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April 2005

Please join the St. Louis Section for our April Luncheon  
**Tuesday, April 12<sup>th</sup>, 2005**

**Topic: Performance-Based Design: Developments and Applications**

**Speaker: Jack P. Moehle - Earthquake Engineering Research Institute's (EERI) Distinguished Lecturer for 2005**

Jack P. Moehle is a Professor of Civil and Environmental Engineering at the University of California, Berkeley and Director of the Pacific Earthquake Engineering Research (PEER) Center. As PEER director, Moehle's research interests and responsibilities include performance-based earthquake engineering. Current research aims to quantify earthquake risk and to express it in ways that are useful to decision makers who must determine courses of action for addressing seismic risk. In this program, research interests include characterization of seismic hazard; geotechnical earthquake engineering, including site response and ground failure; response of soil-foundation-structure-nonstructural systems; identification of engineering damage parameters; and translation of damage parameters to decision variables that are quantified for use in decision making by various stakeholders. Current topical areas include reinforced concrete buildings, reinforced concrete bridges, and transportation and utility lifelines systems.

Mr. Moehle currently is chair of the Seismic Subcommittee of the American Concrete Institute Building Code and a member the Provisions Update Committee for the NEHRP Recommended Provisions. With the Applied Technology Council, he has participated in multiple guideline development projects, including those leading to publication of ATC-32 (*Improved Seismic Design Criteria for California Bridges: Provisional Recommendations*), FEMA-273 (*Guidelines and Commentary for the Seismic Rehabilitation of Buildings*), FEMA-306 (*Evaluation and Repair of Earthquake-Damaged Concrete and Masonry Wall Buildings*), FEMA-356 (*Prestandard and Commentary on the Seismic Rehabilitation of Buildings*), and FEMA-440 (*Evaluation and Improvement of Inelastic Seismic Analysis Procedures*). He currently is chair of the Peer Review Panel for the seismic assessment and upgrading of the Bay Area Rapid Transit system.

Mr. Moehle has been a member of the UC Berkeley faculty since 1980. He received his B.S., M.S., and Ph.D. degrees in civil engineering from the University of Illinois Urbana-Champaign in 1977, 1977, and 1980, respectively. From 1991 to 2001 he was director of the Earthquake Engineering Research Center. In 1997, he was named director of PEER. He has received many awards in recognition of his contributions to engineering teaching and research.

**Location: The Engineers' Club of St. Louis, 4359 Lindell Blvd.**

**Time: 11:30 a.m. Registration & Cash Bar / 12:00 p.m. Lunch**

**Cost: \$15.00 per person / \$5.00 students / checks payable SAME**

Call Kurt at the Engineer's Club for reservations (314-533-9333) or fax at 314-533-9336 or email at [kurt.krispin@engineersclub.net](mailto:kurt.krispin@engineersclub.net) ASCE is now charged for all reserved lunches. If you've signed up and can't make it, please cancel with Kurt by the Thursday before the meeting or we will have to charge you for the meal.

## President's Message

From Robert Neath



Detail Oriented. Motivated. Schedule, Quality and Budget Conscious. Dedicated. Do these seem like adjectives that describe you and your fellow civil engineers? Most likely they

do. And even while many of us are cut from the same cloth, we still end up being quite unique individuals. There are a lot of influencing factors that result in our ability to succeed, many of which we control. But how often do we choose to limit our focus on our own efforts, without recognizing the contributions of others?

This month I have a simple mission for each of you. Seek out your sponsors and supporters and thank them. Reflect upon your careers and current situation, and be appreciative. Undoubtedly you didn't aspire to your current position based solely on your own merits. The time is now to be gracious to those around you.

Take a moment to thank your parents for nurturing and guiding you during your formative years, for they surprisingly have had more influence than you will probably admit. Their legacy lives on in you.

Take a moment to thank your teachers and professors for creating an inquisitive mind that searches for truth and answers. Their instruction creates a lifetime spirit of learning.

