



The Construction Zone

The official newsletter of the Construction Institute

Congressman Istook to Highlight Atlantic Coast Construction this May

Congressman Ernest J. Istook Jr. (R-OK, 5th District) provides one of many highlights scheduled for *Atlantic Coast Construction*, the Construction Institute's 2-day, 2-track event at the Sheraton Premiere in Tyson's Corner, VA. Scheduled for May 12-13, 2004, the conference includes presentations on "Mega Projects" along the Atlantic Coast, an Executive Forum presented by leading insurance and surety executives, two local site tours, the Roebing Lecture by Lester M. Hunkele III, winner of the 2003 Roebing Award, and the OPAL Awards Dinner.



Congressman Istook will provide the keynote address on Thursday, May 13, where he is expected to speak on two issues near and dear to civil engineers and the construction industry – transportation funding and infrastructure security. The congressman is a member of the House Appropriations Committee, currently serving on three subcommittees, Labor, Health & Human Services and Education; District of Columbia – which he chaired from 1999 to 2000; and Transportation & Treasury – which he has chaired since 2001. The Transportation & Treasury Appropriations

Subcommittee provides oversight and funding for the Treasury, including the Internal Revenue Service, the White House and other key government agencies, and the nation's transportation system. This past year, Congressman Istook was appointed to the Select Committee on Homeland Security, where he serves on the Infrastructure and Border Security subcommittee.

ASCE President Patricia D. Galloway will provide the keynote address on Wednesday, May 12. This past August, Ms. Galloway **Continued on page 4 (Istook)**

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CONSTRUCTION

Washington, D.C.
May 12 - 13, 2004



The CI-OSHA Alliance: What does it Mean to You?

The Nov/Dec 2003 issue of *The Construction Zone* reported on an alliance that the Construction Institute (CI) formed with the Occupational Safety & Health Administration (OSHA) on November 3, 2003. The agreement, signed by ASCE Executive Director Patrick J. Natale, CI President Robert E. Alger, and Assistant Secretary of Labor John Henshaw, is a part of OSHA's ongoing Alliance Program. The program establishes broadly written, cooperative agreements with trade organizations and private companies wherein the parties agree to leverage resources for training & education, outreach & communication, and promoting the value of safety & health. Currently, there are nine (9) construction-related alliances and more than 100 alliances within other industries.

Why an Alliance with OSHA

The CI-OSHA alliance was initiated by members of CI's Site Safety Committee. The committee believes that engineering and construction professionals must take an active role regarding the safety of their employees and, to a lesser extent, the safety of other workers. Managers who ignore safety issues will face higher insurance premiums, OSHA penalties, civil suits, the loss of good employees, and the loss of previously loyal clients. The alliance will mobilize resources within both organizations to raise the awareness of safety issues and raise the public stature of the construction industry and the civil engineering profession. It will allow CI/ASCE members to utilize OSHA's vast resources and shape future safety regulations.

Traditionally, civil engineers have not been active in managing site safety issues because of the conventional separation between design and construction. Civil engineers rarely receive safety training and standard contracts explicitly exclude design professionals (engineers/architects) from site safety responsibilities. Yet civil engineers are spending more time on job sites as representatives of the owner or as part of a design-build or construction management team. Their design decisions affect construction safety, which is why academics and practitioners are calling for designers to consider site safety issues during the planning and design stages of a project. Civil engineers focus on and affect public safety more than any other engineering discipline; therefore, CI-ASCE should be, and is, the first engineering society to enter into an alliance with OSHA.

What the Alliance Says

The Alliance emphasizes two focus areas, crane safety and constructability, and establishes specific goals in two related areas, raising awareness of safety issues and developing safety management tools. Specific means for raising awareness include:

- Speaking about safety issues at CI/ASCE conferences and publishing articles in CI/ASCE publications;
- Performing case studies of safety management programs within CI/ASCE firms;
- Developing and disseminating (in print or via Web sites) safety & health information for CI/ASCE members; and
- Encouraging CI/ASCE members to participate in OSHA's cooperative programs.

Although the alliance does not identify specific safety management tools, examples developed for other industries include written guidance on developing comprehensive safety programs, model safety plans for specific types of firms, training materials, and templates/checklists/electronic tools for hazard analysis and audits. Effective safety management tools exist for contractors, but few, if any, exist for design firms and/or consulting firms that provide on-site engineering services. The CI-OSHA alliance will seek to fill this need within the industry.

