

**President**

Mark Meyer  
Intuition & Logic, Inc.  
3010 Sutton Ave.  
Maplewood, Missouri 63143  
Phone: (314) 647-1161  
FAX: (314) 647-1233  
E-mail: [mark@ilincworld.com](mailto:mark@ilincworld.com)

**President Elect**

Robert J. Neath, Jr.  
CH2M-Hill  
727 N. First St., Ste. 400  
St. Louis, Missouri 63102  
Phone: (314) 421-0313, x 224  
FAX: (314) 421-3927  
E-mail: [rneath@ch2m.com](mailto:rneath@ch2m.com)

**Vice President**

Marsia Geldert-Murphey  
SCI Engineering  
15 Executive Dr., Ste. 4  
Fairview Heights, Illinois 62208  
Phone: (618) 624-6969  
FAX: (618) 624-7099  
E-mail: [mgeldert-murphey@sciengineering.com](mailto:mgeldert-murphey@sciengineering.com)

**Secretary**

Gene L. Rovak  
Homer & Shifrin, Inc.  
5200 Oakland Ave.  
St. Louis, Missouri 63110  
Phone: (314) 531-4321  
FAX: (314) 531-6966  
E-mail: [grovak@homershifrin.com](mailto:grovak@homershifrin.com)

**Treasurer**

Allen G. Minks  
SCI Engineering  
130 Point West Blvd.  
St. Charles, MO 63301  
Phone: (636) 949-8200  
FAX: (636) 949-8269  
E-mail: [aminks@sciengineering.com](mailto:aminks@sciengineering.com)

**Past President**

Marie Collins  
Metropolitan St. Louis Sewer Dist.  
2000 Hampton Ave.  
St. Louis, Missouri 63139  
Phone: (314) 768-6316  
FAX: (314) 768-6302  
E-mail: [macoll@stlmsd.com](mailto:macoll@stlmsd.com)

**Director (term ends 9/30/2004)**

Dale M. Smith  
Geotechnology, Inc.  
850 Vandalia Street, Suite 230  
Collinsville, Illinois 62234  
Phone: (618) 345-4811  
FAX: (618) 345-5108  
E-mail: [dsmith@geotechnology-il.com](mailto:dsmith@geotechnology-il.com)

**Director (term ends 9/30/2005)**

Nielsen R. Palmer  
DOTec  
721 Olive Street, Suite 800  
St. Louis, Missouri 63101  
Phone: (314) 621-9498 ext. 210  
FAX: (314) 621-1872  
E-mail: [nielr@dotecengineering.com](mailto:nielr@dotecengineering.com)

**Director (term ends 9/30/2006)**

Aaron J. Greenberg  
2820 Hereford  
St. Louis, Missouri 63139  
Phone: (314) 664-5498  
E-mail: [agreenberg1@mindspring.com](mailto:agreenberg1@mindspring.com)

February 2004

## Engineer's Week Joint Society Luncheon

Participating Organizations include:  
ASCE, ASME, IEEE, MSPE, SWE, SAME, ISPE  
ASHRAE, NSBE, APWA, and The Engineers' Club

### Monday, February 23, 2004

## The World Came to St. Louis - A Visit to the 1904 World's Fair

A Presentation by Sue Birk Oertli

In 1904, St. Louisans united in a common cause and pulled off one of the most spectacular events of its time.

Join us for a locally renowned slide and lecture presentation given by Sue Oertli, based on the program and book of the same title created by her mother, Dorothy Daniels Birk. Sue Oertli presents an interesting story of the St. Louis World's Fair, from its conception and planning, through its construction, opening and operation, to closing night ceremonies on December 1, 1904. See what St. Louis was, and is, capable of doing when its citizens work together. The program features modern reproductions of original glass slides taken at the fair by Mrs. Oertli's grandfather, Edward Daniels. This lively and entertaining presentation vividly documents the excitement and diversity of the 1904 World's Fair.

