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to 19
PDHs

STRUCTURES CONGRESS 2006

MAY 18-20, 2006 ADAM'S MARK ST. LOUIS
ST. LOUIS, MISSOURI, USA

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**PRELIMINARY
PROGRAM**

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of the American Society of Civil Engineers

ASCE
American Society of Civil Engineers

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AT A GLANCE AGENDA



WEDNESDAY, MAY 17, 2006

1:00 - 5:00PM	Pre-Congress Workshops
6:00 - 8:00PM	Special Session: Hurricane Katrina
6:00 - 8:00PM	Special Session: The Impact of the NIST WTC Recommendations Upon the Profession

THURSDAY, MAY 18, 2006

8:30 - 10:00AM	Plenary Session
10:00 - 10:30AM	Refreshment Break
10:30 - 12:00AM	Concurrent Tracks
12:00 - 1:30PM	Exhibit Hall Lunch
1:30 - 3:00PM	Concurrent Tracks
3:00 - 3:30PM	Refreshment Break
3:30 - 5:00PM	Concurrent Tracks
6:30 - 8:00PM	Icebreaker Welcome Reception

FRIDAY, MAY 19, 2006

7:00 - 8:30AM	Diversity Breakfast
8:30 - 10:00AM	Concurrent Tracks
10:00 - 10:30AM	Refreshment Break
10:30 - 12:00AM	Concurrent Tracks
12:00 - 1:30PM	SEI Awards Luncheon
1:30 - 3:00PM	Concurrent Tracks
3:00 - 3:30PM	Refreshment Break
3:30 - 5:00PM	Concurrent Tracks
5:30 - 7:00PM	Networking Reception

SATURDAY, MAY 20, 2006

8:30 - 10:00AM	Concurrent Tracks
10:00 - 10:30AM	Refreshment Break
10:30 - 12:00AM	Concurrent Tracks

Earn up to 19 PDHs
in St. Louis

NOTABLE EVENTS



SPECIAL SESSIONS

HURRICANE KATRINA

Wednesday, May 17th from 6:00 - 8:00PM

On August 29, 2006, one of the most devastating natural disasters to ever hit the US coastline made landfall in both Louisiana and Mississippi as Hurricane Katrina. This storm, at the time, had the lowest ever recorded central pressure, and had been classified as a strong Category 5 hurricane days before landfall. This storm strength pushed a wall of water onto the Gulf Coast that killed more than a thousand people, destroyed tens of thousands of buildings and overtopped and failed levees protecting the City of New Orleans. ASCE members and partner organizations have participated in several important studies related to this catastrophic event. This special session will include information about the important studies done on the wind-field analysis to understand the impacts of the wind on the building damage and failures, a study by the National Institute of Standards and Technology on the failure of our infrastructure including the levees protecting New Orleans, and a study by a team from FEMA on the performance of buildings compared to those designed to current building codes and those built to current floodplain management regulations.

THE IMPACT OF THE NIST WTC RECOMMENDATIONS UPON THE PROFESSION

Wednesday, May 17th, 2006 6:00 - 8:00PM

*Speaker (s): Jon Magnusson, P.E.,
Principal, Magnusson & Klemencic*



After 3-years of study, the National Institute for Standards and Technology (NIST) released the findings of their investigation into the collapse of the World Trade Center Towers last October, which contained 30 recommendations for enhancing public safety in tall buildings. The recommendations are broad and may impact the design of all buildings.

The recommendations and their implementation are currently being debated in different forums including the SEI Board of Governors. To learn more about these recommendations, their potential impact and the status of their implementation you need to attend this special session. For complete details on the NIST report and the recommendations please visit http://www.nist.gov/public_affairs/releases/final_towers_rpt102605.htm.

STRUCTURES CONGRESS 2006

OPENING PLENARY SESSION

CORE OF ENGINEERS UPDATE

Thursday, May 18th 8:30 - 10:00AM

Steven L. Stockton, P.E., M.ASCE,

Deputy Director of Civil Works

Headquarters, U.S. Army Corps of Engineers

Steven L. Stockton currently serves as the Deputy Director of Civil Works, Headquarters, U.S. Army Corps of Engineers, Washington, D.C. In this position he shares the responsibilities of the Director of Civil Works, under the policy guidance of the Chief of Engineers and the Assistant Secretary of the Army (Civil Works), for managing and directing the policy development, programming, planning, design, construction, emergency response, operation and maintenance activities of the Army Civil Works Program, a \$5 Billion annual program of water and related land resources of the United States.

