

St. Louis Section Officers & Directors 2007-2008

President

Allen G. Minks
Geopier Foundation Company, Inc.
6 Fremont Court
Florissant, Missouri 63033
Phone: (314) 921-2801
Fax: (314) 921-5197
E-mail: allenminks@geopier.com

President-Elect

Dale M. Smith
Geotechnology, Inc.
850 Vandalia Street, Suite 230
Collinsville, Illinois 62234
Phone: (618) 345-4811
Fax: (618) 345-5108
E-mail: d_smith@geotechnology.com

Vice President

Nielsen R. Palmer
Nielsen Engineering, LLC
7338 Pershing Ave.
St. Louis, Missouri 63130
Phone: (314) 727-6484
E-mail: nielsenengr@sbcglobal.net

Secretary

Adam Spector
St. Louis County Highways & Traffic
121 S. Meramec Ave.
St. Louis, MO 63105
Phone: (314) 615-8594
Fax: (314) 615-8156
E-Mail: aspector@stlouisco.com

Treasurer

Elise Ibendahl
CH2M-Hill
727 N. First St., Ste. 400
St. Louis, Missouri 63102
Phone: (314) 335-3022
Fax: (314) 421-3927
E-mail: eibendahl@ch2m.com

Director (term ends 9/30/2008)

Lisa Fennwald
Horner & Shifrin, Inc.
5200 Oakland Ave.
St. Louis, Missouri 63110
Phone: (314) 531-4321
Fax: (636) 531-6966
Email: lfennwald@hornershifrin.com

Director (term ends 9/30/2009)

Steve Randolph
Horner & Shifrin, Inc.
5200 Oakland Ave.
St. Louis, Missouri 63110
Phone: (314) 531-4321
Fax: (314) 531-6966
E-mail: srandolph@hornershifrin.com

Director (term ends 9/30/2010)

Marc Bacchetti
David Mason & Associates
800 S. Vandeventer
St. Louis, Missouri 63110
Phone: (314) 534-1030
Fax (314) 534-1053

Past President

Gene L. Rovak
Horner & Shifrin, Inc.
5200 Oakland Ave.
St. Louis, Missouri 63110
Phone: (314) 531-4321
Fax: (314) 531-6966
E-mail: grovak@hornershifrin.com



ASCE

ST. LOUIS SECTION



April 2008

Please join us for the April Joint EERI/ASCE Luncheon Meeting

Speaker: Ronald T. Eguchi, EERI's 2008 Distinguished Lecturer

Location: The Engineers' Club of St. Louis, 4359 Lindell Blvd.
Date/Time: Tuesday, April 8, 2008
11:30 Registration / 12:00 Lunch
Cost: \$15 per person, students \$5 Please make checks payable to
"ASCE St. Louis Section"

Reservations: Call Kurt at the Engineers' Club for reservations by noon Friday, April 4th: 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 Friday before the meeting or we will have to charge you for the meal.*
1/2 PDH will be awarded to attendees.

Topic: Earthquakes, Hurricanes and other Disasters: A View from Space

In many instances, disasters act as catalysts in the adoption of new and emerging technologies. Spawned by the need to rapidly collect vital information for disaster management, technology innovations have often helped emergency responders to assess the impact of large disasters more efficiently and rapidly, and to track and monitor progress in critical response and recovery operations. This presentation will focus on the integration of remote sensing technologies in all aspects of disaster management, i.e., disaster preparedness, mitigation, response and recovery. In order to demonstrate their efficacy in these four areas, cases histories and examples from recent disasters, including the Bam, Iran earthquake, the Indian Ocean earthquake and tsunami, Hurricanes Katrina, Rita and Wilma (all occurring in 2005), and the World Trade Center attacks, will be presented.



