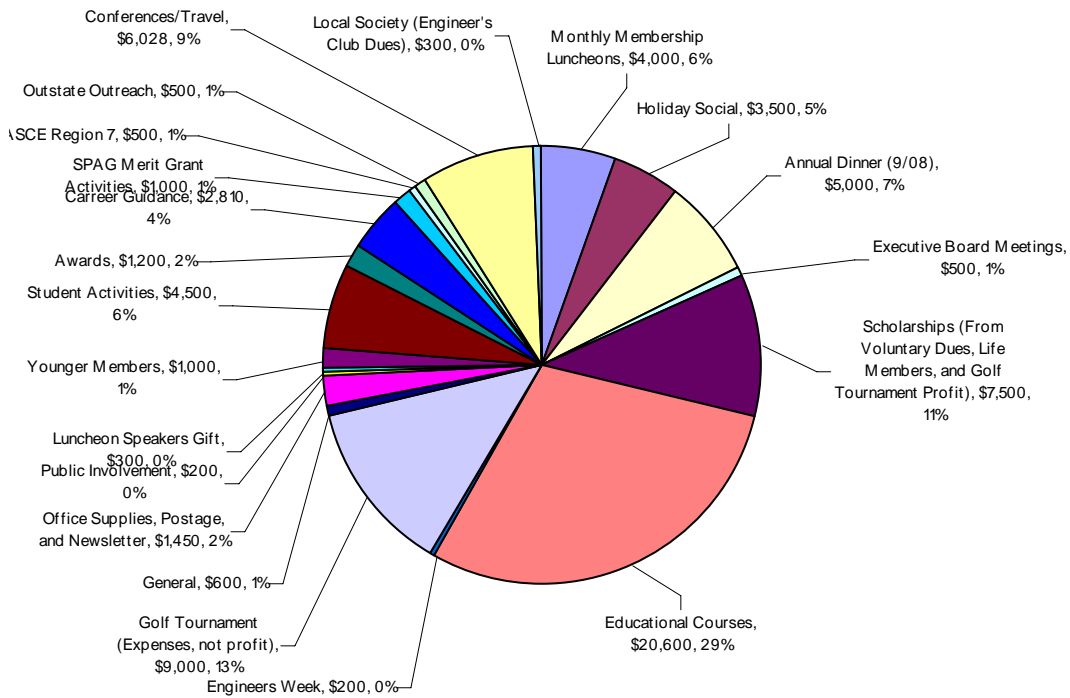
This is "seed money" to allow those committees to become more active in 2007-2008.

## ASCE St. Louis Section 2007-2008 Budget

### Budget Income



### Budget Expenses



## Geotechnical Committee Seminar

**Presented By:** St. Louis Section Geotechnical Committee

**Date:** February 26, 2008

**Time:** 5:30 pm Catered Dinner  
6:00 pm Introductions and Discussion

**Cost:** \$20

**Location:** Geotechnology,  
11816 Lackland Road  
Suite 150  
St Louis MO 63146

**Topic:** "Standard of Practice Stone Columns / Aggregate Piers"

The discussion will focus on the aspects of the geotechnical design and installa-

tion of Vibro Stone Column or Aggregate Piers. Speakers will include Geotechnical and Structural Engineering Consultants.

+/- 2 PDH will be provided depending on length of discussion.  
For reservations, call or email Jeff Hill at 314 802 2923 or JRHill@haywardbaker.com

## Attention Illinois Members: ASCE - Legislative Day

**Presented By:** The Illinois Section of ASCE

**Date:** Wednesday, February 20, 2008

**Where:** Springfield, IL

**Cost:** Free

**Events:** 11:30am-1:30pm - Lunch at the Hoogland Center for the Arts  
420 S. 6th (corner of 6th & Capitol) w/ parking next door in the parking deck.

2:00pm - 4:30pm - Meet & invite House & Senate members at the Statehouse.

5:30pm - 8:30pm - Legislative reception at The Plaza, 416 E. Adams (corner of Adams & 4th)

The event will begin at 11:30 with lunch. The coordinator for the event, David Kelm, will give guidance on how to approach the afternoon in seeking out legislators and encouraging them to attend the reception.

For the next few hours attendees may choose to seek out their legislators at the Statehouse as well as catch them in action on the Floor or in committee.

