AGENDA

SUNDAY, JULY 27, 2008

7:00 am – 8:00 am  Pre-Conference Workshop Check-in  Mezzanine Level

8:00 am – 5:00 pm  Pre-Conference Workshop: “Best Practices for Seismic Design & Retrofit of Bridges”  (Pre-Registration Required)  Carolina Ballroom
Moderator: Reggie Holt, Federal Highway Administration  Mezzanine Level
(Breakfast will be provided. Lunch is on your own)

1:00 pm – 8:00 pm  6NSC Conference Registration  Mezzanine Level

3:00 pm – 6:00 pm  Student Bridge Competition Assembly of Bridges (All welcome)  Calhoun Room
Moderator: Juan Caicedo, University of South Carolina  Mezzanine Level
Breakfast will be provided. Lunch is on your own

3:00 pm – 6:00 pm  Poster Set-up (Posters will remain on display until the Poster Session on Tuesday)  Colonial Room
Coordinator: Tina Hembree, South Carolina Department of Transportation  Lobby Level

5:00 pm – 9:00 pm  Exhibitor Set-up  Gold Ballroom
Coordinator: Tina Hembree, South Carolina Department of Transportation  Second Floor

6:00 pm – 8:00 pm  Ice Breaker Reception  Colonial Room, Lobby Level

MONDAY, JULY 28, 2008

7:00 am – 5:00 pm  Conference Registration  Mezzanine Level

7:00 am – 8:00 am  Breakfast  Gold Ballroom, Second Floor

8:00 am – 9:30 am  PLENARY SESSION I  Carolina Ballroom
Moderator: Jerome O’Connor, MCEER, University at Buffalo  Mezzanine Level

8:00 am – 8:15 am  Welcome  Carolina Ballroom
W. Phillip Yen, Federal Highway Administration  Mezzanine Level

8:15 am – 8:30 am  Welcome  Carolina Ballroom
H. B. Limehouse, Jr., South Carolina Secretary of Transportation  Mezzanine Level

8:30 am – 9:00 am  U.S. Highway Infrastructure in the 21st Century  Carolina Ballroom
King Gee, Federal Highway Administration  Mezzanine Level

9:00 am – 9:30 am  A Summary of FHWA Sponsored Research  Carolina Ballroom
W. Phillip Yen, Federal Highway Administration  Mezzanine Level

9:30 am – 10:00 am  Break  Gold Ballroom, Second Floor

10:00 am – 11:45 am  CONCURRENT TECHNICAL SESSIONS: 1A1 and 1B1

Track A – Carolina A, Mezzanine Level

SESSION 1A1: SEISMIC ACCELERATED BRIDGE CONSTRUCTION (ABC)
Moderator: Dan Tobias, Illinois Department of Transportation

1. Strategic Implementation Plan for Accelerated Bridge Construction in California
   Kevin Thompson, Michael Keever, and Raymond Wolfe

2. Pre-Fabricated Bridge Superstructures
   Amjad J. Aref, Gordon P. Warn, Petros Sideris, and Andre Filiatrault

3. Use of Precast Bridge Members in Areas of High or Moderate Seismicity
   Jugesh Kapur and Bijan Khaleghi

4. Emergency Repair of Damaged Bridge Columns Using Fiber Reinforced Polymer (FRP) Materials
   Ashkan Vosooghi, M. Saidi Saidi, Jim Gutierrez, and Scott F. Arnold

5. Seismic Continuity Performance of Precast Girders Connected to a Cast-in-Place Bent Cap
   Kevin Almer and David Sanders

Track B – Carolina B, Mezzanine Level

SESSION 1B1: NEW GEO-SEISMIC PRACTICE AND GUIDELINES
Moderator: Paul Liles, Georgia Department of Transportation

