

# Presentation Schedule

<b>Day 1: Thursday, August 13, 2009</b>	
8:00-8:30 Workshop registration - NCSA Lobby	
Plenary Session 8:30-10:00 1122 NCSA	
8:30-9:00 Welcoming remarks from Amr Elnashai	
9:00-9:30 Keynote Lecture I - Professor Stephen Mahin (Chair: S.C. Liu)	
<b>“New Design Approaches to Improve Earthquake Resiliency and Sustainability”</b>	
9:30-10:00 Keynote Lecture II - Professor Keh-Chyuan Tsai (Chair: B.F. Spencer)	
<b>“Seismic Experiment and FE Analysis of Full-Scale Steel Concentrically Braced Frames”</b>	
10:00-10:30 Tea/Coffee Break and Group Photo - NCSA Lobby	
<div style="text-align: center; margin-bottom: 10px;">           10:30-12:45            1040 NCSA         </div> <p style="text-align: center;"><b>Session I-A – Chair A. Elghazouli The Wenchuan Earthquake</b></p> <p>“Assessment of School Building Damage in Wenchuan Earthquake” Shi Tiehua, Cheng Shaoge, Wu Lihua and Shi Hailiang</p> <p>“How Bridges Responded to the May 12, 2008, Wenchuan Earthquake in China” G.D. Chen, P.W. Yen, M. Yashinsky, Y. Hashash, C. Holub, K.H. Wang and X.D. Guo</p> <p>“Analysis of Damage to Staircase in Wenchuan Earthquake” B.J. Yin, S.G. Cheng and S.Y. Shen</p> <p>“Review and Verification of Chinese Code for Seismic Design from Damage of Buildings During Wenchuan Earthquake” Li Ying-Min, Liu Li-Ping, Ji Shu-Yan, Han Jun and Tian Qi-Xiang</p>	<div style="text-align: center; margin-bottom: 10px;">           10:30-11:45            2405 Siebel         </div> <p style="text-align: center;"><b>Session I-B – Chair N. Nakata Hybrid Testing</b></p> <p>“Hybrid Test Method Based on Component Modes Synthesis” S.G. Cheng, T.H. Shi, L. Ma and J. Qi</p> <p>“Application of Hybrid Testing to Dynamic Soil-Structure Interaction Problems” S.B. Lee, M.W. Chang, J.N. Song, H.S. Lee and J.K. Kim</p> <p>“Optimization of Simulation Time Step for Distributed Hybrid Testing between University of California – Berkeley and University of Auckland” C. A. Whyte, L. Wotherspoon, H. Kim, B. Stojadinovic and Q. Ma</p>

<p>“PGA Field of the Great Wenchuan Earthquake Mw 8.0 Forecasted from a Hybrid Source Model” X. Tao H. Liu X. Sun T. Liu P. Li and Z. Zhou</p> <p>“Data Processing and Analysis of Strong Motion Records from the Ms8.0 Wenchuan, China Earthquake” Haiying Yu, Dong Wang, Yongqiang Yang, Wenxiang Jiang, Quancai Xie and Xiang Cheng</p>	
<p>1:00-2:30 Lunch - NCSA Lobby</p>	
<p style="text-align: center;">2:30-4:00 1040 NCSA</p> <p style="text-align: center;"><b>Session II-A – Chair G. Chen Case Studies</b></p> <p>“Estimation of Ground Motion and Seismic Response of RC Buildings Damaged in the 2008 Iwate-Miyagi Nairiku Earthquake” K. Mitsuji, M. Maeda, H. Nakagami and K. Matsukawa</p> <p>“Three-Dimensional Post-Earthquake Analysis of a RC Building Damaged by 2007 Pisco-Chincha Earthquake” O. Kwon and E. Kim</p> <p>“Seismic Vulnerability of Typical Bridges Located in Mexico” B.A. Olmos and J.M. Jara</p> <p>“Development of Rapid Seismic Assessment Tools for Infrastructure Components in Mid-America” Fikri Acar and Amr S. Elnashai</p>	<p style="text-align: center;">2:30-4:00 2405 Siebel</p> <p style="text-align: center;"><b>Session II-B – Chair A.S. Elnashai Geotechnical Earthquake Engineering</b></p> <p>“Calibration of a Dynamic Model for Yuracmayo Earth Dam” J.L. Macedo, J.A. Zuta, and Z. Aguilar</p> <p>“Dam-Reservoir-Massed Foundation System and Traveling Wave Along Reservoir Bottom” H. Mirzabozorg, M. Varmazyari and M. Ghaemian</p> <p>“Effect of Depth of Ground Water Table on the Surface Response of Sand Deposits Under Seismic Conditions” S.U. Dikmen and J. Ghaboussi</p>
<p>4:00-4:15 Tea/Coffee Break - NCSA Lobby</p>	