At 5:30 attendees will meet again to host the reception for members of the General Assembly. The intent of the reception is for the members of the General Assembly to meet ASCE members, learn about the civil engineering profession, develop relationships and establish that ASCE and its engineers

are a resource to their staff and the community they serve.

Special guests tentatively include:

**Kirk Brown** – Former Secretary of IDOT (Confirmed)

**Gary Clark** – Director of IDNR (Awaiting Confirmation)

**Don Vonnahme** – Former Director of IDNR (Confirmed)

**Tom McSwiggin** – 40 Years w/ IEPA - Water Pollution Permitting (Confirmed)

If you have questions please contact: Michael T. Ungeran, PE - Illinois Section ASCE - Chair Government Affairs - ungeran@aol.com

## Water Quality Rules and BMP'S

**Presented By:** St. Louis Section ASCE Water Resources and Environmental Committee

**Date:** Friday, March 14, 2008

**Time:** 8:30 AM to 3:30 PM  
Registration 8:00 AM to 8:30 AM

**Cost:** \$50 per person for ASCE and Engineer Club Members  
\$70 for non-members

**Location:** The Engineering Center at the Engineers' Club  
4359 Lindell Blvd.  
St. Louis Missouri, MO 63108

A presentation and review of the Metropolitan St. Louis Sewer District's water quality regulations and BMP requirements. The presentation shall cover: basic water quality issues, BMP selection, BMP Design (per Maryland Department of the Environment regulations) including design examples and basic calculations, and planting selection and science.

Speakers include:  
Staff of the Metropolitan St. Louis Sewer District, Mr. Scott Woodbury of the Missouri Botanical Garden, Mr. Eric Karch, PE of Reitz and Jens, Inc.

6 PDH's to be provided  
Reservations limited to 100 people  
Lunch Included.

Please RSVP to:  
Kurt Krispin at [kurt.krispin@engineersclub.net](mailto:kurt.krispin@engineersclub.net)  
Or call 314.553.933

A limited number of sponsorship and display opportunities are available at a cost of \$70.

Please contact Michael Buechter at [mtbuec@stlmsd.com](mailto:mtbuec@stlmsd.com)  
Or call 314.768.2772

## 25th Annual Geotechnical Seminar—Omaha, Nebraska

**Hosted by:** ASCE Nebraska Section with the University of Nebraska of Civil Engineering and the College of Engineering and Technology.

**Location:** Scott Conference Center  
Omaha Nebraska

**Date:** Friday, February 15, 2008

**Cost:** \$150 before Feb 15, \$170 after.  
Full time students: \$25

The annual geotechnical seminar provides a forum for the presentation of a wide variety of geotechnical field, design, and construction-related topics.

This year's presenters include Paul Mayne, Hany Riad, Bengt Fellenius, Richard Olsen, Kord Wissman, Dennis Boehm, and Lok Sharma.

A certificate verifying 7.5 Professional Development Hours will be provided to registered attendees.

### WHO SHOULD ATTEND

All professionals who are involved in geotechnical exploration, design, construction, or observation. This would include:

- Engineers/Geologists
- University Instructors

- Technicians/Contractors

For a brochure and registration form go to <http://www.neasce.org/>

## 15th Annual Great Lakes Geotechnical/Geoenvironmental Conference (GLGGC)

**Presented by:** The Geotechnical Group of the ASCE Metropolitan Indianapolis Branch

**Presented by:** The Geotechnical Group of the ASCE Metropolitan Indianapolis Branch

**Location:** The FOUNTAINS Banquet and Conference Center  
Carmel, Indiana

**Date:** May 9, 2008

**Topic:** Applications of Geotechnical Instrumentation for the Performance Evaluation of Constructed Facilities

### KEYNOTE SPEAKERS

W. Allen Marr, Ph.D., P.E.

Dr. Allen Marr is a geotechnical engineer with specialized expertise in the design of large earthwork facilities, ground improvement and performance monitoring. In 1982, he founded Geocomp Corporation, a firm that makes automated testing equipment and remote monitoring systems for civil engineering applications. In 1990, he founded GeoTesting Express, an independent testing laboratory that provides

materials testing and consulting services to the civil engineering and construction industries. Prior to founding Geocomp, he taught at MIT for ten years and worked as a geotechnical consultant with Prof. T.W. Lambe on many international projects, including the Oosterschelde stormsurge barrier in Holland.