1. Analysis of Pile Group Under Lateral Loads Using the LRFD Guidelines
   Mohamed Ashour and Gary Norris

2. Passive Force-Deflection Curves for Abutments with MSE Confined Approach Fills
   Luke Heiner, Kyle M. Rollins, and Travis M. Gerber

3. SCDOT's New Geo-Seismic Practice
   Nicholas E. Harman, and Eduardo A. Tavera

4. Proposed AASHTO Specifications for the Seismic Design of Retaining Walls, Slopes and Embankments, and Buried Structures
   Donald G. Anderson, Geoffrey R. Martin, I.P. Lam, and J.N. Wang

5. Effects of Structural Characterizations on Fragility Functions of Bridges Subjected to Seismic Shaking and Lateral Spreading
   Jian Zhang, Yili Huo, Pirooz Kashighandi, and Scott J. Brandenberg

(Continued)
# AGENDA

## MONDAY, JULY 28, 2008 (Continued)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:45 am – 1:00 pm</td>
<td>Lunch (provided): The Charleston Earthquake, Then and Now Pradeep Talwani, University of South Carolina</td>
<td>Colonial Room Lobby Level</td>
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<tr>
<td>1:00 pm – 2:45 pm</td>
<td><strong>CONCURRENT TECHNICAL SESSIONS: 1A2 AND 1B2</strong></td>
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</tbody>
</table>
| Track A – Carolina A, Mezzanine Level | **SESSION 1A2: EMERGING SEISMIC DESIGN AND RETROFIT TECHNOLOGIES**  
Moderator: Stephen Maher, Transportation Research Board  
1. The Development of the FHWA Pushover Analysis Computer Program  
   J. Jerry Shen, Linda Kuo-Lin, Jeffrey Ger, and W. Phillip Yen  
2. Calibration of a Model to Estimate the Residual Post-Earthquake Capacity of Circular Bridge Columns  
   Vesna Terzic, Kevin Mackie, Bozidar Stojadinovic  
3. Ductility Analysis of Type II Pile Shaft  
   Larry Wu and Ray Wolfe  
4. Evaluation of Joint Shear Response for Existing California Bridges  
   Fadel Alameddine and Michael Keever  
5. New Seismic 1000 Year Return Period – Impact to Bridge Design Methodologies  
   Derrell Manceaux | Track B – Carolina B, Mezzanine Level  
**SESSION 1B2: LIQUEFACTION AND MITIGATION**  
Moderator: Vijay Chandra, Parsons Brinckerhoff  
1. Static and Dynamic Lateral Load Tests in Liquefied Sand for the Cooper River Bridge, Charleston, South Carolina  
   Kyle Rollins, Seth Bowles, Luke Hales, and Scott Ashford  
2. Liquefaction Mitigation on South Carolina Highway Bridge Projects  
   William M. Camp, III, Aaron Goldberg, Jeffery Sizemore, Nicholas Harman  
3. Retrofitting Bridge SR167/112W for Liquefaction-Induced Settlements  
   Yang Jiang and Gerald Dorn  
4. Seismic Vulnerability of Bridges Susceptible to Spatially Distributed Soil Liquefaction Hazards  
   Bayram Aygun, Leonardo Duenas-Osorio, Jamie Ellen Padgett, and Reginald Des Roches  
5. Pile-Supported Embankment and Driven Pile Slope Stabilization Value Engineering for Liquefaction Mitigation  
   Aaron Goldberg and Mike Miller |
| 2:45 pm – 3:15 pm | Break                                                                                     | Gold Ballroom, Second Floor            |
| 3:15 pm – 5:00 pm | **CONCURRENT TECHNICAL SESSIONS: 1A3 AND 1B3**                                            |                                        |
| Track A – Carolina A, Mezzanine Level | **SESSION 1A3: EVOLVING BRIDGE SEISMIC SPECIFICATIONS AND ITS IMPACT IN DESIGN – A STATE’S PERSPECTIVE**  
Moderator: Ed Wasserman, Tennessee Department of Transportation  
1. AASHTO LRFD Guide Specifications for Seismic Design of Highway Bridges  
   Roy Imbsen  
   Stephanie Brandenberger  
4. Updated South Carolina Department of Transportation Seismic Design Specifications for Highway Bridges  
   Lucero E. Mesa, Zhugang Amos Liu, and Saiying Zhou  
5. Effects of New LRFD Seismic Bridge Design Specifications to a ‘Normal’ Typical Bridge in New York State  
   Rajesh Tanaja, Mngisteb Debessay, and Arthur Yannotti | Track B – Carolina B, Mezzanine Level  
**SESSION 1B3: LESSONS LEARNED FROM RECENT EARTHQUAKES AND OTHER EXTREME EVENTS**  
Moderator: Richard Pratt, Alaska Department of Transportation  
1. An Assessment of Damage to Peru’s Highway System after the M8.0 Pisco Earthquake  
   Jerome S. O’Connor, Lucero E. Mesa, Monique Nykamp  
2. Hurricanes Katrina and Rita - Louisiana’s Response and Recovery  
   Ray Mumphrey and Hossein Ghara  
3. Replacement of Caminada Bay Bridge in Louisiana Coastal Engineering Study and Support for Design  
   Zhengzheng "Jenny" Fu, Arthur D’Andrea, and Hossein Ghara  
4. Assessment of Blast Resistance of Seismically Designed Bridges  
   Jason Fang, Paul Chung, Ray W. Wolfe, and Michael Keever  
5. Blast Resistance of Seismically Designed Highway Bridge Piers  
   Shuichi Fujikura and Michel Bruneau |
| 5:00 pm – 6:00 pm | Reception and Student Bridge Design Competition (Judging)  
Moderator: John Walsh, South Carolina Department of Transportation | Colonial Room Lobby Level                |
| 6:00 pm – 7:30 pm | **CONCURRENT SPECIAL SESSIONS: T3 AND T5**                                                |                                        |
| Track A – Carolina A, Mezzanine Level | **T3: SPECIAL SESSION ON AASHTO T3 (SEISMIC) 2008 BALLOT ITEM: LIQUEFACTION AND OTHER GUIDE-SPECIFICATION CHANGES**  
Moderator: Kevin Thompson, California Department of Transportation | Track B – Carolina B, Mezzanine Level  
**T5: SPECIAL SESSION ON AASHTO T5 (LOADS) 2008 BALLOT ITEM: COASTAL ENGINEERING**  
Moderator: Hossein Ghara, Louisiana Department of Transportation |
TUESDAY, JULY 29, 2008