Get Involved

The Site Safety Committee is leading the implementation effort with the assistance of the Crane Safety Committee and the Constructability Committee, but additional volunteers are needed. Even if you are not a safety expert, you may serve on the implementation team, working to achieve the goals of the alliance through quarterly conference calls or meetings and frequent email communication. You may serve on the corresponding advisory committee, monitoring email communication between the implementation team and participating when appropriate. If you are a member of another committee within CI, you may encourage your committee to assist the implementation team. All manners of assistance are needed and welcome!

To volunteer your services or to communicate your suggestions, contact Mike Toole at 570-577-3820 or ttoole@bucknell.edu.

*T. Michael Toole is an Assistant Professor in the Civil & Environmental Engineering Department at Bucknell University.
He is also Vice Chair & Secretary of the Site Safety Committee.*

Past President Receives Moles Award



John F. Donohoe, Past President of the Construction Institute, recently received the 2004 Moles Award for Outstanding Achievement in Construction. The Moles is an association of individuals engaged in heavy construction. John was honored with The Moles member award at the group's annual awards dinner on Wednesday evening, January 28, 2004 at the Hilton New York.

John serves as CEO of Moretrench American Corporation (MTA), a contracting company headquartered in Rockaway, NJ specializing in groundwater control, environmental services, and geotechnical services. During the course of his 40-year career with MTA, he has been personally involved with hundreds of groundwater control projects and geotechnical projects. John is an active member of The Moles, having served as President, the Associated General Contractors of America, having served as a National Director, and a significant contributor to the early success of the Construction Institute.

Please join us in congratulating John on being recognized for his outstanding contributions to the construction industry!

Constructability Catalog Goes Online

CI's Constructability Committee (CC), working with the U.S. Army Corps of Engineers, Construction Engineering Research Laboratory in Champaign, IL, recently established an online constructability reference catalog. The catalog, available online at www.cecer.army.mil/pl/catalog/index.html, is a compilation of journal papers, articles, and reports that focus on constructability concepts and practices. It is intended to serve as a resource for individuals interested in constructability and includes a point of contact to obtain additional information about each listing. The catalog is a dynamic work-in-progress and CC welcomes additions to the online listings.

The Constructability Committee, chaired by John Gambatese of Oregon State University, works to integrate construction knowledge and experience into the planning, design, procurement, and construction phases of civil engineering projects. If you would like to be considered for membership in this committee, contact the CI office at 703-295-6390 or ci@asce.org.

CI Merchandise Available!



To purchase a CI T-shirt, polo shirt, lapel pin, or pen and pencil set, visit the CI Web site at www.ConstructionInst.org to download an order form. Every purchase includes a free hard-hat decal of the CI logo.

Submit a photo of you or a colleague wearing CI gear on the job and receive a free CI lapel pin if your photo is published. Photos may be submitted to the CI office at ci@asce.org.

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Update on the Second Tacoma Narrows Bridge

Most individuals within the engineering/construction industry have seen the famous footage from November 7, 1940 of “Galloping Gertie” collapsing into Puget Sound, a mere four months after construction. Lessons learned from this historic failure revolutionized bridge engineering, as we know it today. Given the engineering significance of the site, Tacoma Narrows Constructors, a joint venture between Bechtel Corporation and Kiewit Pacific, is proud to have been selected to construct a 5,400-foot suspension bridge to parallel the existing 5,979-foot bridge that opened on October 14, 1950. Once completed, the new structure will be the fifth longest suspension span in the United States and the largest suspension bridge built within the U.S. in more than forty years.



The design-build project is a new concept for the client, the Washington State Department of Transportation (WSDOT). Thanks to WSDOT's positive approach, in just over a year's time, design is substantially complete, major portions of the approach roadway are in place, and the bridge's caissons have been anchored in the aggressive tidal currents of the Narrows passage. Each caisson is held in place by two rings of anchors that move on slider beams as 10-foot lifts of concrete are placed. The project recently celebrated a milestone with touch-down of the west caisson in 130 feet of seawater. The second caisson, in 150 feet of seawater, is expected to touchdown within the month. Both caissons protrude an additional 60 feet into the seabed. Construction of the caissons, which consist of more than 30K cubic yards of concrete and 3K tons of rebar each, has been equated to building a 20-story skyscraper upside down while floating in the water. The caissons will be sealed with a 25-foot layer of concrete called a “distribution cap” and work will begin on the 510-foot towers, made of micro silica concrete, which will support the suspension system.