Introduction by Chuck Oertli, Chairman of Guarantee Electric Company, founded in 1902 to perform electrical work for the fair.

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

**Time:** 11:15 a.m. Registration & Cash Bar  
11:45 a.m. Lunch

**Cost:** \$18.00 per person

For reservations contact Kurt Krispin at the Engineers' Club of St. Louis by Thursday, February 19, 2004. (Due to anticipated turnout, reservations made and not cancelled prior to February 19, 2004 will be invoiced).

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)

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.  
Issues will be sent only to members current with local section dues.

## President's Message From Mark Meyer



Well, it's February already which means Engineers Week! Every year our engineering community plans several events for this month to celebrate our great profession. I encourage everyone to get involved and help get the word out about all the wonderful contributions we make to our society every day.

Recall last month's message about ASCE's recommended Body of Knowledge for engineering licensure in the 21<sup>st</sup> Century. We discussed "what" should be taught and learned in January, so this month let's focus on the "how" and "who":

### How Should the Body of Knowledge be Taught and Learned?

The teaching/learning modes are:

- Undergraduate study typically leading to a BSCE;
- Graduate study or equivalent;
- Co-curricular and extra-curricular activities; and
- Post-BS engineering experience prior to licensure.

The Committee concluded that the BSCE will be the means of initiating the teaching and learning of all outcomes. Both upper level undergraduate and graduate level education, or its equivalent, and structured post BS experience are essential to achieving the BOK. While structured post BS experience is essential, experience interspersed within formal education is valuable. The student's formal education can be significantly enhanced by participation in extra curricular activities. The committee concludes that distance learning, especially the web-based category, will increasingly provide an effective means for developing the knowledge, skills, and attitudes included in the BOK.

### Who should teach and learn?

The following four characteristics of the model civil engineering faculty member became evident to the BOK Committee:

- **Scholars:** Those who teach the civil engineering BOK should be Scholars. They should maintain a level of expertise in the subjects that they are teaching and be life long learners.
- **Effective Teachers:** Student learning is optimal when faculty members effectively engage students in the learning process.

- **Faculty with Practical Experience:** the *who* for the civil engineering BOK includes educators who have practical experience in engineering subjects that they teach.
- **Positive Role Models:** The ideal civil engineering faculty member should present a positive role model for our profession.

I would encourage everyone to visit the ASCE website at [www.asce.org/raisethebar](http://www.asce.org/raisethebar) to learn more about this important topic. Have a great Engineer's Week!

---

## Section Issues a Resolution Supporting Proposition Y

The American Society of Civil Engineers (ASCE)-St. Louis Section issued a resolution pledging its support to Proposition Y and encouraging all voters on February 3<sup>rd</sup> to vote "yes" on Y.

The full text of the resolution follows:

WHEREAS the Metropolitan St. Louis Sewer District (MSD) must address an estimated \$3.7 billion in identified wastewater-related capital improvement needs in order to comply with the Clean Water Act, and

WHEREAS MSD has placed Proposition Y on the February 3, 2004 ballot, asking the voters of the District to authorize MSD to issue \$500 million in bonds for the express purpose of financing the first phase of a Capital Improvement and Replacement Program (CIRP) to address these needs, and

WHEREAS a "no" vote will result in a projected average monthly residential bill increase of \$20, and a "yes" vote will result in an average monthly residential bill increase of \$6, therefore a "yes" vote will hold down rates for customers of the District as the CIRP is implemented, and

WHEREAS the CIRP is vital to the environmental health and regulatory compliance of the greater metropolitan St. Louis area, and for the economic and personal well being of present and future citizens of the City of St. Louis and of St. Louis County, and

WHEREAS the St. Louis Section of the American Society of Civil Engineers' *St. Louis Metropolitan Region Environmental Infrastructure Report Card* issued a rating of C- for the region's water/stormwater management due, in part, to "severe funding shortfall",

NOW THEREFORE BE IT RESOLVED that the St. Louis Section of the American Society of Civil Engineers pledges its support to Proposition Y and encourages all voters on February 3<sup>rd</sup> to vote "yes" on Y.