Dr. Marr has provided consulting services on a wide variety of projects including earthen dams, tunnels, excavations, embankments, natural slopes, landfills, and foundations. He led the team that monitored all geotechnical instruments for the construction of the \$15 billion Central Artery/Tunnel project in Boston, and a team that provided real-time monitoring of the safety of a deep excavation adjacent to the Kentucky Lock on the Tennessee River. Dr. Marr is a graduate of the University of California, Davis and the Massachusetts Institute of Technology, where he received his Ph.D. in Geotechnical Engineering.

Professor Richard J. Finno, Ph.D., P.E.

Rich Finno is a professor in the Department of Civil and Environmental Engineering at Northwestern University. He has a B.S. in Civil Engineering from the University of Illinois, Urbana, a

MSCE in Geotechnical Engineering from Stanford University, and a Ph.D. in Civil Engineering from Stanford University. Dr. Finno started his career as a soil engineer with Sargent & Lundy Engineers in Chicago before moving on to become a Project Engineer with Woodward-Clyde Consultants in both Chicago and San Francisco. His research interests include adaptive management of excavation induced ground movements, evaluating fullscale performance of earth retention structures, non-destructive evaluation and failure processes in soil. He has consulted on failures associated with soft ground tunnels, retaining structures and sunken caissons, evaluations of ground movements and their effects on structures, slope stability questions, and assessments of damage to structures. He is the author or co-author of 111 reviewed technical papers and 20 technical reports. This work has resulted in recognition from ASCE in the form of the Thomas A. Middlebrooks Award (twice), the Walter L. Huber Civil Engineering Research Prize and the Arthur Casagrande Professional Development Award. He was named the Civil Engineer of the Year by the Illinois Section of ASCE in 2007.

## Call for Nominations for Local Awards

The St. Louis Section is seeking nominations for the following Local Awards:

### Outstanding Civil Engineering Achievement Award

This award is made annually for any engineering project that falls into the general category of civil engineering. Only engineering and construction achievements within the boundaries of the St. Louis Section are eligible. The project must have been completed and placed into operation within 5 years of the date the nomination is submitted. Basis for the Award is "an engineering project that demonstrates the greatest engineering skills, and repre-

sents the greatest contribution to civil engineering progress and mankind".

### Professional Recognition Award

This award recognizes the importance of professional attainment in the advancement of the science and profession of engineering and is presented annually to a Member of the St. Louis Section who has made substantial contributions to the engineering profession and the St. Louis Section.

### Young Engineer Award

This award recognizes professional contributions of younger members to the Society and to the Section and is

presented annually to a Member of the Section who is less than 35 years of age on February 1, 2008.

Please submit nominations to Michelle Meier at [mjmeir@stlmsd.com](mailto:mjmeir@stlmsd.com) or call 314-768-2794. Guidelines and forms for making nominations are available in Word and PDF format on our St. Louis Section website at <http://sections.asce.org/stlouis/> or the information will be emailed or mailed to you upon request.

Deadline for submittal is May 31, 2008

## ASCE Continuing Education Seminars

Detailed descriptions of the seminars (by title) are available on ASCE's website at [www.asce.org/conted/seminars](http://www.asce.org/conted/seminars). Lists of CE courses available in other Regions are listed under the "Links" tab on each Region's website at [http://www.asce.org/inside/sec\\_branch.cfm](http://www.asce.org/inside/sec_branch.cfm). If you have questions or need assistance, please contact Kelly Jarvis, Continuing Education Registrar at [kjarvis@asce.org](mailto:kjarvis@asce.org), or Mark Cook at [mcook@asce.org](mailto:mcook@asce.org).

The following seminars are scheduled in our area:

February 21-22, 2008

Pumping Systems Design for Civil Engineers (Hydraulics)  
Kansas City, MO

February 28-29, 2008

Designing High Performance Concrete

Structures (Structural/Construction)  
Kansas City, MO

March 20-21, 2008

Design and Installation of Buried Pipes (Geotechnical)  
Denver, CO

These in-depth, practice-oriented programs are produced by ASCE's Continuing Education Department.