Land crews are simultaneously working on the conventional gravity anchorages, which consist of more than 23K cubic yards of concrete each and contain frames that will anchor the bridge suspension system. By this time next year, the towers will be complete and crews will focus on cable spinning followed by deck erection.

The completed bridge will consist of three 12-foot lanes with two 10-foot shoulders and a 10-foot pedestrian/bike path. The structure will also accommodate a second deck or light rail system as may be needed in the future. The existing bridge will undergo seismic improvements, lane reconfiguration, and approach work, allowing eastbound traffic to travel on the existing bridge and westbound traffic to travel on the new bridge. The \$849 million, 5-year project will be completed and opened to traffic sometime in 2007. For additional information on the Tacoma Narrows Bridge, visit www.tacomannarrowsbridge.com.

(Istook) Continued from page 1



became the first woman elected to serve as ASCE President. She is a former chair of the ASCE international committee and served on the ASCE Board of Direction as its international director from 1992 to 1995. She has chaired ASCE committees on membership and women in civil engineering and has served on a variety of committees including strategic planning, communications, technical activities, and construction & management. President Galloway is President & CEO of The Nielsen-Wurster Group, Inc., an international management-consulting firm with offices throughout the United States, Europe, and Asia-Pacific.

Atlantic Coast Construction promises to be a premier event for the construction industry, so be certain to attend! Registration prior to March 1, 2004 is \$285 for ASCE/CI members and \$335 for non-members. After March 1, registration rates increase by \$50 each. An optional site tour of the Dulles Airport Expansion Project is available for \$50 prior to the March 1 early-bird deadline and \$60 after March 1. An optional self-guided tour of the National Air and Space Museum's Udvar-Hazy Center is available for \$25 prior to the early-bird deadline and \$35 afterwards. Students registering prior to March 1 receive a free site tour with their \$75 registration fee. Registration forms will be accepted by fax or mail if postmarked by May 1, after which on-site registration may be available for an additional \$50 fee, if space allows. Sleeping rooms are available at the Sheraton Premiere at a reduced rate of \$169 (single/double), if reserved by April 19th. Call 703-448-1234 and ask for the “CIVIL” rate.

For additional information, visit the CI web site at www.ConstructionInst.org or contact the CI office at 703-295-6390 or ci@asce.org.

ATLANTIC COAST CONSTRUCTION

Sheraton Premiere • 8661 Leesburg Pike • Vienna, VA 22182
May 12-13, 2004

30 Presentations

Local Site Tours

Networking Opportunities

Executive Forum

OPAL Awards Dinner

Presentations on Large-Scale Projects:

- Dulles Development D₂ Program
- Woodrow Wilson Bridge
- WMATA Blue Line Extension to Largo
- Replacement of the Cooper River Bridges
- FDR Drive, New York City
- Charlotte I-85 Design-Build
- I-95/I-395/I-495 Interchange, VA

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Please contact Debbie Kates at
703-295-6313 or dkates@asce.org.

Executive Forum Speakers:

- Peter Kutil, King & King
- Christian Burger, Burger Consulting
- Paul Healy, Willis Group
- Bill Marino, Allied NA
- Bill Waters, CNA Surety
- Lee Smither, FMI Corporation
- Michael Loulakis, Wickwire Gavin
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Keynote Addresses by:

Congressman Ernest J. Istook, Jr.
R - Oklahoma
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Patricia D. Galloway
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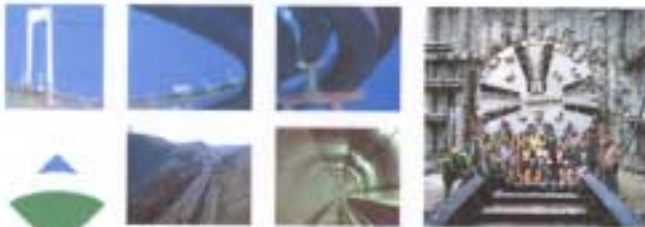
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Lane Acquires Rea Construction

The Lane Construction Corporation, one of the nation's leading heavy and highway civil contractors, recently announced that it acquired the assets of Rea Construction Company, a former subsidiary of J.A. Jones Construction Company. Under the terms of the acquisition, a new entity, Rea Contracting, LLC, will be a subsidiary of Lane Carolinas Corporation, a wholly owned subsidiary of The Lane Construction Corporation.

