

2005 Structures Congress & Exposition Metropolis & Beyond

Over 1,100 attendees participated in the 2005 Structures Congress & Exposition in New York this year, where the sights and sounds of New York City were enjoyed by all. With participation from international organizations, generous sponsors, and a good exposition, the Congress was a major success. On the pre-Congress day there were two seminars on "Bridge Scour and the Structural Engineer," and "ASCE 7 New Seismic Provisions," in addition to a Special Session by the Technical Council on Forensic Engineering on "NIST's World Trade Center Investigation: Why the Towers Fell and Recommendations for the Design Profession."



Shayam Sunder and Gene Corley speaking on the WTC Investigation

Plenary and Business Meeting

In opening the Plenary Session, SEI President, Jeremy Isenberg, shared the sad news of the passing away of Jim Delahay of LBYD in Birmingham, AL several days prior to the Congress. He will be remembered as a dynamic member of the profession and an active member on the ASCE 7 committee.

In their welcoming remarks, the 2005 Structures Congress planning committee co-chairs, Andy Herrmann and Ed DePaola, noted the exceptional program that was in store for the next several days and recognized Steering Committee members Robert Ratay, Vice Chair, and Jean Marie



Andy Herrmann, Ed DePaola, Jean Marie Sokalsky and Bob Ratay

Sokalsky, Secretary, for their contributions to planning this year's Congress. Herrmann recognized and thanked the international co-sponsors, IStructE, and IABSE, and the many sponsors this year. He then introduced ASCE President-elect Dennis Martenson, P.E., D.E.E., who gave a greeting from ASCE.

The Keynote speaker, Larry Silverstein, head of Silverstein Properties Inc., presented insights into the world of real estate development in Manhattan. In July 2001, Silverstein completed the largest real estate transaction in New York history by acquiring the 10 million-sq.-ft. World Trade Center, only to see it destroyed by terrorist attacks six weeks later on September 11.



Larry Silverstein describes future plans for the World Trade Center site

Silverstein is enthusiastically committed to redevelopment of the World Trade Center site, and illustrated in captivating detail the immense planning and effort he and his partners from firms around the world have put into design work on the new buildings, park area, monument and Freedom Tower, the 1,776 foot-tall building that will serve as the new soaring icon of the World Trade Center site buildings. The on-going development will provide the city of New York with a boost to their economy and an average of 10,000 jobs each year for the next 10 or more years.

During SEI's Annual Business Meeting, Jeremy Isenberg reviewed SEI's impressive progress over the past year. He described SEI's commitment to separate licensing for structural engineers, support of the SEI endowment fund, involvement with the Risk Management Program and its implications on the profession, and to improvement of future Structures Congresses.

SEI Director, James Rossberg, concluded the business session by outlining SEI's current scope of activity, financial and

membership strength and future plans of its four divisions. He explained that, this year, a new system was put in place to enable participants to print their own PDH certificates on-line after the Congress.

SEI Awards Luncheon

The keynote speaker was Nadine Post, Senior Journalist of *Engineering News-Record*, who gave anecdotes about "On the Record: An Insider's Tips on Media Relations."

The 2005 Awards:

The **Dennis L. Tewksbury Award - Ronald F. Nelson, S.E.** Mr. Nelson has been a champion for the inclusion of tracks/sessions on Practical Design, Detailing and Business Issues at the Structures Congresses; took a leadership role as Chair of the Public Relations Committee from 1998 to 2004; serves currently as Chair of the Business and Professional Activities Division and as a member of the Board of Governors.

The **Walter P. Moore Jr. Award - H. S. Lew, Ph.D., P.E.**, for his technical excellence in investigations of causes of building failures due to natural and man-made disasters, which have led to significant improvements in structural standards and professional practice. Dr. Lew is one of the few individuals who, along with Dr. Walter P. Moore, has held membership on both the AISC Specification Committee and ACI Committee 318 on design of reinforced concrete buildings, and has played a key role in harmonizing design requirements for these two major engineered construction materials.