About the Speaker: Ronald T. Eguchi is president and CEO of ImageCat, Inc., headquartered in Long Beach, California, and is EERI's 2008 Distinguished Lecturer. He has over 30 years of experience in risk analysis and risk management studies. He has authored over 200 publications, many of them dealing with applications of advanced technologies to remote sensing and the seismic risk of utility lifeline systems. Mr. Eguchi has directed major research and application studies in these areas for government agencies and private industry. His work is recognized worldwide for its innovative and exceptionally useful application of advanced technology for infrastructure inventory, damage assessment, emergency response, and disaster recovery.

Welcome New Members

The St. Louis Section would like to welcome our new members who joined us in February 2008: Timothy Heisler, Todd Archer, Rebecca Brazas, Ryan Hodges, Brenton Sanders, Matt Strough, Anthony Perolio, Jessica Huxman, Kermit Christman, Joseph Heger, Bryan Dirks, Rajesh Shrestha, Nichole Stuckey, Sandeep Shrestha, Husein Issahaque, Michael Hennekes, Joshua Garner, Madhurima Duru, Karl Finke, Sarah Johnson, Hussein Al-Shammari



President's Message

By Allen Minks

As discussed in the March Newsletter, Mr. Ken Yost, City Engineer and Director of Public Works for the City of Kirkwood, was tragically killed on February 7, 2008. In his obituary, the family requested that donations be made to Engineers Without Borders (EWB). The St. Louis Section has agreed to make a \$1,000 donation in Mr. Yost's name. Individual contributions can also be made through ASCE by sending your checks to our Treasurer, Ms. Elise Ibendahl. All individual contributions will be acknowledged when the donation is made to EWB.

ASCE recently released the second edition of *Civil Engineering Body of Knowledge for the 21st Century: Preparing the Civil Engineer for the Future*. The report underscores ASCE's active support for higher educational standards for engineers, an initiative launched by our Board of Direction in 1998 with the adoption of Policy 465. Policy 465 (refined in April 2007) states that acquiring the body of knowledge will call for a master's degree or approximately 30 additional graduate-level or upper-level undergraduate credits. For the latter, the courses may be offered by agencies or professional societies. While the first edition listed 15 outcomes, the new report sets forth 24 outcomes to add clarity. The outcomes are grouped into three categories;

foundation, technical, and professional. The National Council of Examiners for Engineering and Surveying (NCEES) previously announced that it would change its model law in 2015 and would recommend that a bachelor's degree plus a master's degree or 30 additional credits be required for licensure. However, under the current regulations this change is not binding as the 56 jurisdictions each establish their own licensing laws. Much more will be forthcoming as these changes begin the implementation process over the next few years. On a personal note, initially, I was not supportive of Policy 465 wherein ASCE was trying to dictate the amount of education required for licensure. However, over the years as I have learned more about this policy, I have become a supporter. My oldest son is an accountant, a field where 150 credit hours are required to become a CPA, and my youngest son is studying architecture, which has a five-year program for licensure. So I've learned that ASCE is not establishing more stringent criteria than other professional fields, we may just be catching up. I am optimistic that the additional educational requirements for registration as a civil engineer will help to raise the bar for our profession and achieve the goals/outcomes set forth by ASCE.

Final arrangements have been made for the 2008 Midwest Levee Conference to be held June 2 through 6, at the Hyatt Regency (formerly Adams Mark Hotel) in downtown St. Louis.

This conference is jointly sponsored by SAME and ASCE. Considerable work has gone into the planning for this conference by both SAME and ASCE, in particular through the efforts of Mr. Steve McCaskie with SAME. I encourage all of our members to attend the conference, and to pass along the registration information to others who may be interested. This conference is a major commitment by both SAME and ASCE, and we look forward to its success. Please contact Steve McCaskie or Gene Rovak should you have any questions. I thank you in advance for your support.

It is that time of year to begin consideration of nominations for our local awards, which are presented at the Annual Dinner in September. Nominations include outstanding project (Outstanding Civil Engineering Achievement Award), outstanding engineer (Professional Recognition Award), and the Young Engineer Award. The deadline for submittals to our Awards Chair, Michelle Meier, is May 31.

As of March 25, ASCE dropped members who have not paid their 2008 dues. Please contact National if you have not yet paid your 2008 dues and are interested in being reinstated.