Take a moment to thank your employers for providing you with opportunities and challenges. Their contribution is more than the paycheck.

Take a moment to thank your co-workers for the time and effort they spend to make your team successful. Their 'many hands make light work'.

And finally, take a moment to thank your spouse. Their daily supply of unending support allows us civil engineers to build a better world.

Best Regards, *Robert*

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## Seminars

### **Geotechnical Considerations for International Building Code (IBC) Seismic Design in the Metropolitan St. Louis Area**

The New Madrid Chapter of the Earthquake Engineering Research Institute (EERI), in conjunction with other regional engineering and architecture groups, is sponsoring a seminar on **Geotechnical Considerations for International Building Code (IBC) Seismic Design in the Metropolitan St. Louis Area**. The four hour seminar will be held in **St. Louis** on the morning of **May 20, 2005**.

Speakers will present topics related to Site Ground-Motion Assessment, IBC Site Classification, Liquefaction Analysis & Mitigation, Seismic Response Spectra, and Implications for Siting Structures & Building Seismic Design Practice. In addition, a representative from the United States Geological Service will provide a brief overview of the current St. Louis Seismic Hazards Mapping project, and the implications of the mapping project on seismic design in the St. Louis Metropolitan Area.

Four Professional Development Hours (PDH's) will be awarded. For additional information and/or a registration form, please contact Teresa Walker at (314) 994-7007 or email: [TWalker@absconsulting.com](mailto:TWalker@absconsulting.com). The cost of the seminar is \$50.

### **Learn How to Cost-effectively Recycle Roofing Shingles into Asphalt**

Learn how to bring new meaning to the term "roof-top" parking. Peerless Resource Recovery, in conjunction with the St. Louis - Jefferson Solid Waste Management District and the Missouri Department of Natural Resources, is hosting a seminar for architects, engineers, builders, owners and construction companies that use or recommend asphalt as a paving material. "Roofs to Roads" will showcase the benefits of turning tear-off roofing shingles from construction landfills into asphalt hot mix or aggregate base. The seminar begins at 4:00 PM on March 29th and concludes at noon on March 30th. It is being held at the Missouri Botanical Garden's Monsanto Lecture Hall, 4344 Shaw Boulevard, in St. Louis.

One Ohio recycler, Steven Johnson, who owns Roof to Road, LLC, a Columbus, Ohio asphalt recycling business, will be speaking about recycling and marketing tear-off shingles. Carl Wight, Quality Control & Research and Development Manager of Commercial Paving & Recycling Company, LLC will talk about the dynamics of the shingle recycling process.

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## **ASCE Continuing Education Seminars**

April 21-22, 2005, Kansas City, MO  
Residential Land Development Practices (Construction)

April 28-29, 2005, St. Louis, MO  
Highway Bridge Design , Evaluation, & Strengthening  
Using LRFD (Infrastructure Rehabilitation &  
Safety/Structural)

May 12-13, 2005, Kansas City, MO  
Strategic Planning, Valuation & Ownership Transitions for  
Engrg Firms (Management)

July 27-29, 2005, St. Louis, MO  
HEC-RAS Computer Workshop for Unsteady Flow  
Applications (Hydraulics and Water Resources)

These in-depth, practice-oriented programs are produced by ASCE's Continuing Education Department. Detailed descriptions of the seminars by title are available on ASCE's National website at [www.asce.org/conted/seminars](http://www.asce.org/conted/seminars).

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## **St. Louis Section Annual Awards**

Nominations are now being accepted for the 2005 local awards to be distributed at the ASCE 2005 Annual Dinner and Awards Banquet this September. These awards represent an exciting opportunity to recognize service to the profession and the community, please take advantage of them.

The 2005 local awards include:

**Outstanding Civil Engineering Achievement** – presented for an engineering project that demonstrates contribution to the community; resourcefulness in planning; and innovation in design and construction.

