

Sessions-at-a-Glance



Sunday, July 25, 2010

Monday, July 26, 2010

| Opening Plenary Session 17:00–19:00 <i>Metro Centre-East</i> | Monday Plenary Session 8:00–9:30 <i>Metro Centre-East</i> |
|---|--|
| Welcome and Bienvenue | Scenario Spectra for Design Ground Motions and Risk Calculation |
| U.S. Federal Programs: Dept. of Energy, Nuclear Regulatory Commission | Future Directions in Geotechnical Earthquake Engineering |
| The 21st Century Goal for Seismic Safety: Resilient Cities | Understanding Interdependencies Among Critical Infrastructures |
| The Role of Structural Consultants and Design Practitioners in the Development of Canadian Earthquake Codes | Societal Dimensions of Earthquakes and Other Disasters: Findings in Search of Theory |
| Overview of the U.S. National Earthquake Hazards Reduction Program | |

Monday, July 26, 2010

Oral Sessions

| Room/Track | 10:00 - 11:40 | Room/Track | 13:00 - 14:40 | Room/Track | 15:40 - 17:20 |
|-------------------|---|-------------------|--|-------------------|---|
| Metro Centre BS | M1. Design & Assessment of Reinforced Concrete Buildings | Metro Centre BS | M11. Design & Assessment of Steel & Wood Buildings | Metro Centre BS | M21. Performance-Based & Displacement-Based Design |
| Marine LL | M2. Dams & Levees | Harbour B RC | M12. Concrete Frame Structures | Harbour B RC | M22. Concrete Columns |
| Pier 5 RE | M3. Fiber-Reinforced Polymer Column Retrofit | Marine LL | M13. Lifelines: Pipelines | Harbour A ST | M23. Special Session: Seismic Engineering of Controlled-Rocking Systems for Steel Framed Structures |
| Pier 4 WB | M4. Special Session: Changes in the Seismic Design of Wood Buildings to Reach New Heights | Pier 5 RE | M14. Repair & Retrofit of Composite Frames | Pier 5 RE | M24. New & Different Retrofit Techniques |
| Harbour C NIT | M5. Seismic Input & Analysis Strategies | Harbour C NIT | M15. Seismic Behavior & Analysis of Structures | Marine WB | M25. Seismic Response of Wood Buildings |
| Harbour B RC | M6. Seismic Behavior of RC Wall Elements & Systems | Pier 4 SEP | M16. Special Session: School Retrofit Program | Harbour C NIT | M26. Case Studies in Seismic Response |
| Metro East PS | M7. Special Session: Highlights of Ongoing Activities of NEES Tools for Isolation & Protective Systems (TIPS) Project | Metro East PS | M17. Analysis & Testing of Isolators | Pier 4 SEP | M27. Special Session: Seismic School Safety -- How to Reduce the Threat? |
| Regatta MH | M8. Special Session: Structures in Fire & Earthquake | Regatta MH | M18. Special Session: Structures in Fire & Earthquake Panel | Regatta EX | M28. Full-Scale Laboratory & Field Tests |
| Harbour A GM | M9. Site & Basin effects | Harbour A GM | M19. On the Basis for Ground Motion Prediction Equations (GMPEs) | Metro East PS | M29. New Behavior Modes for Isolated Systems |
| Pier 2 & 3 PPF | M10. Special Session: Canadian Seismic Research Network | Pier 2 & 3 PPF | M20. Special Session: The Future of the Network for Earthquake Engineering Simulation (NEES) | Pier 2 & 3 SR | M30. Ground Motion, Seismicity, & Seismic Risk |

| Poster Session 14:40 - 15:40 <i>Frontenac Room</i> | | | |
|---|--|---------|---|
| ST | Seismic Design & Performance of Steel Structures | SEP | Lessons Learned from Recent Earthquakes |
| BR | Seismic Design & Performance of Bridges | PER/DAR | Post-Earthquake Response, Damage Assessment, & Recovery |
| WB | Seismic Response of Wood Buildings | SEP | Public Policy & Seismic Awareness |
| PS | Protective Systems | SEP | Education |
| PS | Energy Dissipation Systems | SEP | Preparedness |