7:00 am – 5:00 pm Conference Registration

7:00 am – 8:00 am Breakfast

8:00 am – 9:45 am PLENARY SESSION II
Moderator: George C. Lee, University at Buffalo

8:00 am – 9:45 am Highway Infrastructure Damage Resulting from Sichuan, China Earthquake of May 12, 2008
Guest Speaker

9:45 am – 10:15 am Break

10:15 am – Noon CONCURRENT TECHNICAL SESSIONS: 2A1 AND 2B1

Track A – Carolina A, Mezzanine Level

SESSION 2A1: EMERGING SEISMIC DESIGN AND RETROFIT TECHNOLOGIES
Moderator: Jugesh Kapur, Washington State Department of Transportation

1. New Tools Available to Practicing Engineers for the Seismic Design of Bridges
   W. Phillip Yen, George C. Lee and Jerome S. O’Connor

2. The Plastic Hinge Demystified
   David W. Taylor, Andy E. Cook and J. Preston Felkel

3. Damping-Enhanced Strengthening: A Unique Way to Normalize the Seismic Performance of RC Bridges for Multiple Objectives
   Genda Chen and Kazi R. Karim

4. Seismic Retrofit of Highway Bridges in the United States
   Glenn Smith

5. Evaluating the Seismic Stability and Performance of Freestanding Geofoam Embankment
   Steven F. Bartlett and Evert C. Lawton