**Professional Recognition Award** – presented to an individual with an established reputation for professional service; objective and lasting achievement in improving the conditions under which professional engineers practice; and a significant contribution to civil engineering education and guidance of young civil engineers.

**Young Engineer Award** – presented to a young member who has advanced the profession; exhibited technical competence, high character, and integrity; improved member attitudes towards the profession; and contributed public service outside his or her professional career.

Nominations should include a brief description of the nominee or project, along with contact information and references. To make nominations please contact Michael T. Buechter at [mtbuec@stlmsd.com](mailto:mtbuec@stlmsd.com), or call (314) 768-2772.

Other speakers at the Roofs to Roads seminar include Joe Schroer, field materials engineer with the Missouri Department of Transportation; Dan Krivit, owner of Krivit & Associates, a St. Paul, Minnesota shingle recycling consultant; John Adelman, CEO of Commercial Paving & Recycling Company and a member of the board of Construction Materials Recycling Association; Roger Brown, vice president of Pace Construction Company; and Dale Behnen, co-owner of Peerless Resource Recovery.

The seminar will feature a cocktail and hors d'oeuvres reception on Tuesday evening, March 29<sup>th</sup>. A continental breakfast will be served the following morning. Participants may take a guided tour of a recently built road using recycled tear-off shingles at the Antire Quarry on the afternoon of Wednesday, March 30<sup>th</sup>, following the conclusion of the seminar.

The seminar costs \$60; however, participants who register by March 18 will pay only \$40. To register, call Peerless Resource Recovery at 636-225-7000 or e-mail [gbehnen@aol.com](mailto:gbehnen@aol.com). For more information, visit [www.roofstoroads.com](http://www.roofstoroads.com).

## ***Dewatering Seminar***

Presented by the Geotechnical Sub-Committee of the American Society of Civil Engineers - St. Louis Chapter

Friday, April 8, 2005  
8:00 a.m. – 12:00 p.m. (7:30-8:00 am registration and breakfast)

Seminar Location: Engineer's Club of St. Louis, 4359 Lindell Blvd. St. Louis, MO. 63108.

Contact: Lyle Simonton at (618) 473-9602 for more information.

## ***An Evening Lecture: Re-Construction Efforts in Iraq and Afghanistan***

Presented by the Structural Engineers Association of Kansas and Missouri In Cooperation with the [ASCE](#) Structural Technical Sub-Committee, St. Louis Chapter & the Society of American Military Engineers. With Dr. Charles W. "Chick" Keller – University of Kansas & Col. C. Kevin Williams, USACE, St. Louis District

6:30 P.M. Wednesday, March 30, 2005  
(Registration at 5:30 p.m.) at the Engineer's Club, 4359 Lindell Blvd, St. Louis, MO 63108

Please call Kurt 314-533-9333 to make a reservation or e-mail Rod Riley at [rod.riley@jacobs.com](mailto:rod.riley@jacobs.com) for additional information. \$15 for SEAKM Members/\$20 Non-members/\$5 students

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## Job Openings

**Water/Wastewater Design/Process Engineer** – this person will be a part of our clients Technical Solutions team. As part of the team they will survey and troubleshoot industrial water and wastewater treatment systems and help develop technical solutions through their process understanding. Additionally, there will be design/build opportunities where refurbishing a plant, expanding a facility or building a new facility is the optimal solution. Salary range is \$55 - 75K dependent upon experience.

**Water/Wastewater Systems Cost Estimator** – as design/build projects are developed, this person will estimate the projects in terms of material costs, labor, etc. This person will interface with vendors and sub-contractors to build relationships and help ensure that the most competitive prices are obtained. The estimates will be an integral element of the business proposal for the business development team. Salary range is \$55 – 75K dependent upon experience.