TOPIC TRACKS:

BR: Bridge Structures
 BS: Buildings, Structural & Nonstructural Systems
 DAR: Damage Assessment & Recovery
 MH: Earthquake & Multiple Hazard Design
 EX: Experimental Methods
 GM: Ground Motion
 LL: Lifelines, incl. Dams, Levees, Ports

MA: Masonry Buildings
 NS: Non-Structural Components
 NIT: Numerical Research, Information Technology, & Collaborative Tools
 PPF: Past, Present, & Future Overview
 PER: Post-Earthquake Response
 PS: Protective Systems, Seismic Isolation, Energy Dissipation & Control Systems

RC: Reinforced Concrete Buildings
 RE: Repair & Retrofit of Structures & Foundations
 SR: Seismicity, Seismic Hazard Assessment, Seismic Risk
 SEP: Socio-Economic Issues, Education, & Public Policy
 SSI/SF: Soil Structure Interaction/Soils, Foundations
 ST: Steel Buildings
 TSU: Tsunami - 4th Int'l Tsunami Symposium
 WB: Wood Buildings

Sessions-at-a-Glance continued

Tuesday, July 27, 2010

Oral Sessions

| Room/Track | 8:00 - 9:40 | Room/Track | 10:10 - 11:40 |
|---------------------------------|--|--------------------------|---|
| Pier 2 & 3 <i>BR</i> | T1. Seismic Isolation of Bridges | Pier 2 & 3 <i>BR</i> | T11. Bridge Design 1 |
| Harbour C <i>BS</i> | T2. Varied Aspects of Seismic Structural Response & Behavior | Harbour C <i>BS</i> | T12. Aspects of Seismic Analysis |
| Harbour B <i>RC</i> | T3. Response of Concrete Structures 1 | Harbour B <i>RC</i> | T13. Masonry-Infilled & RC Walls |
| Harbour A <i>ST</i> | T4. Special Session: Large-Scale Testing of Steel Frame Structures | Harbour A <i>ST</i> | T14. Special Session: Steel Structures, Anchors & Stainless steel |
| Marine <i>LL</i> | T5. Pipelines, Wharfs, & Off-Shore Structures | Pier 5 <i>SSI/SF</i> | T15. Soil Stability |
| Pier 7 & 8 <i>RE</i> | T6. Retrofit of Historic Buildings & Masonry | Pier 4 <i>SEP</i> | T16. Special Session: Capacity for Seismic Risk Reduction in Developing Countries Panel |
| Queens <i>NIT</i> | T7. Seismic Analysis & System Identification | Queens <i>DAR</i> | T17. Damage Assessment Through Remote Sensing |
| Pier 4 <i>SEP</i> | T8. Special Session: Appropriate Building Technologies for Reducing Seismic Risk in Developing Countries (Panel) | Marine <i>TSU</i> | T18. 4th Int'l Tsunami Symposium: Tsunami Instrumentation & Warning System: Risk Analysis |
| Regatta <i>EX</i> | T9. Inelastic Behavior of Components & Subassemblages | Regatta <i>PPF</i> | T19. Special Session: Historical Aspects of Earthquake Engineering |
| Pier 5 <i>SR</i> | T10. Seismic Risk & Assessment | Pier 7 & 8 <i>EX</i> | T20. Special Session: Earthquake Damage & Control of Infrastructure in Urban Areas |
| Room/Track 13:30 - 15:10 | | | |
| Pier 2 & 3 <i>BR</i> | T21. Bridge Design 2 | Pier 2 & 3 <i>BR</i> | T31. Seismic Performance of Bridges 1 |
| Harbour C <i>BS</i> | T22. Loss Estimation & Other Aspects of Seismic Response | Harbour C <i>BS</i> | T32. Special Session: Seismic Design Codes in the US & Canada |
| Harbour B <i>RC</i> | T23. Response of Concrete Structures 2 | Harbour B <i>RC</i> | T33. Response of Concrete Structures 3 |
| Harbour A <i>ST</i> | T24. Experimental Evaluation of Steel Components | Harbour A <i>ST</i> | T34. Seismic Performance of Steel Components & Connections |
| Pier 5 <i>SSI/SF</i> | T25. Soil-Structure Interaction & Soil Stability | Pier 5 <i>SSI/SF</i> | T35. Soil-Foundation Interaction |
| Queens <i>NIT</i> | T26. Special Session: Recent Advances in Hybrid Simulation | Queens <i>EX</i> | T36. Experimental Methods |
| Regatta <i>SEP</i> | T27. Special Session: Seismic Risk Assessment & Management of Civil Infrastructure 1 | Regatta <i>SEP</i> | T37. Special Session: Seismic Risk Assessment & Management of Civil Infrastructure 2 |
| Pier 4 <i>PS</i> | T28. Isolated Systems | Pier 4 <i>PS</i> | T38. Seismic Design with Supplemental Damping Systems |
| Pier 7 & 8 <i>SR</i> | T29. Seismic Hazards 1: A Global Overview | Marine <i>PER/SEP</i> | T39. Special Session: Using Technology to Influence Individual, Social, Organizational, & Community Behavior before & after an Earthquake (Panel) |
| Marine <i>TSU</i> | T30. 4th Int'l Tsunami Symposium: Tsunami Engineering: Experimental Modeling | Pier 7 & 8 <i>SR</i> | T40. Seismic Hazards 2: Evaluation of Methodologies |