Track B – Carolina B, Mezzanine Level

SESSION 2B1: SOIL-STRUCTURE INTERACTION AND FOUNDATIONS
Moderator: Bryan Hartnagel, Missouri Department of Transportation

1. Soil-Foundation-Structure Interaction of Long-Span Bridge Structures
   Anoosh Shamsabadi, Hubert Law and Amir Zand

2. The Golden Ears Bridge Design-Build Project: Foundation Design for Segment 4 Approach Structures
   King Sampaco, Ha Pham, and Donald Anderson

3. Effect of Nonlinear Pile Stiffness on Bridge Seismic Response
   Jin-Xing Zha

4. Effect of Shallow Foundation Rocking on Dynamic Response of Bridges
   Andres Espinoza and Stephen Mahin

5. Developing Spectra For Type F Soils For Two Bridge Sites Near Salt Lake City
   Zia Zafi r and James Higbee

Noon – 1:00 pm Lunch (provided):
Presentation of Awards for Student Competition, Best Papers
By John Walsh, South Carolina Department of Transportation

(Continued)
AGENDA

TUESDAY, JULY 29, 2008 (Continued)

1:00 pm – 2:45 pm  **CONCURRENT TECHNICAL SESSIONS: 2A2 AND 2B2**

**Track A – Carolina A, Mezzanine Level**

**SESSION 2A2: DESIGN AND ANALYSIS OF MAJOR BRIDGES IN AREAS OF HIGH OR MODERATE SEISMICITY**
Moderator: Stephanie Brandenberger, Montana Department of Transportation

1. Seismic Detailing on the Stono River Bridge in South Carolina
   Robert Fish and Ernie Dozzi

2. Seismic Evaluation of the I-155 Bridge Over the Mississippi River
   Mark R. Capron

3. Seismic Analyses and Evaluation for Retrofit of the Suspended Spans of the Bronx-Whitestone Bridge
   Ruben B. Gajer, David Rubin, Adam Hapij, Fangyin Zhang, Christopher Mauch and Mohammed Ettouney

4. Lake Natoma Crossing: Combining High Performance Requirements for Seismic, River Flow, and Scour with a High Aesthetics Demand
   Robert Fish

5. Development of Seismic Design Criteria for the Dumbarton and Antioch Toll Bridges, California
   Hubert K. Law, Ignatius Po Lam, Brian Maroney, and Saba Mohan

**SESSION 2B2: SEISMIC INSTRUMENTATION AND MONITORING SYSTEMS**
Moderator: Rajesh Taneja, New York State Department of Transportation

1. Evaluation of Damage Identification Algorithms applied to a 4-span Concrete Bridge Subjected to Near Source Ground Motions Using Nonlinear Finite Element Method
   Amirhossein Irmanesh, Seyed A. Bassam and Farhad Ansari

2. Changes in Modal Frequencies of a Highway Bridge
   Marvin W. Halling, Shutao Xing, Paul J. Ban, Zachary C. Hansen

3. Rion-Antirion Monitoring System
   Aris Vlamis-Stathopoulos, Gilles Hovhanessian and Benoit Kroely

4. Energy Based Approach for Post Seismic Structural Health Monitoring of a Four Span Bridge
   Seyed A. Bassam, Amirhossein Irmanesh and Farhad Ansari

5. Development of Rocking Column Systems
   Matthew J. Tobolski and José I. Restrepo

2:45 pm – 3:15 pm  **Break**

3:15 pm – 5:00 pm  **CONCURRENT TECHNICAL SESSIONS 2A3 AND 2B3**

**Track A – Carolina A, Mezzanine Level**

**SESSION 2A3: EARTHQUAKE STRATEGIES FOR PROTECTION AGAINST OTHER HAZARDS**
Moderator: Hossein Ghara, Louisiana Department of Transportation