**Reminder— Don't forget to pay your 2008 National and Section Dues. If you pay your 2008 National Dues, your name will be included in the 2008 Membership Register. If you pay your 2008 Section Dues, you will receive a copy of the Register. We will be using March 1, 2008 membership data for the Register, so you only have a few weeks left to send in your membership dues in order to be placed in the Register and on the Register mailing list.**

## Supplemental

### Greening the Heartland Conference

**Presented By:** St. Louis Chapter of the U.S. Green Building Council

**Date:** June 22-24, 2008

**Location:** St. Louis, Missouri

This regional U.S. Green Building Council conference will promote sustainable design and construction strategies for the built environment by encouraging joint leadership by the private and public sectors. The conference will highlight the latest in green building techniques that achieve energy and operational efficiencies, apply responsible construction and demolition

practices, and aim for carbon neutrality. It will also demonstrate how green buildings promote the "triple bottom line" of profitability, people, and the environment – without compromising resources for future generations.

Greening the Heartland is an annual conference on green building and sustainability in the Midwest; the conference is a gathering for experts, practitioners, administrators, government officials and business to come together. We expect more than 3,000+ conference attendees from the following fields: architecture, engineering, planning, landscape design, contracting and building, urban design, government,

interior design, building ownership, operation and maintenance, real estate development, material suppliers, facility management, property management, and cleaning products and services.

The conference will highlight sustainability innovations, programs and activities in the Midwest states including: Missouri, Minnesota, Michigan, North Dakota, South Dakota, Ohio, Indiana, Kentucky, Arkansas, Oklahoma, Kansas, Nebraska, Iowa, Illinois, and Wisconsin.

For more information, visit [www.greeningtheheartland.org](http://www.greeningtheheartland.org)

### MSPE PE Refresher Course

**Presented By:** Missouri Society of Professional Engineers

**Date/Time:** Saturdays from 8:00am – 12:00pm: February 9, 16, 23, March 1, 8, 15, and 29. There is no class on March 22.

**Cost:** \$430 per each MSPE, ASCE, or SAME member, or \$530 per each non-member

**Location:** The St. Charles Community College

The Missouri Society of Professional Engineers is once again scheduling a PE refresher classes in three disciplines: Civil, Mechanical, and Electrical Engineering.

The classes will be finished two Saturdays prior to the spring 2008 PE exam. Registration deadline is February 1, 2008.

For further information, please contact Scott Becker (Ameren) at 314-554-2242, or Tammie De Los Santos

(Coordinator for School Business Programs, St. Charles Community College) at 636-922-8342. Information and course brochure can also be obtained at <http://www.mspe.org> under the St. Louis Chapter link.

Reference books and other material can be purchased from Professional Publications, Inc. If this is done through the MSPE website, students will receive a 20% discount. The link to PPI is right below the link to the course brochure.

### Levee Safety Summit

**Presented By:** The Association of State Floodplain Managers and the National Association of Flood and Stormwater Management Agencies.

**Date:** February 26-27, 2008

**Location:** Adams Mark Hotel St. Louis, Missouri

Key issues that will be addressed include levee certification/decertification, levee operations and maintenance,

vegetation management, flood insurance and mapping issues, and residual flood risk in levee protected areas. Participants will get updates and be able to provide feedback on vital national flood risk management policies currently under consideration at the Federal level, particularly by the U.S. Army Corps of Engineers and the Federal Emergency Management Agency.

Additional information including costs, exhibitor fees, and special classes as well as the summit the brochure and

registration forms can be found at [www.floods.org/leveesafety](http://www.floods.org/leveesafety). Questions can be directed to 608-274-0123 fax 608-274-0696 or [diane@floods.org](mailto:diane@floods.org)

Hotel reservations can be made now by calling the Adam's Mark at 1-800-444-ADAM, be sure to mention "Levee Safety Summit" to get the special rate of \$106 for government employees or \$126 for all others.

## Explosion Effects and Blast Design Training

**Presented By:** Dr. Sam A. Kiger, P.E., Ph.D.

**Location:** Embassy Suites Hotel St. Louis Airport  
St. Louis, Missouri

**Date/Time:** March 3 and 4, 2008, 8:00am to 5:00pm. Check In: 7:30 am March 3.

**Cost:** \$995

Engineers have an opportunity to improve their skills in understanding explosion effects and designing facilities that are safer to occupants by understanding and minimizing the effects of explosive detonations on structures. Architects, first responders, builders and others will also benefit by understanding explosion effects and protective design methods. Most new government buildings now require some level of blast resistant design and many facilities require retrofitting to meet anti terrorism bomb protection criteria; this training will address those requirements. Each participant will receive a certificate indicating 15 Professional Development Hours (PDHs) that can be used to meet continuing education requirements for professional engineers.