I look forward to seeing you at our April luncheon.

**Respectfully,
Allen G. Minks, P.E.**

Calendar of Events

- April 3—Regional Envirothon
- April 8—ASCE/EERI Joint Luncheon Meeting
- April 19—Rebuilding St. Louis
- April 21-23—ASLA Central States Conference
- April 29-30—Annual Missouri Concrete Conference
- May 1—SEI Seminar, Special Inspections
- May 2—GeoMO 2008
- May 8-9—Earthday Symposium, UMSL, "Tools for Sustainable Water: Policy & Practice"
- May 9—15th Annual Great Lakes Geotechnical/Geoenvironmental Conference
- May 13—Luncheon Meeting
- June 2-8—Midwest Levee Conference – St. Louis, Flood Risk Management

From Region 7 Governor, D. Vaughan Griffiths

ASCE AWARDS AND HONORS IN REGION 7

Region 7 consists of all ASCE Sections and Branches in Colorado, Iowa, Kansas, Missouri, Nebraska, South Dakota, and Wyoming. Region 7 has eight governors who represent different parts of our region. See region7.asce.org/leadership.html

One of my responsibilities is to promote awards and honors within our region. A first step to achieve this objective is to make sure our members know what is out there, and what they may be eligible for.

Are we getting our fair share of awards and honors in Region 7?

Advancing to the grade of Fellow of the ASCE

If you are a Professional Engineer and have been a Member of ASCE for at least 10 years you may be eligible to apply for advancement to the grade of

Fellow of ASCE.

The rank of Fellow accounts for fewer than 5% of the entire ASCE membership and is the second highest membership grade after Distinguished Member (formerly called Honorary Member).

More information on F ASCE can be found at www.asce.org/membership/fellowfaq.cfm

ASCE Awards

The ASCE presents approximately 100 awards every year in recognition of a very wide range of achievements within our profession.

A complete list of awards, together with the criteria and nomination deadlines can be found at

content.asce.org/handa/dc.html

Please give some thought to individuals or groups within your section or branch who might be worthy nominees. As an aside, don't be shy about suggesting your own name if you think you have accomplishments that fit one of the award criteria. Awards generally don't just happen, and colleagues may occasionally need a gentle reminder to put in the time and effort to prepare a nomination!

Please don't hesitate to contact me if you have any questions about these issues or anything else relating to Region 7 or the role of the Governors.

D.V. Griffiths, PhD, PE, F ASCE
Region 7 Governor
Colorado School of Mines
d.v.griffiths@mines.edu

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 represents 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 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.

The awards will be presented at the St. Louis Section annual dinner in September.

These awards are presented to deserving civil engineering projects and individuals in our community and are a great way to show case civil engineering excellence in our Section.

Deadline for submittal is May 31, 2008

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.

Upcoming Younger Member Event

Rebuilding St. Louis

Rebuilding Together (April 19: 8am to 5pm):

The organization, Rebuilding Together, was started in Texas and has expanded across the nation. In 1992, Rebuilding Together – St. Louis was incorporated and the first Rebuilding Day was held in May of 1993, with five homes receiving improvements. Since that first Rebuilding Day, over 1,200 homes have been improved.

Rebuilding Day is a one day building blitz where improvements are made to dilapidated homes of low-income, disabled and elderly neighbors in the community. Homeowners go through a selection process and are selected based on need and available resources. Rebuilding Day locations are in the St. Louis Community and are distributed in late March/early April. We can help improve our community by giv-

ing one day a year so the Younger Members committee hopes that you will find time to come out on April 19.

More information can be found on the web at: http://www.rebuildingtogether-stl.org/v_vol_info.html or by contacting Bryan Maddocks at: bmaddocks@hntb.com.

Thank You

Thank you to the Tarlton Corporation for their gift to the Mike Alizadeh ASCE Scholarship Fund in memory of Fraydoun "Fred" Adib, who served the Metropolitan St. Louis Sewer District for 37 years.