Rea Contracting, LLC is a multi-disciplined heavy/highway contractor and asphalt producer headquartered in Charlotte, NC. With a history that dates to 1937, Rea Contracting is the leading highway, paving, and bridge contracting company in the Southeast. They have the experience, personnel, and technology that will continue to satisfy a broad range of private and public customers from three locations – Charlotte, NC; Raleigh, NC; and Columbia, SC.

Commenting on the acquisition, Lane's President Robert E. Alger said, "Lane is pleased to acquire Rea Construction Company, a company with a strong legacy and commitment to excellence. This acquisition will expand our presence and bolster Lane's market position within this growing region of the country." Alger continued, "Together, the expertise offered by Lane, with more than 100 years of heavy civil experience, and Rea, with operations throughout the Carolinas, will be a powerful combination for our clients and partners." For additional information on Lane Construction Corporation, visit their Web site at www.laneconstruct.com.

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Summit to Address Construction Opportunities in China



Do opportunities for foreign companies exist within China's \$441 billion construction market? How are foreign companies perceived? What are the common issues, challenges, and best practices for succeeding in the Chinese market? Who are the major players? What makes for a successful partnership with a Chinese A/E/C firm? How can your firm participate in the \$26.4 billion construction program for the 2008 Beijing Olympics? If you need to know the answers to these and other similar questions, you should attend **2004 Global Construction Summit** in Beijing, April 14-16, 2004.

Co-organized by McGraw-Hill Construction and the China International Contractors Association, the summit aims to explore opportunities and challenges within China and provide a forum for senior executives from leading firms in China and around the world to exchange perspectives and best practices. In today's dynamic global construction industry, China – the world's third largest construction market and one that grows at 8-9% per year – is attracting more and more attention from industry leaders. While the market potential is enormous, the challenges are equally large and the risks cannot be ignored.

The 2-day summit includes five general sessions, six breakout sessions in three tracks (A/E, O/C, and building product/equipment manufacture), and private networking opportunities. It has received endorsement from the Ministry of Commerce and the Ministry of Construction of P.R.C. and enormous support from leading industry associations worldwide, including the Construction Institute. Contractors, engineers, developers, owners, manufacturers, architects, and academics are expected to attend.

For additional information, visit the conference Web site at www.construction.com/event/beijingsummit/index.asp.

CI Day Attracts Overflow Crowd

The Construction Institute recently hosted CI Day at the Opryland Resort & Convention Center in Nashville, TN. An overflow crowd of more than 120 attendees heard presentations on several high-profile construction projects and shared information on construction safety and research. The day began with the presentation of the Peurifoy Construction Research Award to Professor Jimmie Hinze of the University of Florida. The morning continued with sessions on the T-Rex multi-modal transportation project in Denver – a \$1.67 billion project that includes light rail and highway improvements, and the US 82 Bridge Project in Greenville – soon to be the longest cable-stayed bridge on the Mississippi River. The morning concluded with the CEO Forum, where Lt. Gen. (ret.) Hank Hatch moderated a lively discussion on critical issues facing the construction industry with Gerard Kenny, CEO of Kenny Construction Company; Robert Prieto, Chairman of Parsons Brinckerhoff; Doug Pruitt, Chairman & CEO of Sundt Construction, Inc.; and Kenneth Stinson, Chairman & CEO of Peter Kiewit Sons', Inc.

CI Day continued with afternoon sessions on the Marmet Lock & Dam Project in West Virginia – a \$222 million project expected to take more than six years to complete, renovation of the Georgia State Capitol in Atlanta – a return to the grandeur of 1889, and effective practices to achieve zero injuries on construction projects. In addition to the presentations, attendees enjoyed a continental breakfast and plated lunch, and received a binder of presentation material. Extra copies of the program binder are available for purchase at \$15 each (S&H included). Contact the CI office at 703-295-6390 or ci@asce.org to purchase a copy.

CI thanks our Nashville speakers:

T-Rex Project - Denver, CO
Jerry C. Porter
Peter Kiewit Sons' Inc.

US 82 Bridge - Greenville, MS
Keith Jacobson
Massman Construction Co.