Contact: Skip Freeman, President  
The H.T.W. Group, Executive Search  
Phone: 678-377-9944, x25 Fax: 678-377-9912  
Email: [skip.freeman@hiretowin.com](mailto:skip.freeman@hiretowin.com)

## **Director of Surveying/Technical Services**

Looking for individual with:

- 4-year Civil Engineering Degree
- Management experience within an engineering firm
- A desire to grow the company and department
- The ability to bring all the current talent together and moving in the same direction
- Quality control person
- Able to write/implement procedures
- 10-15 years of experience

The company has grown steadily over the past six years and are looking for an integral member of their senior staff, not just an employee. Employer offers a competitive benefits package, potential for stock ownership and the salary reflects the importance of the position.

Please forward information to:  
Julie Gundlach, Fulcrum Staffing  
Phone: 314-968-2868 Fax: 314-968-2871  
[jgun@fulcrumstaffing.com](mailto:jgun@fulcrumstaffing.com)

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## 2006 Structures Congress

There is still time to submit a session or paper for the 2006 Structures Congress being held in St. Louis! For more information, go to:

<http://www.asce.org/conferences/structures2006>

Interested in helping? Join one of the five Committees that are the driving force behind the Congress!

Program Tasks – John Harris  
Publications Tasks – Niel Palmer  
Exhibits/Sponsorship – Jarek Czernikiewicz  
Social Activities – Marc Bacchetti  
Technical Activities – Matt Westphal

Contact Co-Chairs Brad Cross ([bcross@siue.edu](mailto:bcross@siue.edu)) or John Finke ([John.Finke@jacobs.com](mailto:John.Finke@jacobs.com)). Contact Stephanie Arbogast ([sarbogast@davidmason.com](mailto:sarbogast@davidmason.com)) for additional questions or concerns.

For more information on the 2006 Congress or the local SEI Chapter, go to the local SEI/Seismic Committee website by clicking the link found on the ASCE-St. Louis Chapter website, or by going to <http://sections.asce.org/stlouis/SEI/Home.htm>

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## Joint Society Forum/Question & Answer Session with Board

Co-Sponsors: ASCE, MSPE, The Engineers Club

You are cordially invited to attend this forum for the purpose of discussing with the Division any items of common interest relative to licensure, ethics, enforcement and regulation of engineering in the State of Missouri as set forth in Chapter 327, RSMo. It is anticipated that at least the following topics will be slated for discussion:

General Update : Civil Penalties, Change in meaning of “Responsible Charge”, Required PE for Fire Suppression Design

When: Monday, May 2, 2005  
Where: St. Louis Marriott West, 660 Maryville Center Dr.  
Time: 6:30 am – 7:00 am Registration & Breakfast, 7:00 am – 8:00 am Forum/Q & A (1 PDH Credit)  
Cost: \$15.00 per person includes continental breakfast, pay at the door - No-shows will be billed

Please e-mail your reservation to Len Madalon, ASCE Professional Practice Chair ([len.madalon@ed-inc.com](mailto:len.madalon@ed-inc.com)) or call him @ 314-335-6945 on or before Tuesday, April 26, 2005. Also, e-mail any questions to Len that you would like the Board to address.

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## Newsletter and Roster Distribution Changes

In a transition period lasting through May 2005, email will become the primary method of distributing the St. Louis Section's Newsletter. To assure receipt of your newsletter, verify that your ASCE member profile contains your correct email address. Call ASCE Member Services at 1-800-548-ASCE (2723) or login to ASCE national website [www.asce.org](http://www.asce.org).

Members who wish to continue receiving printed newsletters may request that their copy be sent by mail. Paper newsletters will be sent only upon this request and electronic distribution will be the default. To continue receiving a paper newsletter, please mail a request to:

Chad Janson – ASCE Newsletter Editor  
RJN Group, Inc.  
727 N. First Street, Ste. 240  
St. Louis MO 63102

To change the address where your newsletter is received, be sure to make a change of address at ASCE Member Services.