The course will focus on the fundamentals of explosion effects, determining blast loads on structures, computing structural response to blast loads, and the design and retrofit of structures to resist blast effects. The emphasis will be on terrorist threats from vehicle bombs, but the fundamental concepts can be applied to other explosive scenarios.

Currently available software and publications for blast effects and design guidance will be demonstrated and discussed. Much of the design guidance is restricted distribution to government agencies and their contractors, however specific information on how qualified users may obtain the software will be provided. Several computer programs for blast effects and blast design have recently been developed by the government for general release and those programs will be discussed along with instructions on how to obtain the software. All of the software and references discussed in this course is available free of charge to qualified users.

Participant will gain an understanding of how to compute explosion effects like overpressure and impulse; blast loading on a structure; how a structure responds to blast loading; and

practical methods for designing and retrofitting structures to resist blast effects.

Participants will be provided a complete set of class notes. Lunch and coffee at breaks will be provided for participants each day.

More information about the instructors, the course, and accommodations can be found at

<http://www.blastdesigntraining.com/>

Secure on-line registration is available. **Registration deadline is February 25, 2008 or until full.**

Questions should be directed to Dr. Sam Kiger at 573-882-3285, KigerS@missouri.edu or Dr. Stan Woodson at 601-636-4429, woodsoneng@netzero.net. For room reservations call 1-800-362-2779 (mention Blast Design Training for a reduced room rate of \$106). The room rate includes breakfast and airport shuttle. A block of rooms will be held for the course until 02/03/2008.

## Member Services — Position Openings

### Licensed Mechanical, Civil or Electrical & Controls/Instrumentation Engineers

Farnsworth Group is currently looking for Mechanical, Civil or Electrical & Controls/Instrumentation engineers to work on oil and gas projects involving pipeline installations, replacements, pigging, and rehab projects, along with pump stations, compressor stations, metering and regulating stations, storage tanks, terminals and other related facilities.

Minimum requirements for positions are: BS in engineering from an ABET accredited curriculum, PE preferred, minimum of 5 years of experience and computer proficiency. Applicants must be experienced in the design of pipelines and pipeline related facilities,

and have the ability to interpret and apply DOT, API, ANSI/ASME and client regulations, codes and standards. Project management and estimating experience are key, along with field experience in troubleshooting and overseeing construction.

Interested candidates please submit your interest to our website at [www.f-w.com](http://www.f-w.com), send an email to [jshriber@f-w.com](mailto:jshriber@f-w.com) or fax resume to 309-689-0035.

### Electrical Engineer

Farnsworth Group is currently looking for an Electrical A/E Design engineer in our St. Louis, MO office and several other offices across the US. Qualified candidates will work mostly with our Architecture group to

perform complete electrical design tasks relative to healthcare, commercial, long-term care, industrial and educational facilities.

Requirements include: Licensed Professional Engineer, 5-7 years of electrical design experience, thorough knowledge of building codes, proficient in AutoCAD, ability to lead small drafting staff and excellent interpersonal, written and verbal communication skills. Other desired skills include: proficiency with SKM Power Tools Software and Visual Lighting Software.

Interested candidates please submit your interest to our website at [www.f-w.com](http://www.f-w.com), send an email to [jshriber@f-w.com](mailto:jshriber@f-w.com) or fax resume to 309-689-0035.

## Member Services — Position Openings

### Structural Engineers and Project Managers

KPFF Consulting Engineers has immediate openings for highly skilled, communicative and motivated structural engineers and project managers. Candidates should have a minimum of four years of experience designing building structures in a variety of building materials, including concrete, steel, light gage, masonry, and wood. Seismic design, PT concrete, and renovation experience a plus. BS (MS a plus) and PE required.

Please e-mail your cover letter and resume to [Resumes@kpff-stl.com](mailto:Resumes@kpff-stl.com) and visit us at [www.kpff.com](http://www.kpff.com).