Volunteers Needed

Regional Envirothon

The Regional Envirothon will be held **April 3, 2008** at the Busch Wildlife Conservation Area in St. Charles County. This all-day event involves environmental-themed competitions between teams of high school students. Topic areas include Wildlife, Soils, Aquatics, Forestry, and a Current Issue, which this year is: Recreational Impacts on Natural Resources. This year, there are 19 teams from 7 local schools.

The Envirothon is a three-tiered event beginning with the Regional competition. The top three teams from this region will

compete in the State Envirothon in the Ozarks on May 1st, and the top teams at State will compete at the Canon Envirothon in Flagstaff, Arizona in July.

Information on the State and/or Canon Envirothons can be found online at the following addresses:

State – <http://www.maswcd.net>

Canon –

<http://www.envirothon.org>

There is no website for the Regional competition, but information can be obtained by contacting the event's sponsor agency: St. Charles County Soil & Water

Conservation District at 636-922-2833, ext. 3.

Volunteers are needed as "team guides", "runners", and possibly as a judge for the oral component of the teams' current issue presentations. At this time we need only about 3 more volunteers, but more are welcome to attend and learn more about this annual competition. Be sure to contact Gene Rovak if you would like to volunteer. His contact information is located on the first page of this newsletter.

Save the Date

ASCE ST. LOUIS SECTION 2008 ANNUAL AWARDS DINNER,
THE EVENING OF FRIDAY, SEPTEMBER 12, 2008
AT THE MORGAN STREET BREWERY, 721 NORTH SECOND STREET

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)!!

Structural Engineering Institute Seminar

Presented by: Structural Engineering Institute of ASCE

Location: Engineers' Club of St. Louis
4359 Lindell Blvd.
St. Louis, Missouri 63108

Date/Time: May 1, 2008, 8:00am to 12:00pm
Registration begins at 7:30am

Cost: Cash or Check at the Door
\$50 for Professionals, \$25 for Stu-

dents. Costs include continental breakfast, coffee and light snacks.

Topic: Special Inspections

Guest Speakers: Darrell McMillian, Jacob Westerman, and Steve Fults

Certificate for 4 pdh's will be awarded to attendees.

To register, please email your reservation to crystal.stone@hok.com (Please

specify that you are attending this particular seminar.)

Further information for this and other upcoming SEI seminars can be obtained at <http://sections.asce.org/stlouis/SEI/Home.htm>

15th Annual Great Lakes Geotechnical/Geoenvironmental Conference

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.



SAME-ASCE MIDWEST LEVEE CONFERENCE

If you attended the ASFPM-NAFSMA Levee Safety Summit in February you learned about levee certification, FEMA requirements, and liability. *Now, get the latest tools necessary to tackle those issues!*

Return to St. Louis in June for the SAME-ASCE Conference to find out about design, methodology, and operational practices that you can put to work – how to get ready for recertification and methods to improve your flood protection system for greater security behind your levees.

Hyatt Regency St. Louis Riverfront (formerly Adam's Mark)
Details will be coming soon...stay tuned and watch your email!
www.midwestleveeconference.com

ASCE Continuing Education Seminars

Information on seminars scheduled in other ASCE Regions can be found under the Region maps on ASCE's website at http://www.asce.org/inside/sec_brnch.cfm. Detailed descriptions of the seminars (by title) are available on ASCE's website at www.asce.org/conted/seminars. If you have questions or need assistance, please contact Kelly Jarvis, Continuing Education Registrar at kjarvis@asce.org, or me at mcook@asce.org.