1. Developing a Methodology for Comparison of Extreme Hazards for Highway Bridge Design
   George C. Lee, Sangyul Cho, Mai Tong and W. Phillip Yen

2. Multiple Hazard Research Needs and AASHTO Code Development Activities
   Harry A. Capers, George C. Lee, and Jerome S. O'Connor

3. Seismic Hazard Considerations within a Multihazard Environment
   Mohammed Ettouney and Sreenivas Alampalli

4. Beneficial Aspects of a Multi-Hazard Approach to Design of Highway Bridges
   M. Ala Saadeghvaadri and Bakhtiar Feizi

5. Large-Scale Wave Flume Experiments on Highway Bridge Superstructures Exposed to Hurricane Wave Forces
   Thomas Schumacher, Christopher Higgins, Christopher Bradner, Daniel Cox, and Solomon Yim

**SESSION 2B3: SEISMIC RISK ASSESSMENT OF HIGHWAY NETWORKS**
Moderator: Ken Johnson, Federal Highway Administration

1. Experiences in Creating a Seismic Risk Model of the Oregon Highway Bridge Network Using REDARS2
   Peter Dusicka, Michael Glickman, Helen Oppenheimer and Holly Winston

2. Seismic Risk Assessment of the Transportation Network of Charleston, South Carolina
   Reginald DesRoches, Jamie Padgett, and Emily Nilsson

3. Effects of Retrofits on Seismic Fragility of Multi-Span Continuous Steel Highway Bridges in New York State
   Anil K. Agrawal, Ying Pan and Sreenivas Alampalli

4. Seismic Risk Assessment of Priority Bridges along I-24 in Western Kentucky
   Wael Zatar, Issam Harik, Wei-Xin Ren, and Tong Zhao

5. Probabilistic Damage Control Approach (PDCA) and Performance-Based Design of Bridges
   Abbas M. Tourzani, Amir M. Malek, Sam Ataya, and Mark Mahan

5:00 pm – 6:00 pm  **Reception and Poster Session (with an award for Best Poster)**
Moderator: Reginald DesRoches, Georgia Institute of Technology

**Track B – Carolina B, Mezzanine Level**

**SESSION 2B3: SEISMIC RISK ASSESSMENT OF HIGHWAY NETWORKS**
Moderator: Ken Johnson, Federal Highway Administration

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5:00 pm – 6:00 pm  **Reception and Poster Session (with an award for Best Poster)**
Moderator: Reginald DesRoches, Georgia Institute of Technology