### Archeological Technicians (Part time)

SCI Engineering, Inc., with offices located in St. Louis, Missouri area, is seeking resumes for Archeological Technicians living in the St. Louis area. Duties may include fieldwork, artifact analysis, and historic background research on multiple Phase II and Phase III projects in Missouri and Illinois. Preferred qualifications include a Bachelor's degree in Anthropology/ Archaeology and at least one archaeological field school. Individuals with field experience in Missouri, Illinois, and Iowa are also preferred. Application deadline is open. Pay is \$14.50 per hour.

E-mail resume and cover letter to: [careers@sciengineering.com](mailto:careers@sciengineering.com) ; FAX to 636-757-2650, or mail to:

Human Resources

SCI Engineering, Inc.  
130 Point West Blvd.  
St. Charles, MO 63301

### Geotechnical Staff Engineer (EIT)

SCI Engineering, Inc. is seeking an entry-level Geotechnical Staff Engineer (EIT) to work in the St. Louis metropolitan area. Requirements include BS/MS degree in Civil Engineering (with geotechnical emphasis) and up to two years experience. Position requires strong written and oral skills as well as geotechnical experience. Duties require familiarity with slope stability, pavement, L-pile and other geotechnical

software. Also, prefer some familiarity with geotechnical-related construction industry.

Excellent benefits package with some travel required. E-mail resume and cover letter to:

[caeers@sciengineering.com](mailto:caeers@sciengineering.com) ; fax to 636-757-1099 or mail to:

Human Resources  
SCI Engineering, Inc.  
650 Pierce Blvd  
O'Fallon, Illinois 62269

### Project Manager—Estimator

Byrne & Jones Construction currently has an immediate full-time opening for a Project Manager—Estimator. A Bachelor's degree and a minimum of 2 years relevant work experience required.

Responsibilities include: completing accurate take-offs and pricing from plans and specs; Contacting potential clients to expand our existing account base, determining project requirements, and developing solid business relationships; Maintaining accurate records for billings; Experience in civil work and/or road work; Reinforce our client's confidence.

Compensation includes base salary and performance bonus as well as outstanding benefits. Please e-mail resume to [kkues@byrneandjones.com](mailto:kkues@byrneandjones.com) or fax to Kathy at 314-567-1828.

### Structural Engineering Project Manager

Larson Engineering of Missouri is seeking a Structural Engineering Project Manager with 5+ years experience in commercial and/or institutional building design. This position will require excellent communication skills and a strong knowledge of the local construction industry. Ideal candidates will have strong organizational skills and the ability to multi-task. PE license required. Direct resumes to: Larson Engineering of Missouri, 5757 Phantom Drive, Suite 200, St. Louis, MO 63042-2455, Phone: (314) 731-4710 Fax: (314) 731-4712, [cebert@larsonengr.com](mailto:cebert@larsonengr.com)

### Geotechnical Engineer

Reitz & Jens has an opening for a geotechnical engineer. The ideal candidate will have a Masters, or be working towards their Masters, in Geotechnical Engineering, and have at least 5 years' experience in the engineering industry. A Professional Engineering license in Missouri and/or Illinois, or the ability to obtain these licenses within the next year is required.

Duties will include conducting geotechnical investigations; writing geotechnical reports; seepage, slope stability and seismic analyses; and general geotechnical consulting at the Assistant Project Engineer, Project Engineer or Project Manager level. Our mix of unique and challenging projects can include infrastructure and utilities, buildings, transit systems, dams and flood control, parks and recreation, and environmental restoration projects throughout the Midwest. Clients include governmental agencies, engineers and architects, utility companies, contractors, institutions, and some private developers. Some overnight travel is required.

Applicants must have a strong technical background with good written and oral communications skills. We are an equal opportunity employer who offers above industry salaries and benefits for qualified individuals. Interested applicants should e-mail their resumes to [humanresources@reitzjens.com](mailto:humanresources@reitzjens.com)

### Project Manager

University City's Public Works Department is seeking a project manager for field and office work. Duties include preparing plans, specs, contracts, reports and related documents; inspecting construction projects; reviewing plats; performing engineering drafting, surveying, research, and evaluation functions.

The position requires the ability to work in a fast-paced environment; excellent customer service, communication, writing, analytical, quantitative, and computer skills. Position requires 2+ years experience working with contractors and utilities; understanding of federal, state and local regulatory requirements is highly desirable; BS in civil engineering

## Member Services — Position Openings

or related field. Starting Salary Range \$39,624 - \$43,488 + benefits. Secure employment application & further details @ [www.ucitymo.org](http://www.ucitymo.org) or at 6801 Delmar, HR dept. EOE/AA.