---

## Explosion Effects and Structural Design for

## Blast

### A 2-day Training Course

At the Embassy Suites Hotel St. Louis Airport  
March 8-9, 2004

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 and builders will also benefit by appreciating the impact of explosive design decisions early in the process. All new government buildings now require some level of blast resistant design and this training will specifically address those requirements.

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. The participant will gain an understanding of how to compute blast loads 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 with a complete set of class notes.

More information about the instructors, the course, and accommodations can be found at <http://blastdesigntraining.com>. Professional engineers will get continuing education credit of 16 PDH's for the course. On-line registration is available and will ensure your seat is reserved. Questions regarding content and appropriateness can be obtained by contacting Dr. Sam Kiger at 573-882-3285, [KigerS@missouri.edu](mailto:KigerS@missouri.edu) or Stan Woodson at 601-636-4429, [WoodsonEng@direcway.com](mailto:WoodsonEng@direcway.com)

## Missouri PE Preparation Course

The courses for preparation of the Professional Engineering Licensing examination will be held at Saint Charles Community College, Saint Peters, MO. The classes will be scheduled on six Saturdays in the months of February and March 2004 on following dates:

February 14, 21, 28, March 6, 20 and 27, 2004 (There will be no class on March 13th). The deadline for registration will be February 6th, 2004.

The courses are offered in three engineering disciplines, which include Civil Engineering, Electrical Engineering and Mechanical Engineering.

The courses are co-sponsored by Missouri Society of Professional Engineers, American Society of Civil Engineers and Society of American Military Engineers.

The course fee will be \$365.00 for members of MSPE, ASCE and SAME; and \$465.00 for non-members. Subject to change without notice.

For more information about the courses call Mir H. Ali at (314) 209-5958 or contact at e-mail address [mhali@mactec.com](mailto:mhali@mactec.com) For registration information call Saint Charles Community College at (636) 922-8233.

---

## ASCE Board Moves Ahead on New Governance Model

*by Blaine Leonard, Chair, Governance Restructuring Implementation Committee*

At the November Board meeting, the ASCE Board of Direction passed, by the required two-thirds vote, a proposed amendment to the ASCE Constitution which would modify the way the Society is governed and better position ASCE to lead the profession into the future. The amendment will go to the members of ASCE this June for a ratifying vote.

The proposed restructuring focuses on three things: 1) a smaller Board of Direction, 2) alternate paths to service on the Board, and 3) the creation of Regional Boards to bring more of the Society's governance closer to the members. These changes are being proposed after more than four years of study by the Board, and after considerable discussion with the Society's leaders at all levels. A new committee has been constituted, the Governance Restructuring Implementation Committee, whose charge is to communicate the details of the proposed change to the members and to complete the detailed development and implementation of the proposed structure.

The Society's current Board of Direction is made up of 28 members, including 20 Directors who are elected from the 15 Districts, an International Director, four Vice Presidents, and three Presidential Officers. The proposed Board would consist of 17 members, including 9 Directors from the domestic geographic Regions, an International Director, two Directors representing the technical Institutes, two At-Large Directors, and three Presidential Officers. This smaller Board will be able to work more efficiently and more quickly, and will be more conducive to policy discussions. The addition of technical and at-large representation on the Board will give the Board a broader perspective and a better base from which to make policy decisions. The At-Large Directors will be Society members representing some of our diverse activities, and could include younger members, corporate executives, prominent educators, or others who may not have opportunities for service through the usual geographic channels.

Nine Regional Boards will be established in the United States under this proposal. These Boards will be comprised of five or more Regional Governors and will be led by the national Director representing the Region. These Boards will allow for more service opportunities for ASCE members, and will provide leadership and support

to the local Sections and Branches. Regional Boards will take on some of the duties and functions currently conducted at the national level and will increase the opportunities for communication at the local level.