Colonial Room
Lobby Level
**AGENDA**

**WEDNESDAY, JULY 30, 2008**

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<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:00 am – Noon</td>
<td>Conference Registration</td>
<td>Mezzanine Level</td>
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<td>7:00 am – 8:00 am</td>
<td>Breakfast</td>
<td>Gold Ballroom, Second Floor</td>
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<td>8:00 am – 9:45 am</td>
<td><strong>PLENARY SESSION III</strong></td>
<td>Carolina Ballroom Mezzanine Level</td>
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<td><strong>Moderator:</strong> Myint Lwin, Federal Highway Administration</td>
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<td>8:00 am – 8:45 am</td>
<td>Displacement Based Seismic Design of Bridges</td>
<td>Carolina Ballroom Mezzanine Level</td>
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<td><strong>Gian Michele Calvi, University of Pavia, Italy</strong></td>
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<tr>
<td>8:45 am – 9:30 am</td>
<td>Reconstruction of Ica, Pisco, Chincha and Cañete, Peru, Based on Updated Hazard Maps</td>
<td>Carolina Ballroom Mezzanine Level</td>
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<td><strong>Julio Kuroiwa, National University of Engineering, Lima, Peru</strong></td>
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<td>9:30 am – 9:45 am</td>
<td>Closing Remarks</td>
<td>Carolina Ballroom Mezzanine Level</td>
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<td><strong>W. Phillip Yen, Federal Highway Administration</strong></td>
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<tr>
<td>9:45 am – 10:15 am</td>
<td>Break</td>
<td>Gold Ballroom, Second Floor</td>
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<tr>
<td>10:15 am – Noon</td>
<td><strong>CONCURRENT TECHNICAL SESSIONS: 3A1 AND 3B1</strong></td>
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<td><strong>Track A</strong></td>
<td>Carolina A, Mezzanine Level</td>
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<tr>
<td><strong>SESSION 3A1: INTERNATIONAL TECHNOLOGIES AND PRACTICES</strong></td>
<td>Moderator: Juan Caicedo, University of South Carolina</td>
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<tr>
<td>1. Extreme Wind Loads</td>
<td><strong>Dorian Jancic</strong></td>
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<td>2. Advanced Seismic Design Considerations for Highway and High Speed Railway Bridges in Spain</td>
<td><strong>Jose-Luis Sanchez Jimenez</strong></td>
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<td>3. Expected Behavior of the Infiernillo II Bridge in Mexico</td>
<td><strong>José M. Jara, Manuel Jara and Hugo Hernández</strong></td>
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<tr>
<td>4. Experimental Investigations of Precast Segmental Bridge Columns Seismically Isolated with Lead-Rubber Bearings</td>
<td><strong>Yu-Chen Ou, Mu-Sen Tsai, Ping-Hsiung Wang, Kuo-Chun Chang, and George C. Lee</strong></td>
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<td>5. Seismic Performance of Skewered Bridges with Sliding Rubber Bearings</td>
<td><strong>Kevin Lui and Kuo-Chun Chang</strong></td>
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<tr>
<td>Noon – 4:30 pm</td>
<td>Technical Boat Tour</td>
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<td><em>(Pre-registration required. Box lunch provided)</em></td>
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<td><strong>Presenter:</strong> Daniel Burton, South Carolina Department of Transportation</td>
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<td><strong>Track B</strong> – Carolina B, Mezzanine Level</td>
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<tr>
<td><strong>SESSION 3B1: EFFECTS OF NEAR-FIELD EARTHQUAKES ON BRIDGES</strong></td>
<td>Moderator: Derrell Manceaux, Federal Highway Administration</td>
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<tr>
<td>1. Simplified Analysis of Bridges Crossing Fault-Rupture Zones</td>
<td><strong>Rakesh K. Goel and Anil K. Chopra</strong></td>
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<tr>
<td>2. Study of Pulse Effects of NFGM on the Dynamic Response of Bridge Structures</td>
<td><strong>Ajit C. Khane and Eric M. Lui</strong></td>
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<tr>
<td>3. Effects of Near-field Earthquakes on Bridges with Tall Bearings</td>
<td><strong>Monique C. Hite, Siddharth Srivastava, Reginald DesRoches, and Roberto T. Leon</strong></td>
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<tr>
<td>4. Development of a Biaxial Hysteretic Model for Reinforced Concrete Structures</td>
<td><strong>Shu-Hsien Chao and Chin-Hsiung Loh</strong></td>
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<tr>
<td>5. The Influence of Vertical Earthquake Motion and Pre-Earthquake Stress State on the Seismic Response of Precast Segmental Bridge Superstructures</td>
<td><strong>Mark Veletzos and José I. Restrepo</strong></td>
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<tr>
<td>Noon – 4:30 pm</td>
<td>Meet bus at hotel door</td>
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**Seismic Retrofitting Manual for Highway Structures**

*Part 1-Bridges* and *Part 2-Retaining Structures, Slopes, Tunnels, Culverts and Roadways*

**Now Available on CD-ROM**

The CD includes over 1,000 pages on the latest procedures for screening, evaluating and retrofitting bridges and other important highway system structures along with the USGS Open File Report 01-436, “Seismic Hazard Curves and Uniform Hazard Response Spectra for the United States," all for $95.