### Project Managers III

Metro currently has an opening for: Project Managers III Structural Engineer

The growth of our light rail projects ensures career-building challenges to professionals who join our team. We offer an excellent compensation and benefits package including matching 401(k), company paid pension, medical/dental/life insurance, and much more.

Apply online at:

[www.metrostlouis.org](http://www.metrostlouis.org) EOE M/F/D/V

### Civil/Site Engineer

Civil Engineering Design Consultants, Inc. (CEDC) is seeking a full-time Civil Engineer with 5+ years of experience in site development and design. Responsibilities will include site design of projects including schools, churches, hospitals and retail centers, working with clients, and knowledge of PondPack Software. Candidates must be proficient in AutoCAD, have P.E. registration and demonstrate excellent verbal and written communication skills. Salary is commensurate with experience. Interested candidates should email a cover letter and resume to [info@cedc.net](mailto:info@cedc.net) or fax information to the attention of Human Resources at (314) 729-1404.

### Civil/Site Engineers and Designers

Cochran has immediate openings for full-time Civil/Site Engineers and Designers in our Sunset Hills office. Requirements include 3+ years of experience in design of road and/or site development projects, and working knowledge of AutoCAD and Eagle Point or compatible software. Salary commensurate with experience. Interested candidates should email a cover letter and resume to [david@cochraneng.com](mailto:david@cochraneng.com). To learn

more, please visit our website at [www.cochraneng.com](http://www.cochraneng.com).

### Structural Engineer

SSE, Inc., located in Kirkwood, MO, is seeking structural engineers (1-5 yrs. experience) to join our engineering team and work on a wide variety of building projects. Competitive salary & benefits. Please email cover letter and resume to [enr@ssestructural.com](mailto:enr@ssestructural.com) or inquire online at [ssestructural.com](http://ssestructural.com).

### Structural Engineer

Crawford, Murphy & Tilly, Inc. (CMT) is currently offering full-time positions for highly motivated, dedicated individuals to join the CMT Team in our St. Louis, Missouri and Springfield, Illinois offices. Candidates should have between two to six years of structural design experience, preferably in bridge and transportation structures. BS degree required. We offer a competitive salary and a generous benefits package, including medical and life insurance, 401(k) plan, flexible spending plan, educational assistance, paid overtime, profit sharing, computer purchase program, and an excellent work environment.

CMT is an equal opportunity/affirmative action employer. Qualified candidates should send resume to: Crawford, Murphy & Tilly, Inc., Attn: Human Resources, One Memorial Drive, Suite 500, St. Louis, Missouri 63102, Fax: (314) 436-0723

### Chief Structural Engineer

HBE Corporation has an immediate opening for a Chief Structural Engineer to work out of our corporate office. The successful candidate will manage the Structural Engineering Department with strong managerial and technical skills. Candidate must be technically oriented with a PE license and/or an SE in the State of California and other states. Seismic design experience required. **Requirements:** MS Degree in Civil Engineering, 15+ years of Structural Engineering experience with seismic design experience and

capabilities. HBE is an equal opportunity employer.

Apply on line: [www.hbecorp.com](http://www.hbecorp.com)

St. Louis, MO 63141

314-567-9000

Fax: 314-567-0573

[resumes@hbecorp.com](mailto:resumes@hbecorp.com)

[www.hbecorp.com](http://www.hbecorp.com)

### Water Resources Engineer

Fuller, Mossbarger, Scott & May Engineers, has an opening for a water resources engineer in its St. Louis Office. Candidate must have BS/MS in Civil Engineering with 3 to 5 years experience. The ideal candidate will have project experience in wastewater, stormwater, and water projects. EIT certification or ability to become certified is required. Skills in AutoCad, Storm Water and Water/Sewer Modeling, and Microsoft Office are strongly desired. FMSM offers excellent salaries and benefits, including an attractive bonus plan. For immediate consideration, please apply online at [www.FMSM.com](http://www.FMSM.com), or send resume to:

FMSM Engineers

ATTN: Bob Campbell, PE

1856 Bowles Ave., Suite 250

St. Louis, MO 63026

[www.FMSM.com](http://www.FMSM.com)