<p style="text-align: center;">4:15-5:45 1040 NCSA</p> <p style="text-align: center;"><b>Session III-A – Chair O-S. Kwon Masonry Structures</b></p> <p>“Characterization of Nailed Connections for the Seismic Assessment of Timber Diaphragms in Unreinforced Masonry Buildings” A.W. Wilson, F.L. Moon, P.J.H. Quenneville and J.M. Ingham</p> <p>“Cyclic Testing of Full-Scale Un-Reinforced Brick Masonry Wall Before and After Retrofitting” Z. Hussain, M. Ashraf, A. Naseer, A.N. Khan and Q. Ali</p> <p>“Seismic Retrofit of Unreinforced Masonry Walls Using Steel Reinforced Polymer Grout: Experimental and Numerical Analysis” R.M. Hu, A.Q. Li and H. Wang</p> <p>“Comparative Study on Seismic Performance of Confined Masonry Building Under Near-Fault Ground Motions of the Wenchuan Earthquake” Li-Hong Xiong and Z.H. Xiong</p> <p>“Vulnerability Assessment of Existing Masonry Buildings in Moderate Seismicity Areas Using Experimental Techniques” C. Michel, E. Lattion, M. Oropeza and P. Lestuzzi</p>	<p style="text-align: center;">4:15-5:45 2405 Siebel</p> <p style="text-align: center;"><b>Session III-B – Chair L. Bergman Structural Control</b></p> <p>“Analytical Study on Response of Elastic Sliding Isolation System and Effect of Using Variable Fluid Damper” S.M. Dehghan B., N. Hori and N. Inoue</p> <p>“Hysteresis Identification for a Nonlinear Structure with MR Dampers” B. Xu, J. He, R. Zhou and S.F. Masri</p> <p>“Development and Testing of Dissipative Anchor Devices for the Seismic Protection of Heritage Buildings” S. Paganoni and D.F. D’Ayala</p> <p>“Static-Dynamic Analytical Method in Energy-Dissipated Design of High-Rise Seismic-Wall Structures” Huang Rui-Xin and Li Ai-Qun</p> <p>“Three-Dimensional Hybrid Platform for Vibration Control Against Earthquakes and Microvibration” X.J. Hong, S. Zhu and Y.L. Xu</p>
<p>5:45-6:25 Tour of NEES@Illinois Simulation Facility - G. Pluta (NEES Operations Manager)</p>	
<p>6:25-7:00 Tour of Smart Structures Technology Lab - B.F. Spencer (SSTL/Newmark Lab Director)</p>	
<p>7:00 Conference Dinner - Newmark Civil Engineering Laboratory (Crane Bay)</p> <p style="text-align: center;">Comments by ANCER President A.S. Elnashai and ANCER Advisor S.C. Liu</p>	

## Day 2: Friday, August 14, 2009

8:30-10:30  
1040 NCSA

### Session IV-A – Chair S. Mahin Reinforced Concrete Structures

“Seismic Behavior of RC Columns with Corroded Deformed Reinforcing Bars”

C. Goksu, E. Binbir, A. Ilki and N. Kumbasar

“Cyclic Response of Rectangular Reinforced Concrete Columns with Nonseismic Detailing”

W.Y.M. Chung, E.S.S. Lam, B. Wu, Y.L. Wong and I.F.Y. Ho

“Analytical Modeling of Engineered Cementitious Composite Members”

B. Gencturk and A. S. Elnashai

“Influence of Shear Walls on Seismic Performance of Low-and Mid-Rise Ordinary Concrete Buildings–A Case Study”

F. Acar

“Considerations on Strength and Ductility of RC Members with Low Strength Concrete”

M. Neguchi and K. Minami

8:30-10:30  
2405 Siebel

### Session IV-B – Chair Y-L. Xu Engineering Seismology

“Paleo and New Earthquakes and Evaluation of North Tabriz Fault (NTF) Displacement in Relation to Recurrence Interval of Destructive Earthquakes”

Ebad Ghanbari

“Genetic Algorithm-Based Development of Ground Motion Time Histories”

S. Zhu and Y. Gao

“Disaggregation of Probabilistic Ground Motion in the Metropolitan Tehran, Iran”

A. Yazdani

“TFRs of Rotational Ground Motion and Its Application”

Qi-Feng Luo and Wei Che

“Spectral Acceleration Attenuation Relationships for Peru Subduction Earthquakes”

J.A. Chávez, Z. Aguilar, J.E. Alva and F. Lázares

“The Parameters of Seismic Design Earthquake in Taipei Basin”

Yu-Wen Chang, Wen-Yu Jean, Shyh-Bin Chiou, Juin-Fu Chai and Chin-Hsiung Loh

10:30-10:45 Tea/Coffee Break - NCSA Lobby

10:45-12:45  
1040 NCSA

### Session V-A – Chair X-Z Qi Concrete and Composite Structures

“Testing and Analysis of Self-Centering Precast Concrete Walls”