In their continuing effort to enhance communications between ASCE's Sections, Branches and ASCE National, Geographic Services is pleased to advise our members of the following seminars scheduled in our geographic area from March through September 2008:

April 17-18, 2008
 St. Louis, MO

Comprehensive Site Design Workshop (Construction/Development)

April 17-18, 2008
 Colorado Springs, CO
 HEC-HMS Computer Workshop (Hydraulics)

May 1-2, 2008
 Colorado Springs, CO
 Presentation Skills Training for Civil Engineers (Management and Leadership)

May 15-16, 2008
 St. Louis, MO
 Wind Loads for Buildings & Other Structures- Newly Updated! (Structural)

May 22-23, 2008
 St. Louis, MO
 Treatment Plant Hydraulics for Civil Engineers (Hydraulics)

May 29-30, 2008
 Denver, CO
 Soil Constitutive Modeling For Engi-

neers: Fundamentals, Evaluation and Calibration (Geotechnical)

June 18-20, 2008
 Colorado Springs, CO
 HEC-RAS Computer Workshop (Hydraulics)

July 10-11, 2008
 Denver, CO
 Bridge Rehabilitation (Structural)

July 24-25, 2008
 Denver, CO
 Residential Land Development Strategies (Construction/Development)

September 10-12, 2008
 St. Louis, MO
 Structural Design of Buildings and Industrial Facilities for Blast Loads and Accidental Chemical Explosions (Structural)

September 11-12, 2008
 St. Louis, MO
 Dam Safety and Rehabilitation (Hydraulics & Water Resources)

September 11-12, 2008
 Denver, CO
 Design, Construction, and Renovation of Masonry Structures (Structural)

September 17-19, 2008
 St. Louis, MO
 Structural Vibration Analysis, Design and Troubleshooting (Structural)

September 18-19, 2008
 St. Louis, MO

Low Impact Development Applications for Water Resource Management (Hydraulics & Environmental)

September 18-19, 2008
 Denver, CO
 Soil & Rock Slope Stability (Geotechnical)

September 24-26, 2008
 Denver, CO
 Streambank Stabilization for Restoration and Flood Control (Hydraulics)

September 25-26, 2008
 Denver, CO
 Earthquake Induced Ground Motions (Structural/Geotechnical)

September 25-26, 2008
 Colorado Springs, CO
 Leadership and Development for the Engineer (Management and Leadership)

September 25-26, 2008
 Kansas City, MO
 Steel- Framed Buildings: Practical Issues in Design and Renovation (Structural)

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

Supplemental

ASLA Central States Conference

Hosted By: American Society of Landscape Architects

Date: April 21-23, 2008

Location: Eric P. Newman Education Center, Washington University

The [ASLA Central States Conference](#) is an annual regional conference of landscape architects, students, and associated professionals, bringing together the ASLA chapters of Iowa, Prairie Gateway, St. Louis, Great Plains, and Oklahoma.

Moving Targets: Understanding Our Changing Landscapes

The landscape of the profession of landscape architecture is forever changing, evolving, and growing. This conference will help to prepare professionals and students to navigate these changes

by addressing emerging trends, technologies, and theories of the practice. Some topics could include: green and sustainable technology and project management; environmentally friendly product usage; business and education for design-office employees; how companies can stay ahead of the curve and create new projects; computer technology and production of presentation and construction documents; and the importance of urban and open space environments in the 21st century.

Keynote Speaker:

[Lucinda R. Sanders](#) - Revealing Intersections

[Katrin Scholz-Barth](#) - Green Roof Technology

[Bruce Ferguson](#) - Environmental Mgmt. of Urban Watersheds

[James L. Sipes](#) - Eco-Culture Design and Planning

[Patrick Curran](#) - Urban Wild - Contemporary Infrastructure Solutions
[Marsha Littell](#) - Organizational Communication and Management
[Patrick Caughey](#) - ASLA National Awards Speaker

Additional Conference Events:

Trade Show [Exhibitors and Sponsors](#)

[LARE Review](#) - Two separate sessions, Sun. April 20 and Mon. April 21

Central States [Awards](#) Celebration

"Firm Crawl" Studio Tour – Enjoy libations and an inside look at 4 prominent L.A. studios

To register, go to <http://www.stlouisasla.org/cscregistration.html>

For more information, visit the Conference site: <http://www.stlouisasla.org/csc2008.html>

For more information, visit the Conference site: <http://www.stlouisasla.org/csc2008.html>