### Senior Geotechnical Engineer

Fuller, Mossbarger, Scott & May Engineers, has an opening for a senior geotechnical engineer in our St. Louis Office. The ideal candidate will have a Masters, or be working towards his or her Masters, in Geotechnical Engineering, and with 10+ years experience in dam safety, levee design or associated experience. The successful candidate will lead FMSM's levee efforts in the St. Louis office while also working with FMSM experienced levee staff on projects throughout the United States. A Professional Engineering license in Missouri, or the ability to obtain a PE within the first year is required. Interested candidates should possess excellent technical skills and demonstrate ability to communicate effectively with internal staff and outside clients. FMSM offers an outstanding compensation and benefits

## Member Services — Position Openings

package which includes 401(k), profit sharing and paid overtime. Interested candidates should apply on-line at [www.FMSM.com](http://www.FMSM.com), or send resume to: further Information, please contact:

FMSM Engineers  
ATTN: Bob Campbell, PE  
1856 Bowles Ave., Suite 250  
St. Louis, MO 63026  
[www.FMSM.com](http://www.FMSM.com)

### Graduate Fellowships

The University of Missouri-Rolla has Civil Infrastructure Engineering GAANN Graduate Fellowships available in the following research areas: Geotechnical Engineering, Structural Engineering, Hydraulics and Hydrology, Construction Materials, Earthquake Engineering, and Health Monitoring and Systems. Candidates must be U. S. citizens or permanent residents pursuing a Ph.D. interested in teaching and/or research careers in Civil Infrastructure Engineering. For

Dr. A. Belarbi  
belarbi@umr.edu  
573-341-4478

### Structural Engineer

ABS Consulting is currently seeking a Structural Engineer with a minimum of 3 years experience for its St. Louis Office. Interested candidates are asked to visit its website or contact the local office.

77 Westport Plaza, Suite 210 St. Louis, MO 63146  
Tel: 314-819-1550 Fax: 314-889-1551  
[www.absconsulting.com/employment.html](http://www.absconsulting.com/employment.html)

### Structural Project Engineer

AmerenUE has an opening in the Sunset Hills office for a Civil/Structural Engineer in Project Engineering - Power Operations Services. This

candidate will Perform engineering studies, design and project management for existing generation facilities. This position will be responsible for developing engineering solutions, cost & scheduling, budgeting, design, bid packages, construction contracts, construction and commissioning. The candidate will interact and collaborate with other internal engineering groups and outside vendors, contractors, and engineering firms. BSCE required, PE license preferred, three or more years experience in engineering design and project management in the utility industry or similar industry preferred. Must have good analytical, communication and interpersonal skills.

Qualified candidates must apply through our website at [www.ameren.com/jobs](http://www.ameren.com/jobs) Reference Req. # 006573

## ASCE Newsletter via E-mail and Postal Delivery:

ASCE National keeps a central database that holds all ASCE members' individual information. This database is downloaded by the St. Louis Section on the first of every month for Section use. This provides the Section with both mailing and e-mail addresses AS THEY ARE SHOWN ON YOUR NATIONAL RECORDS. Therefore, if you need to update these addresses regarding your receipt of the newsletter, please do so at the National level ([www.asce.org](http://www.asce.org)) so we will be forwarded the updated information.

Email is the most efficient and cost effective means of delivering the newsletter. However, as a service to our members, paper copies will be mailed to any St. Louis Section paid member who prefers postal delivery. If you would prefer a paper copy, please contact Michelle Meier at the address below.

### News Items

Please try to get all announcements for placement in the newsletter to the Newsletter Editor by the 15th of the month prior to publication. Items may be sent (e-mail preferred) to:

Michelle Meier, P.E.  
Metropolitan St. Louis Sewer District  
2350 Market Street  
St. Louis, Missouri 63103  
(314) 768-2794 Fax (314)768-6341  
[mjmeir@stlmsd.com](mailto:mjmeir@stlmsd.com)

Most news items will be available on the Section's Web Page, which can be reached via the link on ASCE National Website ([www.asce.org](http://www.asce.org)). Click on "Geographical and International Units" to link to the Section or go directly to our page at: <http://sections.asce.org/stlouis/index.html>. The Web Page Editor is Jeff Smith e-mail: [JESmith@HNTB.com](mailto:JESmith@HNTB.com) or via feedback directly from our website.