R.S. Henry, J.M. Ingham and S. Sritharan

10:45-12:45  
2405 Siebel

### Session V-B – Chair G. Lee Impact Assessment

“An Integrated Earthquake Impact Assessment Framework”

J. Li, S.L. Lin, X. Zong, B.F. Spencer, A.S. Elnashai and A.K. Agrawal

<p>“The Effect of Foundation Flexibility on Response Reduction Factor of R/C Frame Structures” A.M. Halabian and M. Erfani</p> <p>“Fracture of Concrete Filled Steel Tube Frame Under Extremely Strong Ground Motion” Motoo Saisho</p> <p>“Study on Dynamic Properties for Steel-Concrete Hybrid Structure Based on the Super Element” J. Liu, X.Y. Huang, Z.H. Wu, Q.B. Wang, L. He and H.P. Pi</p> <p>“Seismic Multi-Axial Behavior of Concrete-Filled Steel Tube Beam-Columns” M.D. Denavit, J.F. Hajjar, T. Perea and R.T. Leon</p>	<p>“Seismic Strengthening Design Ground Motion Parameters for Existing Buildings with Different Importance Based on Seismic Hazard Characteristic Zone” Yuhong Ma, Guifeng Zhao, Jie Cui and Ping Tan</p> <p>“A Query in Seismic Resistance: Analysis of Traditional Construction Systems of Kullu Valley, Himalayas” Vinod R. Shah and Sachin P. Soni</p> <p>“Modeling Post-Earthquake Emergency Travel Demand” L. Chang, A.S. Elnashai and B.F. Spencer</p>
<p>1:00-2:30 Lunch - NCSA Lobby</p>	
<p style="text-align: center;">2:30-4:30 1040 NCSA</p> <p style="text-align: center;"><b>Session VI-A – Chair K-C Tsai Steel Structures - I</b></p> <p>“A Rocking System to Re-Center Moment Frames with Weak First Story” Tao Wang, Hiroya Hanafusa and Masayoshi Nakashima</p> <p>“Analytical and Experimental Investigations on the Restrained Steel Plate Shear Wall” Chao-Hsien Li, Keh-Chyuan Tsai and Chih-Han Lin</p> <p>“Behavior of Steel Moment Resisting Frames Designed by Korean Building Code 2005” Taewan Kim</p> <p>“Evaluation of Plastic Energy Dissipation Capacity of Steel Beams Under Monotonic Loading” Yu Jiao, Yuko Shimada, Shoichi Kishiki and Satoshi Yamada</p> <p>“Experimental Study of a New Type Buckling-Restrained Brace” S.G. Cheng, X.X. Kong and K.H. Luo</p>	<p style="text-align: center;">2:30-4:30 2405 Siebel</p> <p style="text-align: center;"><b>Session VI-B – Chair J-K Kim Structural Earthquake Engineering I</b></p> <p>“Stochastic Damage Detection Method for Building Structures of Random Parameters” J. Zhang and Y.L. Xu</p> <p>“Acceleration-Based Dynamic Structural Displacement Monitoring Using Frequency Domain Identification Techniques” Narutoshi Nakata</p> <p>“A Software Framework for Quasi-Static Structural Testing Application” K.J. Wang, C.S. Chen and K.C. Tsai</p> <p>“FAST Simulation of Seismic Wind Turbine Response” I. Prowell, A. Elgamal and J. Jonkman</p>

4:30-4:45 Tea/Coffee Break - NCSA Lobby

4:45-5:45  
1040 NCSA

**Session VII-A – Chair L. Fahnestock  
Steel Structures II**

“Hysteresis Response of End of Bottom Column in Self-Centering R/C Frame”

W. Li and F. Esaki

“Influence of Secondary Lateral Resisting Systems on the Inelastic Seismic Performance of Steel Framed Structures”

C. Málaga-Chuquitaype and A.Y. Elghazouli

“Seismic Protection of Seismically Excited Eccentric Steel Structures Through Targeted Energy Transfer”

C. Tripepi, F. Nucera, A. Vakakis, L. Bergman and D.M. McFarland

4:45-5:45  
2405 Siebel

**Session VII-B – Chair T. Wenk  
Structural Earthquake Engineering II**

“Effect of Lateral Load Pattern on Pushover Analysis Considering Site Response Spectra and Time History”

Prakash K. Siyani and Paresh V. Patel

“Evaluation the Demand Modifire Factor Recomended in FEMA356 for Concrete Moment Resisting Frames”

F. Rahimzadeh Rofooei and M.R. Malek Mohammad

“Seismic Failure Modes and Strengthening Methods of Existing Buildings in an Oil Refinery Complex in Iran”

N.A. Hosseinzadeh

5:45-6:15 NCSA Tour, meet in NCSA Lobby

6:15 Workshop Adjourns

6:30 (Board Members Only) ANCER Board Meeting and Dinner - Kennedy’s at Stone Creek