



The Construction Zone

The official newsletter of the Construction Institute

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CI joins the U.S. Green Building Council CSECC to lead CI's Involvement

The Construction Institute (CI) recently joined the U.S. Green Building Council (USGBC) – a nonprofit, national coalition of industry organizations that work to promote a new generation of buildings that are environmentally responsible, profitable, and healthy places to live and work. CI's efforts in working with USGBC will be lead by the Committee on Social and Environmental Concerns in Construction (CSECC) under the guidance of Robert F. Borg, Chairman of Kreisler Borg Florman, a New York-based construction company. "We are extremely pleased to be a part of USGBC," noted Mr. Borg. "CSECC members have strong backgrounds in many of the strategies implemented by USGBC and we hope to be valuable contributors to the Council." Of particular interest to CSECC members is the LEED (Leadership in Energy and Environmental Design) Green Building Rating System™ – a voluntary third party system where new construction and major renovation projects are evaluated within six categories: sustainable sites, water efficiency, energy & atmosphere, materials & resources, indoor environmental quality, and innovation in design. Certified, Silver, Gold, and Platinum levels of green building certification are awarded based on the total credits earned. The LEED system has been adopted nationwide by federal agencies, state and local governments, and private companies as the industry measurement for green building. CSECC members hope to participate on one or more of the LEED committees or the technical advisor groups to the LEED committees.

If you would like to be considered for membership in CSECC, please contact the CI office at 703-295-6390 or ci@asce.org.

MARK YOUR CALENDAR!

Mega Projects of the West Coast III
August 20-21, 2004
San Francisco, CA

See page 5 for more information!



Milestones in Construction

La Tour Eiffel

La Tour Eiffel, or the Eiffel Tower, is one of the most recognizable structures in the world. Built along the Left Bank (southern bank) of the Seine River in 1889 for the International Exhibition of Paris, the tower defines the Paris skyline and symbolizes a century of engineering, industry, and science.



The Eiffel Tower was designed and constructed by Alexandre Gustave Eiffel (1832-1923), a renowned French engineer, who specialized in revolutionary structural iron construction. Some of Eiffel's earlier works include Douro Bridge in Portugal, Garabit Viaduct in France, and the inner framework of the Statue of Liberty, which continues to grace New York Harbor. After reviewing more than 700 submissions – including a massive guillotine, the City of Paris selected Eiffel's proposal to construct a wrought iron structure that would serve as the main attraction for the 1889 World's Fair, commemorating the centennial of the French Revolution. Upon completion, the 300-meter tower became the world's largest structure surpassing the Washington Monument by more than 130 meters. It remained the world's tallest structure for forty years until it was surpassed by the Chrysler Building in New York City.

An expert in metallurgy, Eiffel determined that wrought iron was the only affordable material that could provide the strength, flexibility, and durability needed to construct the massive tower. After numerous revisions, Eiffel's final design specified a 7000-ton tower with a “bar stool” base – the four legs aligned to the points of the compass. The south and east support piers were constructed using a dry foundation system, while the north and west piers, along the Seine, were constructed using a compressed air/caisson system due to poor soils. The tower utilized a series of lattice-trussed piers with incurving edges to mitigate the effects of wind. Eiffel's design showed his engineering genius as the tower has never swayed more than 10-12 centimeters.

It took five months to complete the foundation and 21 months to assemble the wrought iron components of the tower. Each piece was formed in a factory to an accuracy of one tenth of a millimeter, transported to the site via horse-drawn wagon, and lifted into place using a steam-powered crane. More than 2.5 million rivets connect the pieces. Because of the precision in his planning, Eiffel was able to set new standards for accuracy in design and speed in construction with only a modest workforce of 50 engineers, 100 ironworkers, and 120 laborers.



As hard as it may be to imagine, the tower was nearly demolished in 1909, as Parisians and city planners with a misguided desire to gentrify the city, considered the tower “industrial” and obsolete. Fortunately for millions of future tourists, the tower was ultimately saved because of its exceptional suitability for scientific research and its newfound use as a communications tower for radio and television broadcasts. Today, the tower attracts more than 5.5 million visitors each year – a fitting testament to this marvel of civil engineering and construction.

For additional information on the Eiffel Tower, visit ASCE's History and Heritage Web site at www.asce.org/history.

CI Merchandise Available!