| Poster Session 15:10 - 16:10 <i>Frontenac Room</i> | | | |
|---|---|---------------|---|
| <i>LL</i> | Lifelines | <i>SSI/SF</i> | Soils, Foundations, Soil-Structure Interaction & Soil Stability |
| <i>LL</i> | Dams & Ports | <i>EX/NIT</i> | Experimental Methods, Information Technology, & Collaborative Tools |
| <i>RE</i> | Repair & Retrofit of Structures & Foundations | <i>NIT</i> | Numerical Research |

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NS: Non-Structural Components
NIT: Numerical Research, Information Technology, & Collaborative Tools
PPF: Past, Present, & Future Overview
PER: Post-Earthquake Response
PS: Protective Systems, Seismic Isolation, Energy Dissipation & Control Systems

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RE: Repair & Retrofit of Structures & Foundations
SR: Seismicity, Seismic Hazard Assessment, Seismic Risk
SEP: Socio-Economic Issues, Education, & Public Policy
SSI/SF: Soil Structure Interaction/Soils, Foundations
ST: Steel Buildings
TSU: Tsunami - 4th Int'l Tsunami Symposium
WB: Wood Buildings



Wednesday, July 28, 2010

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|---|--|
| Plenary Session 8:00–9:30 Metro Centre-East | |
| THE HAITI AND CHILE EARTHQUAKES OF 2010 | |
| Haiti: Relationship between Geotechnical Conditions and Damage Patterns | Performance of Buildings in the Haiti Earthquake |
| Chile: Geo-Engineering Reconnaissance | Performance of Buildings in the Chile Earthquake |
| Social and Economic Challenges for Recovery in Haiti | Ground Shaking from the Chile Earthquake: Applications to Cascadia |