Annual Missouri Concrete Conference

Hosted by: Missouri University of Science & Technology

Location: Havener Center, 1346 University Drive, Rolla, Missouri

Date: April 29-30, 2008

Cost: \$120

Presentations at the conference include: maturity implementation panel, new developments in cement, petrographic investigations, roller compacted

concrete case history, concrete recycling, building design mistakes and lessons, special inspections, floor flatness case history, concrete materials basics, ASR-deicer issue, two-lift pavement construction, Missouri concrete overlays, contractor's quality control program, HIPERPAV update, MoDOT technician certification, specification changes, and end-result pilot projects.

The conference should be of interest to contractors, public agencies, consulting engineers, testing labs, aggregate pro-

ducers, ready mix, cement and admixture suppliers, and equipment technical reps.

For registration information contact the Missouri S&T Distance & Continuing Education office at (573) 341-6576 or email dunntm@mst.edu. Additional information is also available online at dce.mst.edu/NonCredit/Conference/. For technical information, contact Dr. David Richardson, (573) 341-4487 or email dnr@mst.edu.

GeoMo 2008 Short Course

Presented by: Missouri University of Science & Technology

Location: Havener Center, 1346 University Drive, Rolla, Missouri

Date/Time: May 2, 2008, 9:00am to 4:30pm

Registration begins at 8:15am

Cost: \$125 includes course notes and luncheon

The theme of GeoMO 2008 has recently become of more interest to the Midwest civil engineering community due to the perceived earthquake risks and new code requirements. The constant seis-

mic reminder for the New Madrid Seismic Zone and new USGS hazard mapping underway in St. Louis make this lecture very timely. The short course will provide answers to questions that frequently arise in new or retrofit engineering projects as it relates to site response. Course participants will gain familiarity with the concepts and related topics for

use in geotechnical and structural engineering. The course includes a full day of lectures, extensive references, notes and pictorial examples of up-to-date methods in site response.

Presentation topics include: Introduction to site effects - case histories, site classification, amplification factors; Ground motions and hazard analyses—basics, boundary effects, transfer function concept; Dynamic soil properties - equivalent linear, nonlinear; 1-D analyses - equivalent linear, nonlinear, comparison; 2-D analyses - equivalent linear, nonlinear, comparison, SFSI; Site response in the future – performance based earthquake engineering

Speakers:

Dr. Steven L. Kramer, P.E., is a professor of civil and environmental engineering at the University of Washington. He specializes in geotechnical earthquake engineering and is author of the textbook, *Geotechnical Earthquake Engineering* (Prentice-Hall., 1996). Professor Kramer has been in-

involved in site response research, has written programs for equivalent linear and nonlinear site response, and consulted on site-response and ground failure projects in the U.S. and abroad. Professor Kramer is the recipient of the Casagrande Award and Huber Prize from ASCE, chaired the 1998 ASCE Specialty Conference on Geotechnical Earthquake Engineering and Soil Dynamics, and is a keynote speaker at the 2008 version of the same conference.

Dr. Pedro Arduino, is a professor of civil and environmental engineering at the University of Washington. He specializes in computational geomechanics with emphasis in constitutive modeling of soils, coupled formulations, contact mechanics, and general finite element solutions for geotechnical problems. He has also been involved in the development of a variety of computer-based instructional tools for geotechnical courses. Professor Arduino is author and co-author of many journal publications and reports and is very active in the professional practice. He has been involved in site-response analysis and

performance-based evaluation of large bridge structures, reinforced walls and wharf structures. His current interests concentrate on the development of a framework for fluid-soil mixtures using distinct phases, and the use of 3-D finite element solutions for the analysis of soil-foundation interaction problems

A certificate for six pdh's will be awarded to participants.