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**To Order, Visit:**

http://mceer.buffalo.edu/publications/Bridge_and_Highway_Reports/Bridge_Manuals.asp
**Program at a Glance**

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<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
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<tbody>
<tr>
<td>Registration: 1:00 pm - 8:00 pm</td>
<td>7:00 am - 5:00 pm</td>
<td>7:00 am - 5:00 pm</td>
<td>7:00 am - Noon</td>
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<tr>
<td><strong>Pre-Conference Workshop:</strong></td>
<td><strong>Plenary Session</strong></td>
<td><strong>Plenary Session</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
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<tr>
<td>&quot;Best Practices for Seismic Design &amp; Retrofit of Bridges&quot;</td>
<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>Lunch (Included)</strong></td>
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<tr>
<td>8:00 am - 5:00 pm Carolina</td>
<td><strong>Lunch (Included)</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
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<td>(Lunch is on your own)</td>
<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>Reception &amp; Poster Session</strong></td>
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<td><strong>Reception &amp; Judging of Student Competition</strong> 5:00 pm - 6:00 pm Carolina</td>
<td>5:00 pm - 6:00 pm Carolina</td>
<td><strong>Boat Tour (optional)</strong> Bus departs hotel at Noon. Return by 4:30 pm. (Box lunch is included)</td>
</tr>
<tr>
<td>Ice Breaker 6:00 pm - 8:00 pm Carolina</td>
<td>Concurrent Sessions on 2008 AASHTO T3 &amp; T5 Ballot Items 6:00 pm - 7:30 pm Carolina</td>
<td><strong>Plenary Session</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
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<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>Lunch (Included)</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
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<td><strong>Notes:</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>Reception &amp; Poster Session</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
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<tr>
<td>- The conference registration desk is on the Mezzanine Level, at the top of the stairs, one floor up from the Lobby.</td>
<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>Reception &amp; Poster Session</strong> 5:00 pm - 6:00 pm Carolina</td>
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<td>- All technical sessions are in the Carolina Room on the Mezzanine Level.</td>
<td><strong>Lunch (Included)</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
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<tr>
<td>- Exhibitors, breakfast, and all breaks are in the Gold Ballroom.</td>
<td><strong>2 Concurrent Sessions</strong></td>
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<td><strong>2 Concurrent Sessions</strong></td>
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<tr>
<td>- Exhibitor set up is Sunday 5:00 - 9:00 pm in the Gold Ballroom. Take-down is Wednesday 10:15 - Noon.</td>
<td><strong>2 Concurrent Sessions</strong></td>
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<td><strong>2 Concurrent Sessions</strong></td>
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<tr>
<td>- All are invited to watch the assembly of bridges for the student competition Sunday 3:00 - 6:00 pm in the Calhoun Room.</td>
<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
<td><strong>2 Concurrent Sessions</strong></td>
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<tr>
<td>- Student Bridge Competition to be judged during the reception Monday 5:00 - 6:00 pm in the Colonial Room.</td>
<td><strong>2 Concurrent Sessions</strong></td>
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**Leaders in Seismic Design**

T.Y. Lin International is a leader in the field of seismic analysis and the retrofit design of bridges. We have developed state-of-the-art seismic technology and offer our clients complete inspection services, structural investigations, rehabilitation design and repair, and seismic evaluation/retrofit design of existing structures.

For the Cooper River Bridge, in a joint venture with HDR, we provided design review, construction engineering, and field inspection services for what is now the longest cable-stayed span in North America.

For more information on this project and many others, visit www.tylin.com.

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**TYLIN INTERNATIONAL**

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**San Francisco-Oakland Bay Bridge East Span**
San Francisco, California

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**Million Dollar Bridge**
Cordova, Alaska

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**Verrazano-Narrows Bridge**
New York City, New York

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**Cooper River Bridge**
Charleston, South Carolina