The **Gene Wilhoite Innovations in Transmission Line Engineering Award - Dan E. Jackman, P.E.** for his involvement in every facet of transmission line engineering over the course of his career, which has spanned more than forty years. Before his retirement from OPPD in 2000, Mr. Jackman served in numerous managerial roles, providing strong leadership and innovative insight.

The **George Winter Award - Ashraf Habibullah, S.E.** (accepted by his son in his absence) for his leadership in the development of highly complex software for structural analysis and design, with thousands of engineering firms and researchers using the software in design of buildings, bridges and other structures in more than 150 countries. In 1997 he founded the

Engineering Alliance for the Arts.

The **Raymond C. Reese Research Prize - Professor Ian W. Burgess PhD., P.E., Professor Roger J. Plank, PhD., P.E., and Professor Zhaohui Huang, PhD., P.E.**, for the paper "Modeling Membrane Action of Concrete Slabs in Composite Buildings in Fire I: Theoretical Development" and "Modeling Membrane Action of Concrete Slabs in Composite Buildings in Fire II: Validations," *Journal of Structural Engineering*, August 2003.

The **Moisseiff Award - Bahram M. Shahrooz, PhD, P.E., Gokhan Tunc, P.E., and Jeremy T. Deason, P.E.**, for the papers "Outrigger Beam-Wall Connections I: Component Testing and Development of Design Model" and "Outrigger Beam-Wall Connections II: Subassembly Testing and Further Modeling Enhancements," *Journal of Structural Engineering*, February 2004.

The **Nathan M. Newmark Medal - Dan M. Frangopol PhD, P.E** for his

outstanding contributions to structural engineering and engineering mechanics, particularly the modeling and optimization of lifetime system performance of deteriorating materials and structures in the civil infrastructure.

ASCE State-of-the Art of Civil Engineering Award, for a state-of-the-art paper of exceptional merit, was presented to **Scott A. Burns PhD., P.E.** on behalf of the SEI Technical Committee on Optimal Structural Design for the report, "*Recent Advances in Optimal Structural Design.*" Special thanks go to the Technical Committee members: Dr. Jasbir S. Arora, Prof. Richard J. Balling, Dr. Franklin Y. Cheng, Prof. Allen C. Estes, Dr. Christopher M. Foley, Dr. Dan M. Frangopol, Prof. Donald E. Grierson, Dr. Siavash Khajehpour, Prof. Makoto Ohsaki, Prof. Shahram Pezeshk, Prof. Colby C. Swan and Dr. Lei Xu.

Shorridge Hardesty Award - Yuhshi Fukumoto, PhD., F.ASCE, for a distinguished career in structural engineering that includes highly advanced structural stability research work, focusing on the behavior of straight and curved steel beams and columns of various cross sections.

Best Presentation Award

This is the fourth year in a row that the Business and Professional Activities Division has administered an award for the best presentation at the Structures Congress. Attendees who voted for their favorite presentations were then placed in a drawing for a free copy of ASCE/SEI 7-05. **R.Shankar Nair** won the honor for his "Best" presentation, "Stability Analysis Provisions of the 2005 AISC Specifications for Steel Buildings." James Jordan was the drawing winner. ■

Awards information and deadlines for nominations for the 2005-2006 Awards Program can be found on the SEI web site at: www.seinstitute.org.

2005 Awards Presented by SEI President Jeremy Isenberg



Nadine Post: Luncheon Speaker



Rawen Nelson: Tewksbury Award



Roger J. Plank, Shaohui Huang: Raymond C. Reese Award



State of the Art Award



Dan Jackman: Wilhoite Award



H.S. Lew: Walter P. Moore Jr. Award



Dan Frangopol: Newmark Medal



Yuhshi Fukumoto: Shorridge Hardesty Award

To see more photos, go to the SEI web site: www.seinstitute.org



Upcoming Structures Congresses

2006 – St. Louis, Mo.
May 18-21, 2006

www.asce.org/conferences/structures2006

2007 – Long Beach, CA
May 16-20, 2007



New Horizons & Better Practices!