Focused tracks on application to the profession and special research tracks, such as Security and Blast mitigation

17TH ANALYSIS & COMPUTATION SPECIALTY CONFERENCE 2006

May 18-20, 10:30AM - 12:00PM

The 17th A&C Specialty Conference will highlight recent research concerning theory, practice and application of all forms of computation related to the analysis and design of engineering structures. This special Conference-within-the-Congress consists of 14 dedicated sessions organized by the Analysis and Computation TAC encompassing:

- Applied Structural Analysis including new methodologies, creative applications of structural analysis, and practical case studies that indicate the impact of analysis on the performance and economy of structures
- Emerging Computing Technology such as parallel and distributed computing, database and information systems, web-based and collaboration technologies, artificial intelligence, field-based computing, automation, hybrid simulations, grid computing, and visualization
- Optimal Structural Design for performance-based design, evolutionary computing, conceptual design, topology and geometry optimization, decomposition methods, multi-objective design, life-cycle cost optimization, soft computing
- Structural Control applied to protective systems, intelligent structures, control devices and sensors, damage detection, system identification and monitoring, teleoperation and telecontrol.

For complete details on each of the 14 A&C Conference sessions, please visit: <http://succeednow.org/asce/schedule.asp>

17TH A&C CONFERENCE PLENARY SESSION: Highlighting the 17th A&C Conference will be a special 90-minute Plenary session on Thursday, May 18th beginning at 10:30 am. Addressing the Conference will be Dr. Bill Spencer, Ph.D., P.E. of the University of Illinois and Dr. Charles Kircher, Ph.D., P.E. of Kircher & Associates.

Dr. Spencer will be presenting on the subject of *Innovative Concepts for Seismic Protection of Structures*. Dr. Bill Spencer is currently the Nathan M. Newmark Chaired Professor in the Department of Civil & Environmental Engineering, University of Illinois at Urbana-Champaign (UIUC). He has authored two books and more than 80 journal papers which have been widely cited in other publications.

Dr. Kircher's presentation will address the topic of *Protecting Older Buildings with Seismic Isolation and Damping Systems*. Dr. Kircher has made significant contributions to the field of earthquake engineering including the development of earthquake damage and loss estimation methods, seismic hazard criteria, and the isolation and damping system design criteria used in building codes.

DIVERSITY BREAKFAST

Friday, May 19th 7:00 - 8:30AM

Speaker: Neville Parker Ph.D.

Please join us for the 2006 Diversity Breakfast. Neville Parker Ph.D. will be addressing all who attend this session. This informative event will focus on the practice of diversity within the structures workforce. Individual tickets for diversity breakfast can be purchased for \$35.

AWARDS LUNCHEON

Friday, May 19th 12:00 - 1:30PM

Speaker: Colonel C. Kevin Williams, USACE Ret

Colonel C. Kevin Williams became the 47th District Engineer of the U.S. Army Corps of Engineers' St. Louis District, on June 28, 2002.

Colonel Williams holds a Bachelor of Science Degree from the United States Military Academy, a Master of Science Degree in Civil Engineering from Arizona State University, and a Master of Strategic Studies from the U.S. Army War College.

Colonel Williams' military awards and decorations include two Defense Meritorious Service Medals, seven Meritorious Service Medals, two Army Achievement Medals, the Army Service Ribbon, the National Defense Service Medal, the Humanitarian Service Medal, two Multinational Force and Observers Medals, the Ranger Tab, and the Parachutist Badge.



Colonel
C. Kevin Williams

**Network with
hundreds of other
engineers** engaged
in practice, research and
business activities



POSTER SESSIONS

Friday, May 19th 1:30 - 5:30PM Exhibit Hall Foyer

Authors will be at their poster displays during this time period and all are invited to drop by for Q & As.

STUDENT DEMONSTRATIONS

Friday, May 19th, 8:30AM - 5:30PM

Structural Engineering Students from local ASCE Student Chapters will be onsite Friday, May 19th from 8:00AM - 5:00PM offering demonstrations highlighting their research and activities at their universities. Stop by to see what the structural engineers of the future have to offer.