To register, contact
Distance and Continuing Education
300 W. 12th Street, Rolla, MO 65409-1560
Phone: (573) 341-6222
Fax: (573) 341-4992
Email: dce@mst.edu

Or Dr. Ronaldo Luna, Conference Director, Phone: (573) 341-4484
Email: rluna@mst.edu

Or Register On-Line at:
http://mst.edu/NonCredit/Conference/GeoMO_2008.html

2008 St. Louis Geofam Seminar

Co-sponsored by: [ACH Foam Technologies](#), [Advanced Engineering Solutions](#), [Irwin Products of St Louis](#)

Date: May 8, 2008

Time: 8:00 AM – 1:00PM
7:30-8:00 AM Registration – Coffee/
Danish served

Location: Engineers' Club
4359 Lindell Blvd St Louis, MO. 63108

Cost: \$25.00 or \$15.00 for students, includes lunch.

5 PDH units will be awarded to attendees.

Speakers:

Marvin Cook is a Professional Engineer which has spent the last 11 years working in the EPS industry designing and constructing Geofam Projects. Marvin is the Geofam Design Director for Advanced Engineering Solutions Inc. a Geofam design com-

pany. Mr. Cook has been involved with over 200 design fills utilizing EPS throughout North and South America. Prior to working with Advanced Engineering Marvin was a member of the Geofam Task Force for the I-15 Design Team. The I-15 Project is the largest Geofam project in the world.

Steven F Bartlett, Phd., PE Associate Professor University of Utah Steven has published or co-published the following: "Design and Use on the I-15 Reconstruction Project", Instrumentation and Long-Term Monitoring of Geofam Embankments, I-15 Reconstruction Project", Performance of Geofam Embankment at 100 South, I-15 Reconstruction Project", Long-Term Instrumentation Program to Monitor Various Geo-Technologies Used on the I-15 Reconstruction Project", Construction and Post-Construction Settlement Performance of Innovative Embankment Systems", "Numerical Modeling of Geofam Embankments".

Dale Mullikin ACH Foam Technolo-

gies Over 10 years experience marketing EPS Geofam to construction projects

Presentations include:

Welcome & Geofam Basics; Manufacturing Process and Environmental Impact of Geofam;

Geofam Construction, Long-Term Performance & Innovative Uses ;

Brief Background/History on the use of EPS in the Industry today. Technical and Environmental Aspects of Geofam Use. Handling and Placement Guidelines of Geofam. Geofam Case Histories.

RSVP by calling Kurt Krispin at the Engineer's Club by noon on Monday May 5th, 2008.

Kurt can be reached at 1-314-533-9333, by fax at 314-533-9336, or by e-mail at kurt.krispin@engineersclub.net

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 owner-

ship, 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

SIUE CE 592-001 Sustainable Engineering

Location: SIUE Campus
Room: EB 0012

Date/Time: Mon. & Wed. 6-8:50 PM
May 19—July 9

Instructor: J. Zhou, P.E., Ph.D.

A 3-credit graduate course designed to appeal to graduate students in all disciplines. Prerequisite: graduate standing in the University.

This new course introduces the concepts and principles of engineering design for sustainable development, dis-

cusses the challenges facing today's infrastructure, evaluates the impact of engineering design on resource consumption and the environment, and shows how to incorporate environmental, social and economic constraints in engineering design. Example topics include developing criteria for sustainable engineering, designing for sustainable infrastructures, analyzing environmental impacts, extending the life and capacity of infrastructures through innovative technologies and creative management, understanding industrial ecology, and making life-cycle assessments. Students will have the opportunity to apply common principles and

approaches by completing a project in their own discipline.

For further information, contact Dr. Zhou, jzhou@siue.edu

Persons wishing to take this class must first enroll in the SIUE Graduate School (They may enroll as an “unclassified graduate student,” rather than as a civil engineering graduate student, if they like.) An application form is available at <http://www.siue.edu/graduate/apply/index.shtml>

SIUE CE 443-001 Masonry Design

Location: SIUE Campus
Room: EB 1011

Date/Time: Tue. & Thur. 6-8:50 PM
May 27—July 18

Instructor: B. Cross, P.E., S.E., Ph.D.