To purchase a CI T-shirt, polo shirt, lapel pin, or pen & 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.



CI Members asked to Support the ASCE Governance Proposal

After more than four years of study and discussion, the ASCE Board of Direction recently voted to recommend a constitutional amendment to alter the governance structure of the Society. If approved, the amendment will reduce the national Board of Direction from 28 members to 17 members and create ten geographic regions in lieu of existing zones and districts. Each of the newly-created regions will have a regional Board of Governors chaired by a national director who will represent the region on the ASCE Board of Direction. Many of the current responsibilities of the district councils and zonal vice presidents will be transferred to the regional Boards in an effort to enhance national/local communication and involve more ASCE members and Institute members in the decision-making process. Other benefits of the governance proposal include:

- Voting positions on the Board for two Institute-elected Directors, providing direct representation for the Institutes as well as the opportunity for Institutes to nominate candidates for President-elect;
- Voting positions on the Board for two at-large Directors, providing an additional path to national leadership for ASCE/Institute members who do not have a geographic base of support due to their professional pursuits and frequent moves, but have a technical base of support due to their Institute membership or involvement in other technical focus areas within ASCE;
- Increased ASCE/Institute member opportunities for leadership through the newly-created Regional Boards; and
- Enhanced communication and greater opportunities for collaboration between Institutes and geographic regions, as more decisions will be made at the local level.

In seeking a structure that is representative of ASCE/Institute membership, the amendment advocates ten geographic directors, two at-large directors, two Institute directors, and three presidential officers. The amendment must be ratified by two-thirds of the ASCE members voting in the June 2004 national election. If approved by the members, elections for the newly-created Board positions will be held starting in 2005 with full transition to the new governance model requiring four to six years.

The governance proposal provides an opportunity for technical areas within ASCE, including the Institutes, to obtain direct representation on the ASCE Board of Direction. For this reason, Institute members are encouraged to support the constitutional amendment with a "YES" vote. Ballots will be distributed with the June issue of *ASCENews* and will be available to print from the ASCE Web site in late May. Completed ballots must be returned via postal service prior to August 13, 2004. For additional information, visit www.asce.org/governance.



Check the box and vote "YES!" to support the constitutional amendment to alter ASCE's governance structure.

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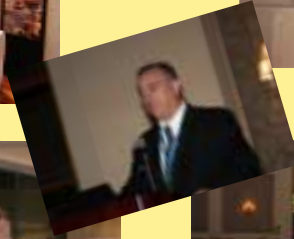
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ATLANTIC COAST CONSTRUCTION



The Construction Institute thanks our speakers for their support:

Executive Forum

Peter Kutil - King & King
Christian Burger - Burger Consulting
Paul Healy - Willis Group
Bill Marino - Allied North America
Bill Waters - CNA Surety
Dick Yeazel - Zurich NA
Lee Smither - FMI Corporation
Michael Loulakis - Wickwire Gavin
Kris R. Nielsen - Nielsen - Wurster
Robert Frenzel - La Salle Bank

I-4 Corridor, Design-Build, FL

Tom Haisch - Eby Construction
Kevin Striewalt - Eby Construction
Mel Placilla - HDR Engineering
Dan Hoyt - Lane Construction Corp.

Hathaway Bridge Replacement

Tom Boyle - Granite Construction
Bill Crittenden - Granite Construction

FDR Drive Reconstruction, NYC

Dave Vosseller - Weeks Marine

Downtown Restoration Project

Jerry Dinkles - Port Authority NY & NJ

MTA NYC Transit Program

Connie Crawford - MTA NYC Transit

Knightdale Bypass Design- Build, NC

Paul Newman - Flatiron Structures
Martijn Bolster - Flatiron Structures
Peter Graf - LPA Group

Replacement of Cooper River Bridges

John B. Pohle - Palmetto Bridge Const.
Robert F. Clair Jr. - SCDOT

CI - OSHA Alliance

T. Michael Toole - Bucknell University
Lee Anne Jillings - OSHA

I-95/I-395/I-495 Interchange, VA

Larry Cloyd - VA DOT

Woodrow Wilson Bridge

Mike Fischer - Kraemer & Sons

WMATA's Cap. Construction Prog.

Dan Korzým - WMATA

WMATA's Blue Line Ext. - Largo, MD

Dave Edfors - Lane Construction Corp.
Joe Lark - Lane Construction Corp.