The St. Louis Section *Membership Register* will also be distributed electronically. In April it will be sent as an attachment to your newsletter, (*another reason to verify that ASCE has your email address*). It will also be available on the ASCE website, from which it may be viewed and downloaded. You will need your member ID to obtain a password for access to the Members section.

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## 2005 ASCE Mid-Continent Conference

The American Society of Civil Engineers (ASCE) Student Chapter is pleased to announce the 2005 ASCE Mid-Continent Conference being held on the Campus of Southern Illinois University Edwardsville (SIUE), March 31-April 2, 2005.

The ASCE Mid-Continent Conference is a series of engineering related competitions and events involving 14 Midwest universities from six states. The competitions allow civil engineering students of all levels to apply their technical knowledge and creativity to an educational and enjoyable scenario in a spirited competitive environment.

**Two notable competitions are the National Student Steel Bridge Competition, and the National Concrete Canoe Competition.** These competitions consist of the design, fabrication, and timed construction of a 1:10 scale steel bridge and designing, constructing, then racing a canoe made entirely of concrete.

If you would like more information please contact Jake Faust by phone or e-mail at (618) 670-8880 or [jacob.faust@gmail.com](mailto:jacob.faust@gmail.com).

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## St. Louis Earth Day 2005

St. Louis Earth Day and more than 90 partnering organizations invite you to participate in Earth Day 2005. YOU can make a difference.

Government representatives, professionals, and community leaders are invited to participate in the 6th Annual Earth Day Symposia, "A Confluence of Interests: Water Resources and Economic Vitality in the St. Louis Region. Programs emphasize cooperative strategies for the protection, use, and promotion of our region's abundant water resources, and examine how these strategies contribute to the economic vitality of the Greater St. Louis Region.

### Thursday, April 21<sup>st</sup>

The St. Louis Earth Day Symposium examines state-of-the-art perspectives on:

- stormwater management
- greenway design
- site design
- sustainable initiatives
- the economics of water resource management.

Networking reception, 4:30 - 6:30 p.m. in Missouri Botanical Garden's Floral Display Hall. Registrants of Thursday's daytime and/or evening events will visit exhibitor booths and enjoy delicious appetizers.

### Thursday evening April 21<sup>st</sup>

Join the American Planning Association for their annual Planning Commissioners Workshop. 6:30 awards ceremony followed by evening workshops.

### Friday, April 22<sup>nd</sup>

The National Great Rivers Research and Education Center examines the benefits of nature-based tourism in river cities and rural areas.

Washington University explores research on mercury in the environment, including water and air systems.

### Friday, May 6<sup>th</sup>

Join the U.S. Army Corps of Engineers and other partners for a post-conference professional networking opportunity on a Mississippi River Barge Trip.

For more information visit:

<http://www.stlouiseearthday.org/index.htm>. You can also email [Info@stlouiseearthday.org](mailto:Info@stlouiseearthday.org), call East West Gateway Council of Governments Planning Department, 314-421-4220

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American Society of Civil Engineers  
St. Louis Section  
The Engineers' Club  
4359 Lindell Blvd.  
St. Louis MO 63108  
**ADDRESS SERVICE REQUESTED**

**Inside:**

- **President's Message**
  - **April Luncheon Notice**
  - **Upcoming Seminar Announcements**
- 

**IMPORTANT DATES**

**April**

- 12 March Luncheon
- 22 Deadline for May newsletter inclusions.

**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 every month or two 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.

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**NEWS ITEMS**

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

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727 North First Street, Suite 240  
St. Louis, MO 63102  
(314) 588-9764 FAX (314) 588-9781  
[cjanson@rjn.com](mailto:cjanson@rjn.com)

Most news items will be available on the Section's **Web Page**, which can be reached via the link on ASCE National Website at <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 Steve Randolph e-mail: [srandolph@hornershifrin.com](mailto:srandolph@hornershifrin.com) or via feedback directly from our website

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