Get first-hand knowledge of the latest products that will help you perform your job better from our top-notch trade exhibits

EXHIBITOR OPPORTUNITIES



Put your company in the spotlight in our bustling Exhibit Hall! Please visit our web site to view the exhibitor prospectus and/or contact Sean Scully at ASCE Sales: 703-295-6154 or sscully@asce.org.

SPONSORSHIP OPPORTUNITIES



For information regarding sponsorship opportunities please visit our web site at: www.asce.org/conferences/structures2006/sponsors.cfm and/or contact Marcia Saumweber of the ASCE Foundation at 703-295-6347 or msaumweber@asce.org.

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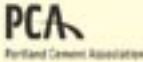
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WEDNESDAY 17 :: THURSDAY 18 ::

Pre-Congress Workshop details on page 13

WEDNESDAY, MAY 17, 2006

Pre-Congress Workshops: 1:00 - 5:00PM, including a coffee break; Structural Design for Blast Effects" & "I Could Have Made that Mistake"

6:00 - 8:00PM Special Session: Hurricane Katrina

6:00 - 8:00PM Special Session: The Impact of the NIST WTC Recommendations Upon the Profession

THURSDAY, MAY 18, 2006

Track	Building Codes	Extreme Event Loading	Structural Design, Performance, and Serviceability	Materials and Advanced Technology and Methods	Professional Practice and Engineering Management	Infrastructure Engineering	Special Structures	A&C Track 1/Structures Congress	A&C Track 2/Structures Congress
Track Chair	Duane Siegfried	Ted Pruess	Darrell McMillian	Vellore S. Gopalaratnam & Genda Chen	Niel Palmer	Joni Korte	John Finke	Don Grierson	Finley Charney & Brad Cross
8:30 - 10:00AM	Plenary Session								
10:00 - 10:30AM	Refreshment Break								
10:30 - 12:00PM	Stability Analysis and Design in the 2005 AISC Specification	Seismic Structural Monitoring in the New Madrid Seismic Area	Shear Behavior of Reinforced Concrete Members	Strengthening using FRP	Panel Disc.: Information Technology in Structural Engineering	Monitoring the Structural Condition of Bridges	Technical Session on Waterway Structures	A&C Plenary Session William Spencer	Technical Council on Forensic Engineering 1
								Charles A. Kircher	

12:00 - 1:30PM	Exhibit Hall Lunch									
1:30 - 3:00PM	Connection Design in the 2005 AISC Specification	Extreme Wind Engineering	Advances in Structural Connections. 1. Analytical Investigations	Performance of FRP Reinforcement	Condition Assessment of Structures	Corrosion and Fatigue Effects on Infrastructure Durability	Special Facilities	Sensing Technologies For Next-generation Smart Infrastructure	Technical Council on Forensic Engineering 2	
3:00 - 3:30PM	Refreshment Break									
3:30 - 5:00PM	Durability and Reliability of Advanced Materials	Seismic Design	Advances in Structural Connections. 2. Experimental Investigations	High Performance Materials	Condition Assessment of Materials	St. Louis Area Bridge Projects	Timber-Composite Bridges	Hybrid Simulation: Testing and Verification of Real-time Control Systems	Life-Cycle Design and Management of Infrastructure	
6:30 - 8:00PM	Icebreaker Welcome Reception									

For complete program details, visit our website at www.SEInstitute.org

FRIDAY 19::

FRIDAY, MAY 19, 2006

Track	Building Codes	Extreme Event Loading	Structural Design, Performance, and Serviceability	Materials and Advanced Technology and Methods	Professional Practice and Engineering Management	Infrastructure Engineering	Special Structures	A&C Track 1/Structures Congress	A&C Track 2/Structures Congress
Track Chair	Duane Siegfried	Ted Pruess	Darrell McMillian	Vellore S. Gopalaratnam & Genda Chen	Niel Palmer	Joni Korte	John Finke	Don Grierson	Finley Chamey & Brad Cross
7:00 - 8:00AM	Diversity Breakfast								
8:30 - 10:00AM	Seismic Rehabilitation of Existing Buildings Per ASCE 31	A New Standard for B Design	Advances in Analysis for Steel Frame Design	Accelerated Bridge Construction for Seismic Regions	Performance of Structures During Construction	Impact of LRFD on Timber Bridge Design and Rating	Seismic Design, Analysis and Retrofit of Bridges in the Central and Eastern US	Applications of Advanced Analysis Techniques - State of the Practice	Structural Design and Optimization for Practicing Engineers
10:00 - 10:30AM	Refreshment Break								
10:30AM - 12:00PM	Seismic Design per ASCE 7-05	Blast Resistant Wall Design	Load Bearing Mid-Rise Cold Formed Steel Building Design	Structural Control	Quality through Collaboration - The Pulitzer Foundation for the Arts	LRFD - Steel Bridges	Bridge And Tunnel Security - Research In Progress	Computational Failure Analysis of Reinforced Concrete Structures	Multiple-Solution Optimization of Structural Systems:

