



SPECIAL SESSION: **SS-3**

SEISMIC STRUCTURAL HEALTH MONITORING AND REAL-TIME DATA BROADCASTING

Chair:

A. Mark Sereci, amsereci@digitexx.com

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Reviewer:

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The special session will feature presentations of monitoring projects in the US, Canada, Chile and Macedonia. Topics will cover buildings, bridges, and 3D Dense Array in Ohrid, Macedonia. About 8 invited contributors will present the state-of-the-art in the field as well as the data from their installations available on the Internet in real time. A live demonstration is planned of the 3D Ohrid array.

Date, place and the time of the session will be announced in the Conference Programme.

PROGRAMME:

Introduction: Dr. Farzad Naeim, Jon A. Martin Asscs., Los Angeles, California USA

Dr. Rubén Boroschek Krauskopf, Professor University of Chile, Santiago, Chile

- Maule M8.8 Earthquake, Chile, its effects on modern structures and lessons learned
- Structural Health Monitoring efforts in Chile

Dr. Mehmet Celebi, USGS Menlo Park, California USA

- Real-time systems and needs in US and elsewhere
- Recent Earthquake Data Analysis work, Building in Vina del Mar, Chile

Dr. James Brownjohn, Professor, University of Sheffield, UK

- Structural Health Monitoring – A prospective on this new paradigm and the benefits
- Monitoring projects and Structural Integrity/performance Assessment Algorithms

Dr. Carlos Ventura, Professor University of British Columbia, Canada

- Structural Health Monitoring for large and small bridges, MOT BC Program, Canada
- Major Bridge Monitoring Project in Vancouver, British Columbia Canada

Dr. Zoran Milutinovic, Professor, IZiIS Skopje, Macedonia

- The 3D Strong Motion Array, Ohrid Lake Macedonia
- Local site condition modifying EQ Ground Motions and soil flexibility on structural dynamic response
- Live Demonstration of the Array, Data Streaming via the Internet

Dr. Mihail Garevski, Professor, IZiIS Skopje, Macedonia

- Definition of Dynamic Characteristics of Reinforced Concrete Building in Viña Del Mar, Chile, Using Low Intensity Ground Shaking Records

Closing Remarks: Dr. Farzad Naeim

Reception: **Macedonian food and wine**