Marmet Lock and Dam, West Virginia
George E. Mason
Kokosing/Fru-Con LLC

Georgia State Capitol Renovation
Ed Siqueria
The Winter Group Companies
Tony Aeck
Lord Aeck & Sargent Architects

Construction Site Safety
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Spotlight on our Corporate Members



Master Builders, Inc. An Unmatched Combination of Products, Equipment, and Expertise

Founded in 1909, Master Builders, Inc. is an innovator in developing, manufacturing, and marketing chemical and mineral admixtures for specialty concretes. The company offers the widest range of concrete admixtures, materials, and accessories available from a single source. Their products are commonly used to improve the placing, pumping, finishing, and appearance characteristics of concrete. In addition, Master Builders' admixtures ensure high strength and durability, inhibit corrosion of steel embedded in concrete, reduce permeability, improve resistance to chemical attack, allow effective placement of concrete in extreme weather conditions, and enable concrete to be placed underwater. New liquid color conditioning admixtures, developed specifically for ready-mix and precast production, ensure enduring, structurally sound architectural concrete in a variety of colors.

Master Builders takes a "total systems approach" in serving their clients,



analyzing every need from safety concerns and environmental practices to operational efficiencies and cost control. Their goal is to help the client identify efficient complete solutions for the construction project. Often times, their solution includes product recommendations, as well as equipment recommendations, to satisfy project deadlines in a safe cost-effective manner. No matter what the challenge, the total systems approach provides comprehensive solutions that are right for any project.

Mining – Demands for safety and improved environmental practices, coupled with the need to control costs, create a huge challenge for mine management. Regardless of mine location or minerals being extracted, Master Builders provides innovative systems and solutions to meet project demands using backfilling, anchoring, membrane, sprayed concrete, grouting, abrasion, and protection technologies.

Civil – Infrastructure projects such as underground transportation systems, below-grade parking, and highway/railway tunneling all benefit from Master Builders' products. For projects large and small, Master Builders provides the latest, most advanced technology for

sprayed concrete, tunnel boring applications (ground treatment, tunnel support, & equipment), anchoring, injection, and waterproofing in underground construction environments.



Master Builders, Inc. is located in Cleveland, Ohio and operates as part of Degussa Construction Chemicals, the largest manufacturer of construction chemicals in the world. The parent company, Degussa AG, is headquartered in Dusseldorf, Germany. If your project involves concrete, Master Builders can satisfy your every need.

For additional information, visit the Master Builders Web site at www.MasterBuilders.com.



Calendar of Events

CI Regional Conferences

**Atlantic Coast Construction
Washington, DC
May 12-13, 2004**

EJCDC Meetings

**Denver, CO
June 11-12, 2004**

CI Regional Seminars

**Mega Projects- West Coast III
San Francisco, CA
August 20, 2004**

**CI Day/ASCE Conference
Baltimore, MD
October 22, 2004**

Board of Directors Meetings

**Washington, DC
May 14, 2004**

**San Francisco, CA
August 21, 2004**

**Baltimore, MD
October 22, 2004**

CI Endorsed Conferences

**Management and Leadership
in Construction Conference
March 25-26, 2004
Hilton Head, South Carolina**



CI's Construction Research Council is sponsoring a specialty conference on Management and Leadership in Construction. The conference addresses current research and future needs of the construction community. Industry participation is highly encouraged. Specialty conference technical papers, case studies, and practice papers will be presented. For more information, visit the conference website at <http://www.academiceventplanners.com/hiltonhead>.



**PMICOS Conference
Montreal, Quebec
April 25-28, 2004**

CI is a co-sponsor for the Project Management Institute – College of Scheduling (PMICOS) 1st Annual

Scheduling Conference. Join industry experts and view presentations on a variety of scheduling topics including research, project profiles, risk management, and global service. For more information, visit the “Events” tab at www.pmicos.org.

**Innovative Materials & Technologies for Construction & Research
Leece, Italy
June 6-9, 2004**

CI is a co-sponsor for the First International Conference on “Innovative Materials & Technologies for Construction Research” (IMTCR04). The aim of the conference is to promote and exchange information on innovation in materials & technologies in construction and restoration in the field of civil engineering. For more information, visit www.imtcr04.unile.it.



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CI Membership

The Construction Institute offers several levels of membership for individual and corporate members.

Student Member - \$25 annually
Associate Member - \$50 annually
Member - \$100 annually
Master Builder - \$200 initiation fee
ASCE Member with CI as 1st Institute - free
ASCE Member with CI as 2nd Institute - \$20 annually
Associate Corporate Member - \$750 annually
Corporate Member - \$2000 annually

The CI membership year runs from January 1st to December 31st. For more information on CI membership and an explanation of the membership levels, please contact CI at 703-295-6390 or via email at ci@asce.org. You can also visit our Web site at www.ConstructionInst.org.

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