SATURDAY 20::

SATURDAY, MAY 20, 2006

Track Chair	Duane Siegfried	Ted Pruess	Darrell McMillian	Vellore S. Gopalaratnam & Genda Chen	Niel Palmer	Joni Korte	John Finke	Don Grierson	Finley Charney & Brad Cross
8:30 - 10:00AM	Wind Load Provisions for Low-Rise Buildings	Progressive Collapse and Fire	Selected Building Case Studies	Benchmark Structural Control Model For A Highway Bridge	Bridging the Gap Between Theory and Practice	Use and Performance of Prestressing	The Structure of Sculpture	Concrete Behavior Models - Applied Analysis	Bridge Construction and Retrofit Research
10:00 - 10:30AM	Refreshment Break								
10:30 - 12:00PM	Masonry Design Using the 2005 ed. of the MSJC	Structural Fire Safety	Floor Vibrations: Monitoring & Design	Data-Assisted Design: A Way Toward "Greener" Buildings	Olmsted Lock and Dam - Quality Design & Construction Considerations	Special Bridge Design Considerations	Assessing Structural Cables for Cable Supported Bridges	Soil Structure Interaction - Applied Analysis	Steel Structural Components and Systems

Visit the Structures Congress 2006 website @ www.SEInstitute.org to reserve your room at the Adams Mark St. Louis Hotel by April 25, 2006 to receive the Special Congress Rate.

PRE-CONGRESS WORKSHOPS

May 17, 2006, 1:00 - 5:00PM

Adam's Mark Hotel

St. Louis, MO



"I COULD HAVE MADE THAT MISTAKE"

Instructors: Ron Hamburger, S.E., Dr. Jacqueline R. Mesaros, Larry Borda, Attorney, and John Tawresey, P.E.

Managing your exposure to malpractice claims is a professional practice issue, and it is the individual engineer's behavior that has the biggest impact on these claims. Each day practicing engineers make decisions that expose themselves to professional negligence claims, so understanding the risk and managing daily behavior should be as basic to practicing engineering as the concept of static equilibrium. Yet, most risk management seminars are designed to educate the principals of the firm instead of the practicing engineer. This seminar is different.

The seminar will describe the nature of claims, present examples, and assess the impact Performance-Based Design will have on the engineer's exposure to claims.

STRUCTURAL DESIGN FOR BLAST EFFECTS

Instructors: Dr. Sam Kiger and Dr. Stan Woodson

This workshop will introduce participants to some of the reference material on blast effects and blast resistant design; provide an overview of similarities and differences between design for seismic resistance and design for blast resistance; provide an overview of blast effects; discuss how to calculate blast loads on structures; cover some recent research on blast effects on structures; and introduce participants to procedures for blast resistant design by reviewing a specific design example.

Register online now with our early bird discount and pay only \$75 for each workshop. Early bird discount ends April 15, 2006!

HOTEL INFORMATION AND RESERVATIONS



ADAM'S MARK ST. LOUIS
FOURTH STREET & CHESTNUT
ST. LOUIS, MO 63102
PHONE: (314) 241-7400
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WWW.ADAMSMARK.COM/ASCE2006

The Adam's Mark St. Louis is located downtown, across from the Gateway Arch, within walking distance of the Edward Jones Dome, Busch Stadium, Laclede's Landing, and St. Louis Centre. Easy access to America's Center Convention Center, 20 minutes from Lambert-St. Louis International Airport.

Special Congress Hotel Rates;

STANDARD	Single	Double	Triple	Quadruple
	\$149	\$149	\$169	\$189

Reservations must be made by April 25, 2006. Please dial 1-800-444-ADAM (2326) or visit the web site: www.adamsmark.com/ASCE2006 to make your reservation today! Please ask for the SEI - Structures Congress room block.