The financial savings which will result from reducing the size of the Board will be used to fund the Regional Boards. The governance proposal is, therefore, essentially a cost neutral issue.

If the Constitutional Amendment is approved by the membership, elections for the newly created Board positions would be held beginning in 2005, and full transition to the new governance model would take four to six years.

While most of the detail of the proposed restructuring has been defined, some of the details, including how the Regional Governors are elected, operational differences to meet the needs of different Regions, and the geographical boundaries of the Regions, are still being considered. The Implementation Committee welcomes insights and comments about these, and other, issues. You can e-mail your input to [governance@asce.org](mailto:governance@asce.org) or go to [www.asce.org/governance](http://www.asce.org/governance) to review the detailed information and provide comments directly from that screen.

Check out future issues of *ASCE News* for more details on the proposed restructuring.

---

### Section Receives SPA Grant

The St. Louis Section of ASCE has been awarded a State Public Affairs grant to fund the following activities:

- Funding for civil engineering commercials on television: \$1000.00

Within a few weeks the Section will receive the award along with a detailed letter on the Committee's actions, as well as any conditions for the award. The submission of a final report summarizing how the grant was spent and how the project advanced the Section's government or public relations goals is required. The final report must be submitted by Friday, September 3, 2004, regardless of whether the project has been completed. Sections that fail to submit a final report will be ineligible for SPAG funds for two years.

I would like to personally thank all of the Life Members who contributed to the scholarship fund. Aaron Greenberg contacted nearly all of the 150 Life Members registered in the St. Louis Section, and the response has been very encouraging. To date, almost 50 members have responded with a total of over \$1,500. I want to especially thank Mrs. Emily Smith who contributed to the fund after the death of her husband, Mr. Robert (Bob) Smith on October 7. I would also like to recognize those who contributed in excess of \$20: Brucker Construction Testing Services, BSI Constructors, Harold Clinton, Ltd., Bob Crawley, John McDaniel, John DeMonte, Steven Hanna, D.W. Ryckman, Gerry Schwartz, and Subsurface Constructors.

Through this fund, we have been able to provide annual scholarships to the three universities within the St. Louis Section boundary limits. These include Washington University, Southern Illinois University at Edwardsville, and Southern Illinois University at Carbondale. The University of Missouri-Rolla, the University of Missouri-Columbia, and the University of Illinois are all beyond the St. Louis Section limits as assigned by ASCE National.

Thanks again to the Life Members and all others who have contributed to the scholarship fund. We look forward to your continued support.

*Allen Minks, Treasurer*

---

### Congratulations to Our New ASCE Life Members...

Gene H. Bell  
Mariano C. Bello  
Donald A. Berg  
Morris Berk III  
Jerry W. Church  
John A. Dreher  
William L. Durbin  
David Hough  
Dennis R. Pullar  
Frank C. Janson  
Bernard A. Rains  
James B. Williams

To obtain Life Member status with ASCE a member must...

- ...be at least 65 years young
- ...have paid dues for a number of years so that when added to their age the sum equals 95
- ...have paid dues for at least 20 years.

---

### Life Members Scholarship Contributions

---

## St. Louis Infrastructure Report Cards

Based on the highly successful ASCE National Report Cards, the St. Louis Section is proud to present the first two reports in a series on the St. Louis Metropolitan Area Civil Engineering Infrastructure.

You can view the Environmental Infrastructure Report Card by opening the file [Environmental Infrastructure Final Report.pdf](http://sections.asce.org/stlouis/Environmental%20Infrastructure%20Final%20Report.pdf) at:  
[http://sections.asce.org/stlouis/Environmental Infrastructure Final Report.pdf](http://sections.asce.org/stlouis/Environmental%20Infrastructure%20Final%20Report.pdf)

You can view the Dams and Levees Report Card by opening the file [Dams and Levees.pdf](http://sections.asce.org/stlouis/Dams%20and%20Levees.pdf) at:  
[http://sections.asce.org/stlouis/Dams and Levees.pdf](http://sections.asce.org/stlouis/Dams%20and%20Levees.pdf)

More reports will be added as they become available.