WMATA's NY Ave Station

Damian Ruppert - Slattery Skanska

Dulles Development D₂ Program

Ken Vogel - MWAA

Marmet Lock, WV

George Mason - Kokosing/Fru-Con

Charlotte Light Rai Program

David Leard - CATS

Charlotte I-85 Design-Build, NC

Brian Webb - Blythe Construction
Ron Graham - NCDOT
Elham Farzam - LPA Group

Heavy Lift & Transport Solutions

Bill Halsband - Mammoet

High Performance Materials in Bridges

M. Myint Lwin - FHWA

National Air & Space Museum, VA

Mark Starkey - Hensel Phelps
Chad Mease - Hensel Phelps

Photos courtesy of Panoramic Visions
 Photography, Herndon, Virginia.

MEGA PROJECTS OF THE WEST COAST



Friday, August 20, 2004

Saturday, August 21, 2004

Seminar

Site Tour

- 7:00 **Continental Breakfast/Registration**
- 7:45 Opening Remarks
- 8:00 Mineta San Jose Intl. Airport Master Plan
Leo Carse, Parsons Brinckerhoff
- 8:45 BART Extension to Silicon Valley
Jack J. Collins, Santa Clara Valley Trans. Authority
- 9:30 **Break**
- 9:45 Sacramento Regional County Sanitation District
Lower Northwest Interceptor Program
John Buttz, MWH, Inc.
- 10:30 American River Folsom Dam Program, Sacramento
US Army Corps of Engineers
- 11:15 Bay Bridge East Span, Oakland
Douglas Coe, Caltrans
- 12:00 **Lunch**
- 1:15 GSA Federal Office Building, San Francisco
Nick Nolte, GSA
- 2:00 Hoover Dam Arch Bridge, Las Vegas
Dave Zanetell, FHWA
- 2:45 BART Warm Springs Extension
Shari Adams, BART
- 3:30 **Break**
- 3:45 Beacon Hill Light Rail Transit Tunnel, Seattle
Richard Sage, Sound Transit - Link Light Rail
- 4:30 Galena Creek Bridge, Washoe County, NV
Cindy Potter, CH2MHILL
- 5:15 **Closing Remarks**

- 8:00 **Full Breakfast Buffet/Registration**
 - 8:30 Bay Bridge East Span, Oakland
Grant Scott, Kiewit/FCI/Manson JV
 - 9:15 Tour of Bay Bridge
 - 12:00 Return to Hotel
- *Please wear long pants and hard-soled shoes for tour.

Location:

Hyatt Regency San Francisco Airport

1333 Bayshore Highway
Burlingame, CA 94010
650-347-1234

To reserve a room, call Hyatt reservations at 1-800-55-HYATT and ask for "American Society of Civil Engineers" \$89 rate. Reservations must be made by July 29, 2004 to receive the group rate.



Three Easy Ways to Register:

- By Mail:** Construction Institute
1801 Alexander Bell Dr.
Reston, VA 20191
- By Fax:** 703-295-6391
- Online:** www.ConstructionInst.org

Seminar registration includes notebook of presentation material, continental breakfast, morning break, lunch, and afternoon break. Tour registration includes full breakfast, transportation to/from hotel, and hard hat for use at site.

Registration Form

Name: _____ Nickname: _____
 Title: _____
 Company Name: _____
 Address: _____
 Phone: _____ Email: _____

Please check box if you **DO NOT** want your name distributed on the "List of Attendees"

Registration Fee Enclosed:	Early-Bird Special	
	Postmarked by 7/9/04	Postmarked by 8/6/04
Friday, August 22		
CI or ASCE Member	o \$95	o \$125
Member number _____		
Non-member		
Conference only	o \$125	o \$150
Conference plus CI membership (good through 12/31/05)	o \$165	o \$195
Student	o \$35	o \$45
Saturday, August 23		
Site Tour	o \$45	o \$55
Total	\$ _____	\$ _____

Payment must accompany registration form. Items must be postmarked by deadline dates to receive appropriate discount.

No pre-registrations will be accepted after 8/6/04.
 On-site registration may be available as space allows for an additional \$25 fee.
Cancellation requests must be received by 8/6/04.


Return this form with full payment to:
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 A confirmation email will be sent prior to the conference.