Any reservations which are not received on or before the cutoff date will be accepted by the Hotel on a space available basis at the best available rate at the time of reservation. Hotel will extend the group rate 3 days before and 3 days after Group's room block dates, subject to availability.

TRANSPORTATION

MetroLink Light Rail A one-way ride on MetroLink costs \$1.75. Tickets may be purchased and validated at each station. Tickets from the airport station to downtown St. Louis cost \$3.25. Day passes for MetroLink and MetroBuses are \$4.25. Trains run every 10 minutes during the day.

TransExpress (314) 428-7799 or (800) 844-1985, provides roundtrip service from Lambert-St. Louis International Airport to downtown and other area hotels for \$15 one way and \$25 round trip.

Gem Shuttle/Trans Express Transportation: Provides shared van service to Downtown hotels. Purchase tickets and board at: Main Terminal, Exit MT12; East Terminal, Exit ET12. Tickets are \$13.00 one way, \$21.00 round trip. Advanced reservation limousine/van services are available for transportation to your destination in St. Louis and surrounding Missouri/Illinois locations. Phone (314) 427-3311.

ST. LOUIS ATTRACTIONS



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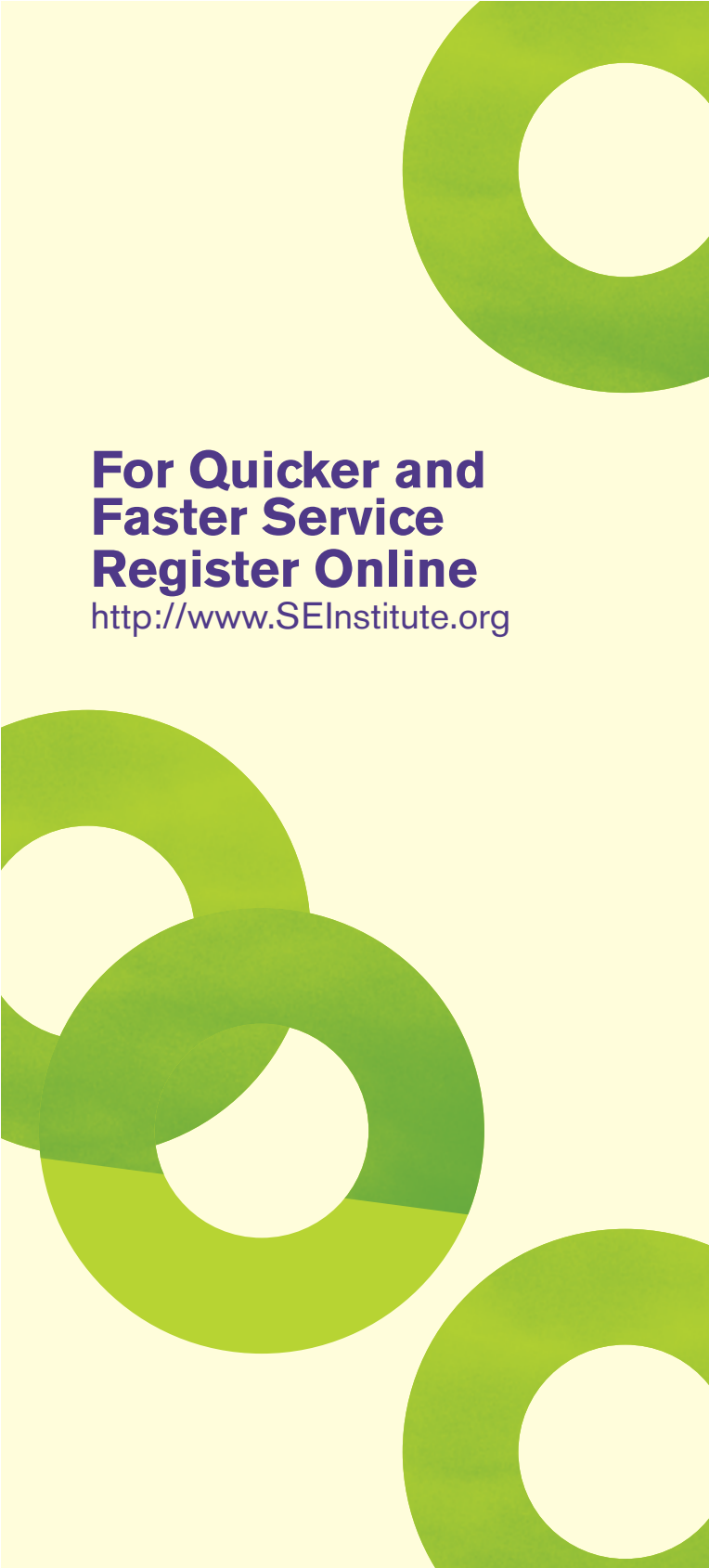
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Sun.: 11:30AM - 4:00PM Sun.: 11:30AM - 5:00PM