A 3-credit senior/graduate course designed to appeal to students in structural engineering. Prerequisites: Senior or graduate standing in the University, a course in reinforced concrete design and consent of the instructor.

Design and analysis of masonry structures.

Physical and mechanical properties of masonry. Introduction to masonry design codes. Design of unreinforced and reinforced masonry and brick Structural elements including columns and bending members. Combined compression plus bending, and shear. Fasteners and connections. Lateral load systems. Other miscellaneous topics in masonry design.

For further information, contact Dr. Cross, bcross@siue.edu

Persons wishing to take this class must first enroll in the SIUE Graduate School (They may enroll as an “unclassified graduate student,” rather than as a civil engineering graduate student, if they like.) An application form is available at <http://www.siue.edu/graduate/apply/index.shtml>

MS&T—CE - 337 River Mechanics And Sediment Transport

Location: MSD

Date/Time: Meets Wednesdays 6:00 PM – 8:45 PM, beginning August 27 2008

Instructor: Gary T. Moore, MS, P.E.

This course is intended to provide graduate students an opportunity to study the formation of rivers and the laws governing river regulation and improvements, including navigation and flood protection along with principals of sediment transport. An objective of the course is to understand the geomorphological processes of streams and application of those principals to a real stream in St Louis County. In addition, channel processes and approaches to streambank stabilization techniques will

be discussed and observed. Both hand calculations and computer methods for stream channel processes and hydraulic calculations will be developed. In addition, the course will involve physical data collection in a St Louis County creek for use in the course with an end result of providing a plan for stream stabilization plan for a particular segment of the stream.

On completion of the course, students should be able to understand the aspects of planning and designing streambank stabilization methods and determine the hydraulic and geomorphic processes of a streams as well as erosion control techniques. Students will have a final design project for a stream segment identifying dominant geomorphic processes and stream protection

countermeasures with appropriate open channel hydraulics and present the information in a professional setting. Computer applications may be employed as needed as part of the course work. Other computer or hand computations may be performed for geomorphic determinations or for flow rates.

For further information regarding enrolling in this or any other graduate courses at the MS&T Engineering Education Center at UMSL, visit MS&T's website at www.msteec.edu.

Call (314) 516-5431 or <mailto:msteec@umr.edu> for more information

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 and visit us at www.kpff.com.

work, 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 ; FAX to 636-757-2650, or mail to:

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

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: careers@sciengineering.com ; fax to 636-757-1099 or mail to:

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

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 field-

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

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 engi-

neering 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

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

Structural Engineer

SSE, Inc., located in Kirk-

wood, 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 enqr@ssestructural.com or inquire online at 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
St. Louis, MO 63141
314-567-9000
Fax: 314-567-0573
resumes@hbecorp.com

www.hbecorp.com

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

Quality Auditing Coordinator

Delcan Corporation has immediate openings for Civil Engineers to be Quality Auditing Coordinators for Design-Build projects in St. Louis and Kansas City. The ideal candidate will have project management experience in design or construction engineering with an emphasis on identifying those issues that cause quality problems on Design/Build projects. The Quality Auditing Coordinator will be expected to be able to train design reviewers and construction inspectors in modern quality auditing. The Quality Auditing Coordinator will assist the Missouri Department of Transportation in the oversight of Design/Build to meet the requirements of 23 CFR 637. Regular quality audits will be conducted to verify that project requirements are being achieved. Experience with ISO 9000 Quality Management Standards would be beneficial. Advanced proficiency with the use of relational databases, spreadsheets, statistical analysis, and strong verbal and written communication skills are essential. PE required, Missouri preferred, other States with ability to get license in Missouri by comity will also be considered. Certifications in quality or project management a plus. To apply, send us your resume with a covering letter. Applications can be sent via e-mail or mail to the following:

David Brown, P.E.
Delcan Corporation
4643 S. Ulster Street, 8th floor
Denver, CO 80237
T: 720.228.4051
F: 720.228.4052
Cell: 303.419.4696
d.brown@delcan.com

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) 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

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). 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 or via feedback directly from our website.