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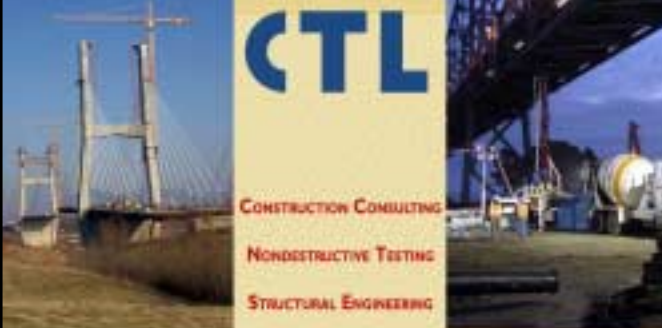


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MSU Establishes School of Planning, Design, & Construction

Construction Management Program to be a part of the new School

After several years of study and discussion, the Michigan State University (MSU) Board of Trustees recently voted to establish the School of Planning, Design, & Construction. Dr. Robert von Bernuth will serve as director of the school, which will include four programs: Construction Management, Urban & Regional Planning, Landscape Architecture, and Interior Design & Facilities Management. Effective July 1, 2004, the school will offer a BA/MA or BS/MS within each of the programs, as well as a PhD in Planning, Design, & Construction with a concentration in the constituent program.

Efforts to establish the school began in the fall of 1999 when faculty within the Construction Management (CM) Program sought to upgrade and expand the curricula in order to remain a national leader in preparing professionals to meet current and future needs of the construction industry. Originally established in 1948 through the University's land grant, teaching, and outreach mission, the CM program has expanded to accommodate a changing industry by integrating business and technical course work with a focus on commercial and residential construction. Today, the program serves the construction industry through undergraduate and graduate programs, research, and outreach. For additional information on the CM Program at MSU, visit www.canr.msu.edu/cm.

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CRC Forum

The Construction Research Council (CRC) is a committee of academics and industry professionals within the Education & Research Directorate of the Construction Institute. CRC seeks to advance the knowledge and practice of engineering by stimulating discussion and encouraging innovative research in the field of construction engineering and management. This Forum highlights research, education, and service activities by members of CRC. For more information on CRC, visit their Web site at www.ConstructionInst.org/CRC.htm.

Construction Research Council

Its History and Current Direction

As design and construction projects become more complex and project delivery times decrease, the need for fundamental research in construction engineering and management increases. For more than 30 years, members of the Construction Research Council (CRC) have worked to improve the industry through research in alternative dispute resolution, constructability, estimating methods, value engineering, innovative materials, alternative delivery methods, and risk analysis – to name just a few. CRC members assist in disseminating research by authoring textbooks, publications, guidelines, and specifications. They also help to put research into practice through industry training, continuing education, and most importantly, educating young practitioners in our universities.

Dr. Dan Halpin, Professor of Civil Engineering and Head of the Division of Construction Engineering & Management at Purdue University offers the following history of CRC:

Meetings to organize CRC first occurred in the early '70s under the leadership of L.R. "Dick" Shaffer, who was Director of the Construction Engineering Research Laboratory, U.S. Army Corps of Engineers in Champaign, IL. In 1976, the Nuclear Regulatory Commission (NRC) contacted ASCE with a purpose of identifying CRC members who might assist with research into the construction of nuclear power stations. A group of approximately 12 researchers, under the chair of Russel C. Jones, met at the ASCE spring meeting in San Diego. This meeting triggered a visit to Washington, D.C. in the summer of 1976 to meet with representatives of NRC.

By this time, NRC had changed its research direction; however, they recommended the CRC group to program managers at the Energy Research & Development Agency (ERDA), now known as the Department of Energy. Research managers at ERDA were receptive to the proposals of the group and ultimately funded nearly \$1 Million in research, with two of the projects in excess of \$300,000 each. At a time when construction research projects were a rarity and projects of \$12,000 a year were considered large, the ERDA funding was unprecedented. This level of success lifted CRC into prominence, where it has remained a cornerstone organization within CI/ASCE and the construction research community.

CRC includes more than 160 academic and industry professionals. The Council is fulfilling its current mission through three standing subcommittees:

Academic Subcommittee: This subcommittee focuses on the internal needs of CRC members. Recently, the subcommittee promoted a joint workshop with the National Science Foundation to address research methods in construction management, construction engineering, and information technology. The subcommittee also mentors young faculty and doctoral students.