Oral Sessions

| Room/Track | 10:00 - 11:40 | Room/Track | 13:00 - 14:40 | Room/Track | 15:40 - 17:20 |
|-------------------|--|-------------------|--|--------------------|---|
| Metro Centre BR | W1. Seismic Performance of Bridges 2 | Metro Centre BR | W11. Seismic Performance of Bridges 3 | Metro Centre BR | W22. Seismic Performance of Bridges 4 |
| Harbour C BS | W2. Special Session: Evaluation of Collapse Performance — Example Applications of FEMA P695 (ATC-63) Methodology | Harbour B RC | *W13. Special Session: RC Wall Systems — State of Art & Practice Part II: Low-Rise Wall & Coupling Beam Testing & Modeling | Harbour A ST | W23. Numerical Modeling of the Seismic Behavior of Steel Components & Systems |
| Harbour B RC | W3. Special Session: RC Wall Systems - State of Art & Practice Part I: Slender Wall Testing & Modeling | Harbour A ST | W14. Seismic Performance of Systems | Pier 5 MA | W24. Seismic Analysis & Performance of Masonry |
| Harbour A ST | W4. Seismic Design & Performance of Steel Structures | Pier 4 PER/SEP | W15. Special Session: Scenarios with Planning, Response, & Recovery | Pier 4 SSI-SF | W25. Special Session: Soil-Structure-Engineering Interaction |
| Pier 2 & 3 SSI-SF | W5. Special Session: Soil Liquefaction | Regatta NS | W16. Special Session: Seismic Risk Reduction of Nonstructural Building Components 1 | Regatta NS | W26. Special Session: Seismic Risk Reduction of Nonstructural Building Components 2 |
| Pier 5 SEP | W6. Socio-Economic Issues of Public & Commercial Buildings | Pier 5 SEP | W17. Social Scientific Perspectives on Seismic Awareness & Risk Management | Harbour B RC | W27. Special Session: Mitigating Risk Due to Older Concrete Buildings |
| Metro East PS | W7. Metallic Yielding Damping Systems | Metro East PS | W18. Advanced Damping Systems I | Metro East PS | W28. Advanced Damping Systems II |
| Regatta MH | W8. Earthquake & Multihazard Design | Pier 2 & 3 MH | W19. Special Session: SMIS/EERI Workshop on Hospitals & Natural Hazards | Marine DAR | W29. Damage Assessment & Repair of Buildings |
| Pier 4 GM | W9. Near Fault Effects | Harbour C GM | W20. Strong Motion Data & Use | Pier 2 & 3 PER/SEP | W30. Post-Earthquake Response & Preparedness & Education |
| Marine TSU | W10. 4th Int'l Tsunami Symposium: Chile & Haiti Earthquake Tsunami Impacts & Numerical Modeling | Marine TSU | W21. 4th Int'l Tsunami Symposium: Tsunami Preparedness - Numerical Modeling | Harbour C GM | W31. Ground Motion Parameters |

*W12 CANCELLED

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| Poster Session 14:40 – 15:40 Frontenac Room | |
| MH | Earthquake and Multiple Hazard Design |
| RC | Reinforced Concrete Buildings |
| MA | Performance of Masonry |
| NS | Nonstructural Building Components |
| BS | Seismic Design Codes and Criteria |
| GM | Ground Motion and Seismicity |
| SR | Seismic Hazard Assessment and Seismic Risk |
| EX | Experimental Research |
| NIT | Hybrid Simulation |

Thursday, July 29, 2010 Oral Sessions

| Room/Track | 8:00 - 9:40 |
|-------------------|---|
| Metro Centre/BR | Th1. Seismic Performance of Bridges 5 |
| Harbour A/ST | Th2. Performance-Based Plastic Design |
| Pier 5/MA | Th3. Seismic Vulnerability of Masonry Structures |
| Pier 4/SSI-SF | Th4. Soils, Foundation and Stability |
| Metro East/NIT | Th5. Seismic Analysis of Concrete Structures |
| Regatta/NS | Th6. Seismic Risk Reduction of Nonstructural Building Components 3 |
| Harbour B/RC | Th7. Special Session: Mitigating Risk Due to Older Concrete Buildings Panel |
| Pier 2 & 3/DAR | Th8. Structural Health Monitoring |
| Harbour C/GM | Th9. Shaking and Damage |

Closing Plenary Session 10:10–12:30 Metro Centre-East