Register by April 15
& Save up to \$100

The background features several large, overlapping green circular patterns. These patterns are composed of thick green rings with white centers, arranged in a way that they appear to be interlocking or overlapping. One ring is positioned in the top right corner, another in the middle left, and a third in the bottom right. The overall aesthetic is clean and modern, with a focus on geometric shapes and a vibrant green color palette.

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<http://www.SElInstitute.org>

(Please PRINT or TYPE all information)

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Please answer these questions so that we may serve you better

- Check here if you require special accommodations. An ASCE representative will contact you to discuss your needs
- Check here if you require Vegetarian or other special Meal(s)

INCLUDED IN YOUR REGISTRATION FEE	Sessions	Exhibit Hall Lunch (Thurs.)	Icebreaker Reception (Thurs.)	SEI Awards Luncheon (Fri.)	Networking Reception (Fri.)	Proceedings
Full Conference Registrant (Member/Non-Member/Speaker/Moderator)	●	●	●	●	●	●
Daily Registrant	●	Thursday only	Thursday only	Friday only	Friday only	
Full-time Students, Proof of Full-Time Student Status Required	●					●

Full Registration

Includes sessions, Exhibit Hall Lunch (Thurs.), Icebreaker Reception (Thurs.), SEI Awards Luncheon (Fri.), Networking Reception (Fri.), and Congress Proceedings.

	Early Bird By April 15	On-Site After April 15	Amount
Speaker/Moderator	\$395	\$495	_____
Member ASCE/SEI	\$495	\$595	_____
Non-Member	\$595	\$695	_____

Daily Registrations

Includes sessions for day of registration. Exhibit Hall Luncheon and Icebreaker Reception with Thursday registration only. SEI Awards Luncheon and Networking Reception with Friday registration only.

	Early Bird By April 15	On-Site After April 15	Amount
Speaker/Moderator	\$135	\$195	_____
Member ASCE/SEI	\$175	\$245	_____
Non-Member	\$225	\$295	_____

Please select day of registration below

- Thurs. Fri. Sat. (Half day registration \$150)

	Early Bird By April 15	On-Site After April 15	Amount
Pre-Congress workshop on Risk Management	\$75	\$95	_____
Pre-Congress workshop on Structural Design for Blast Effects	\$75	\$95	_____

Full-Time Student

Includes sessions and 1 copy of the Congress Proceedings.

	Early Bird By April 15	On-Site After April 15	Amount
	\$50	\$75	_____

Additional Tickets

- Exhibit Hall Lunch (Thurs.) \$35
- Icebreaker Reception (Thurs.) \$65
- Networking Reception (Fri.) \$45
- Diversity Breakfast (Fri.) \$35
- SEI Awards Luncheon (Fri.) \$40
- Congress Proceedings \$85
- Additional Tickets Subtotal _____ (from above)

Cancellation deadline: April 15, 2006

Registration Subtotal _____

Additional Tickets Subtotal _____

Registration Subtotal _____

GRAND TOTAL (Pay this amount) _____

To Pay Registration by Credit Card, Please Complete This Section: AMEX VISA MC DISC DINERS Total to be charged \$ _____

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To Pay Registration by Check: Make check payable to: **ASCE/SEI 2006 Conference**. Checks must be issued in US dollars, drawn on a US bank. Registrations must be accompanied by payment or copy of purchase order. For pre-registration discount, postmark form by April 15, 2006. Mail to ASCE, Conferences and Expositions, P.O. Box 79668, Baltimore, MD 21279-0668, USA. Telephone: (800) 548-2723 within the U.S. or (703) 295-6300 (international). Fax: (703) 295-6144. CANCELLATIONS must be made in writing and submitted BEFORE April 15, 2006. A \$50 processing fee will be deducted from the registration fee.

STRUCTURES 2007



**DON'T MISS
STRUCTURES
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**May 16-19, 2007
New Horizons &
Better Practices
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