Marketing Subcommittee: This subcommittee provides new avenues to disseminate research findings and to promote interaction with the construction industry. The subcommittee also updates the CRC Web site, while working to develop a new dynamic Web site as a "Virtual Community of Construction Scholars" to create links amongst academics and the industry.

CI/CRC Liaison Subcommittee: This subcommittee works to add value to CI and its members. The subcommittee provides active participation of CRC members in each of CI's seven directorates. Currently, the subcommittee is developing two publications in the areas of alternative delivery for highways and constructability.

Research is a vital, but often overlooked facet of the construction industry. CRC is positioned to meet industry challenges as its members continue to provide this critical research function. If you would like to be considered for membership in the Construction Research Council, contact the CI office at 703-295-6390 or ci@asce.org.

Nominations Sought for 2005 CI-ASCE Awards

Submissions due October 15, 2004

Each year, the Construction Institute – American Society of Civil Engineers presents six awards to individuals who have made significant contributions to civil engineering and the construction industry. The awards are made by the ASCE Board of Direction upon the recommendation of the Construction Institute (CI) and/or its constituent committees. CI members may nominate a colleague to receive any of these prestigious awards based upon the following criteria:

John O. Bickel Award – Presented to the author(s) of the best original article/paper published by the Society and pertaining to the design and/or construction of a rail or vehicular tunnel. Special consideration may be given to articles/papers that address tunnels constructed by the immersed or sunken tube method.

Construction Management Award – Selected by the Management Practices in Construction Committee within CI's Construction Directorate, this award honors a CI-ASCE member who has made significant contributions in the field of construction management. Evaluation criteria include the application of theoretical aspects of engineering economics, statistics, probability theory, operations research, and mathematically-oriented disciplines to problems of construction management, estimating, cost accounting, planning, scheduling, and financing.

Ernest E. Howard Award – Selected in conjunction with the Structural Engineering Institute, this award honors an ASCE member who has made significant contributions to the advancement of structural engineering through research, planning, design, or construction. The contribution may be in the form of papers or other written presentations, notable performance, or specific actions that serve to advance structural engineering and construction.

Peurifoy Construction Research Award – Selected by the Construction Research Council within CI's Education & Research Directorate, this award honors an individual, without restriction to CI-ASCE membership, who has made outstanding contributions to the advancement of construction engineering through research and development of new technology, principles, or practices. The recipient presents the Peurifoy Construction Advancement Address at an appropriate meeting of the Society.

Roebling Award – Recognizes and honors an individual, without restriction to CI-ASCE membership or nationality, who has made an outstanding contribution toward the advancement of construction engineering. The recipient presents the Roebling Lecture at the CI spring conference.

Thomas Fitch Rowland Prize – Presented to the author(s) of the best original article/paper published by the Society and pertaining to an accomplished work of construction or providing valuable contributions to construction management and/or construction engineering.

Seven copies of each nomination should be submitted to the CI office at 1801 Alexander Bell Drive, Reston, VA 20191 no later than October 15, 2004. Nominations for the Construction Management Award must be submitted by August 1, 2004. In order to be considered, nominations should include a detailed description of why the candidate deserves the award, a current resume of the individual being nominated, and a copy of the published article/paper, if applicable.

For additional information regarding the nominations process, contact the CI office at 703-295-6390 or ci@asce.org.

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Calendar of Events

CI Regional Conferences

Mega Projects, USA
April 13-14, 2005
Washington, D.C.



CI Regional Seminars

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

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

Mega Projects, S. California II
Los Angeles, CA
January 21, 2005

Mega Projects, East Coast II
New York, NY
January 26, 2005

Board of Directors Meetings

San Francisco, CA
August 21, 2004

Baltimore, MD
October 22, 2004

New York, NY
January 27, 2005

Washington, D.C.
April 15, 2005

CI Endorsed Conferences



**4th International Conference
on Construction Applications
of Virtual Reality**
Lisbon, Portugal
September 13-15, 2004

CI is a co-sponsor of the 2004 Conference on Construction Applications of Virtual Reality. The objective of this conference is to discuss and develop ideas for innovation, international research, and future development of the industry. For more information, visit www.adetti.pt/events/CONVR2004/.



**International Symposium on
Procurement Systems**
Las Vegas, NV
February 7-10, 2005

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