Link to ASCE National Report Card:  
<http://www.asce.org/reportcard>

---

## Missouri Concrete Conference

The 2004 Missouri Concrete Conference will be held on Wednesday and Thursday, April 7-8, 2004 at the University of Missouri-Rolla. Presentations at the conference include:

Floor slab moisture problems, tilt-up, steel-free bridge decks, recycling concrete, optimizing mixtures, ready mix operations, available certification programs, experience with the maturity method, joint-forming with the bobsled, variable width pavers, slab surface texturing, thin overlays, changes in cement, cylinders-cores-size, lightweight profilometers, mix expectations, curing, MoDOT's new QC/QA program and MoDOT's new bridge deck mix.

The conference should be of interest to contractors, public agencies, consulting engineers, testing labs, aggregate producers, ready mix, cement and admixture suppliers, and equipment technical reps.

For conference registration contact Distance and Continuing Education, 103 ME Annex, University of Missouri-Rolla, Rolla, MO 65409-1560, phone (573-341-4200) : or email [macet@umr.edu](mailto:macet@umr.edu) .

## GEOMo 2004 - Missouri Geotechnical Conference

The Department of Civil, Architectural, and Environmental Engineering at UMR has announced that GeoMO 2004, a one-day annual geotechnical engineering workshop, will be held on May 21, 2004. This year's conference will focus on Reliability-Based Foundation Design and will feature Fred Kulhawy of Cornell University. This topic will be particularly timely for those engineers who attend the ASCE, St. Louis Section Geotechnical Program on February 27-28, when Fred will be presenting a seminar on the Estimation of Soil and Rock Properties for Foundation Design. Details of the conference and registration information are at <http://campus.umn.edu/civil/geommo>.

---

## Mentors Needed for West Point-ASCE Bridge Competition

If you are interested in helping students in local schools with their entries in the 2004 West Point-ASCE Internet Bridge Contest, please contact the school of your choice or Aaron Greenberg at 314-664-5498 or [agreenberg1@mindspring.com](mailto:agreenberg1@mindspring.com) .

---

## Mentors Needed for the ACE Program

A new program called "ACE" has been instituted in the St. Louis area. ACE is a unique partnership among industry professionals – architects, interior designers, engineers, construction management companies, leading schools and universities, professional organizations and related professionals – who work together to attract young people to their professions. Industry professionals volunteer to become mentors to high school students in order to introduce them to the ACE professions (Architecture, Construction, Engineering) and encourage them to pursue studies and careers in these fields. If you are interested in becoming a mentor in the future, please contact Aaron Greenberg at 314-664-5498 or [agreenberg1@mindspring.com](mailto:agreenberg1@mindspring.com) or Terry Eivins (AGC) at 314-664-1525 ext. 222 or [teivins@stl-cts.org](mailto:teivins@stl-cts.org). For further information go to the website [www.acementor.com](http://www.acementor.com) .

---

American Society of Civil Engineers  
St. Louis Section  
The Engineers' Club  
4359 Lindell Blvd.

**ADDRESS SERVICE REQUESTED**

***Inside:***

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

---

**IMPORTANT DATES**

<b>February</b>	
16	March Newsletter Article Submittals Deadline
23	February Joint Luncheon

**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.

---

**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.

ASCE Newsletter Editor  
Chad Janson c/o EDM, Inc.  
220 Mansion House Center  
St. Louis, MO 63102-1902  
(314) 335-6942 FAX (314) 231-8167  
[chad.janson@edm-inc.com](mailto:chad.janson@edm-inc.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@hornersshifrin.com](mailto:srandolph@hornersshifrin.com) or via feedback directly from our website

---