



Official Newsletter

for the
Pittsburgh Chapter



Association for
Bridge Construction & Design

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April's Dinner Meeting

James L. Withiam, Ph.D.

D'Apollonia

Speaking on

GROWING PAINS:

AASHTO LRFD FOR SUBSTRUCTURE DESIGN

Please RSVP By Friday, April 2, 2004

Keep your schedule open:

2004 Annual Awards Program

May 20, 2004

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James L. Withiam, Ph.D.

D'Apollonia

Speaking on

GROWING PAINS: AASHTO LRFD FOR SUBSTRUCTURE DESIGN

Load factor design (LFD) codes have been used in the US since the 1970's, and in the highway industry since 1977, but their application was limited to the design of superstructure components. Introduction of the AASHTO LRFD Bridge Design Specifications (*LRFD Specifications*) in 1994 represented the first instance in the US where load and resistance factor design (LRFD) was codified for the geotechnical design of foundations and walls. While a few state DOTs proactively pursued implementation of the *LRFD Specifications*, the process has been slow. This has been due in part to problems that can be attributed to changes in the *LRFD Specifications* that resulted in noticeable differences with past design practice. The presentation will discuss some of the problems that have been encountered and the measures taken to correct the *LRFD Specifications* to gain the confidence of highway owners and designers and hopefully speed their implementation across the country

- Date: **Thursday, April 8, 2004**
- Time: Social at **5:00 PM**; Dinner at **6:00 PM**; Program at **7:00 PM**
- Place: Four Points Sheraton Pittsburgh North
910 Sheraton Drive, Mars, PA
- Cost: \$25.00 for Members of ABCD
\$30.00 for Non-members of ABCD
ABCD Student Members – no charge
\$20.00 for Student Non-Members
- Contact: Sjaan Korvink at (412) 395-8888
- RSVP: By Friday, April 2, 2004



Association for Bridge Construction and Design

ABCD Annual Awards Program

The ABCD Annual Awards Program will be held on Thursday evening, May 20, 2004 at the Four Points Sheraton Pittsburgh North. Join us as we salute this year's winning projects and people. Each winner will make a short presentation and answer questions about their project. A photograph and plaque will be presented to the owner, designer and contractor associated with each project.



Technical Society Fair

The 1st Ever (Annual) Technical Society Fair was held at the Engineering Society of Western Pennsylvania's Building, Wednesday March 3, 2004. ABCD and eighteen other technical societies were represented. ABCD displayed awards from the past years and pieces of the Golden Gate and Wheeling Suspension bridges.

Over a hundred people participated and enjoyed three different presentations. Bernard J. Fedak, Managing Director Engineering, U.S. Steel Corporation gave an interesting history of the start of US Steel and a current National and Global status of the of the steel giant. Roger G. Byford, Chief Technology Officer, Volcollect, spoke on the 17 year history of his Pittsburgh company. Clients, such as Walmart and Giant Eagle utilize Volcollect's voice activated inventory system to keep our favorite products on the shelves. Colonel Raymond K. Scrocco, Pittsburgh District Engineer, U. S. Army Corps of Engineers (USACE) told us of the new dams that are being constructed on the Mon River. The USACE is using new technology to construct the dams off site and then float them into position. Once in position, the dams are sunk and attached to piles.

If you wish to have a list of the Technical Societies present at the March 3, 2004 Technical Society Fair, please contact Tom Ryan at ryan@abcdpittsburgh.org.

HAVE YOU REGISTERED FOR THE 2004 IBC YET?



JUNE 14, 15 & 16, 2004

HILTON PITTSBURGH
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Sponsored by: Engineers' Society of Western Pennsylvania

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- Network with over 1,100 attendees from over 44 States and 12 Countries.
- Internationally recognized Awards Program.
- Over 100 Exhibitors showcasing the latest in services, supplies and technology.
- Tour active bridge projects.
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FOR INFORMATION CONTACT:
International Bridge Conference
c/o Engineers' Society of Western Pa
337 Fourth Avenue
Pittsburgh, PA 15222
Phone (412) 261-0710
Fax (412) 261-1606
email: r.gregg@eswp.com

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| President-Elect | Aaron Stover | (412) 269-7937 |
| Secretary | Jane-Ann Patton | (412) 856-9220 |
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| Membership | John Weres | (412) 392-8793 |
| Program | Sjaan Korvink | (412) 395-8888 |
| Public Relations | Laura Volle | (412) 269-6438 |
| Technical | Manjeet Ahluwalia | (412) 373-7133 |
| Web Site | Geoffrey Goldberg | (412) 392-8765 |
| Awards | Joseph McKool | (412) 269-6362 |

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Legal Counsel

Victoria Lynn DeFrank – Attorney at Law
(412) 281-7955

Sustaining Members

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- * Bridge Technologies
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P. O. Box 23264
Pittsburgh, PA 15222