



# 5th

DECEMBER 11 - 15

## INTERNATIONAL CONFERENCE ON STRUCTURAL HEALTH MONITORING OF INTELLIGENT INFRASTRUCTURE

Cancún, México 2011

## FINAL ANNOUNCEMENT

The Fifth International Conference on Structural Health Monitoring of Intelligent Infrastructure, SHMII-5 2011, will provide a unique opportunity for scientists, practitioners, and enterprises from around the world to share and discuss the latest knowledge and techniques for structural health monitoring of intelligent infrastructure. It is the aim of the conference to bring together, and enhance dialogue among, worldwide professionals from the broad range of disciplines, such as smart sensors, wireless sensor networks, signal acquisition and processing, and real-time data transferring and management. Emphasis will be given to bring the interested community from Latin America and to foster international cooperation.

### TOPICS

The technical sessions of the Conference would cover the following topics:

- Smart and other advanced sensors
- Wireless and other advanced sensor networks
- Data acquisition, processing and management
- Damage identification and localization
- Model updating, safety evaluation and reliability forecast
- Damage control, repair and strengthening
- Life-cycle performance-based design
- Smart materials and structures
- Global positioning system (GPS) and related systems for wind and earthquake hazard mitigation of civil infrastructure
- Remote monitoring systems
- Integrated systems and implementations of SHM
- Design guidelines and codes of SHM
- Standardization of SHM systems
- Critical issues for SHM

### KEYNOTE LECTURES

- **Interpretation of Corrosion Monitoring from Embedded Sensors**  
Carmen Andrade  
*Research Professor of the National Research Council of Spain (CSIC) at the Institute of Construction Science "Eduardo Torroja" (IETcc), Spain*
- **Cost-Benefits Analysis in SHM Projects**  
Daniele Inaudi  
*Chief Technology Officer, RocTest Group, Switzerland*
- **Structural Health Monitoring by Smart Technical Textiles based on Fiber Optic Sensors**  
Katerina Krebber  
*BAM Federal Institute for Materials Research and Testing, Germany*
- **Research and Practice on Structural Health Evaluation of Ancient Stone Masonry Buildings in Mexico**  
Roberto Meli Piralla  
*Emeritus Professor at the Instituto de Ingeniería, UNAM, Mexico*
- **Out of the Lab, into the Field: Integrating Modern SHM Systems on Real-World Structures**  
David Potter  
*Principal Market Development Manager for Structural and Physical Test with National Instruments, USA*
- **The Amazing Versatility of Fibre Bragg Grating Sensors for Infrastructure Monitoring**  
Hwayaw Tam  
*Director of Photonics Research Centre, Department of Electrical Engineering, The Hong Kong Polytechnic University, Hong Kong SAR*

### SHORT COURSE ON SHM AND INSTRUCTIONAL WORKSHOP: Optical Fiber Bragg Grating Sensing Technology for Structural Health Monitoring

This workshop is the hands-on, experimental portion of the short course. This workshop will review the use and application of FBG sensors for strain & stress, acceleration, displacement, temperature and other parameters is made, along with discussions on sensor placement & installation, data analysis and interpretation. To reinforce the theoretical concepts and illustrate the practical aspects of the technology, a number of hands-on demonstrations of FBG sensors and instruments will be made.

#### Course level:

Introductory to intermediate

#### Instructors:



Daniele Inaudi  
Chief Technology Officer RocTest Group



Branco Glišić  
Professor, Princeton University



Alexis Méndez  
President of MCH Engineering LLC



William Keith Chandler  
Founder and President of Chandler Monitoring Systems Inc.

#### Workshop fee:

Regular participant \$265 USD  
Student \$ 85 USD

The fee includes lunch and materials for the workshop

### VENUE

SHMII-5 will be held at the Ritz-Carlton Cancún hotel, an exclusive resort in the heart of the Cancún Hotel Zone and among the most luxurious hotels in the area. This first-class hotel is just 15 minutes from Cancún's International Airport and 5 minutes from the city's most popular areas for shopping, dining and nightlife.

### REGISTRATION FEE

The registration fee includes one copy of the proceedings, welcoming reception, lunches and banquet. Fees in US dollars include all taxes.

	Before October 15, 2011	After October 15, 2011
Non-member of ISHMII (Includes a one-year ISHMII membership*)	\$900	\$1015
Full ISHMII member	\$800	\$900
Students with a valid student ID	\$380	\$570
Accompanying Person	\$179	

Conference fees could be paid by PayPal and Bank Transfer. An additional processing fee might be required for bank transfers.

www.shmii.unam.mx

