

### Key dates

Submission of Papers: 1 September 2010  
Paper Acceptance Notification: 15 October 2010  
Submission of Final Revised Papers: 15 November 2010  
Early Registration: 30 October 2010  
Conference: 8 -10 February 2011  
The official language of the conference is English

### Sponsors

Local and international companies and institutions providing sensors, monitoring systems, FRP composites and other materials and systems for structural rehabilitation.

### Exhibition

Manufacturers and exhibitors in the field of smart monitoring, assessment and rehabilitation of Civil Structures are invited to reserve their stands at the conference

### Registration Fee

Early Registration: 550 USD, and 200 USD for students  
Registration after 30.10 2010: 650 USD, and 250 USD for students  
Accompanying person registration: 250 USD  
Conference Dinner 9.2.2011  
at the Atlantis Hotel Dubai 110 USD

Accommodations see: [smar.empa.ch/venue: accommodations](http://smar.empa.ch/venue:accommodations)

### Scientific Tours

Visiting prestigious structures in UAE such as the Burj Khalifa tower with a height of 828 m,  
Registration at the conference desk at SMAR 2011

### Conference Secretary

Ms Bernadette Havranek  
Empa Switzerland  
Structural Engineering Research Laboratory  
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Email: [smar@empa.ch](mailto:smar@empa.ch)

**Conference website:**

[smar.empa.ch](http://smar.empa.ch)

## Invitation to Conference

# SMAR 2011 Dubai



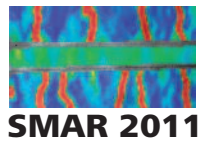
**First Middle East Conference on Smart Monitoring,  
Assessment and Rehabilitation of Civil Structures**

**SMAR 2011, Dubai UAE**

**8 – 10 February 2011**

American University in Dubai (AUD)

**Conference website: [smar.empa.ch](http://smar.empa.ch)**



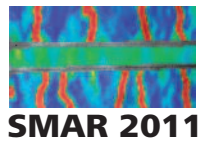
## Scope

The International Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, SMAR 2011, will provide a forum for international scientists, engineers, enterprisers and infrastructure managers to present and discuss the state-of-the-practice and recent advances in testing and monitoring technology, in structural modelling and assessment methods, and in the application of advanced materials for structural rehabilitation. The conference will provide a platform for exploring the potential of international cooperation.

SMAR 2011 is the first conference located in the Middle East sponsored jointly by the International Society for Structural Health Monitoring of Intelligent Infrastructure (ISHMII) and International Institute of FRP in Construction (IIFC).

## Topics

- Smart sensors
- Wireless sensor networks
- Implementation of structural monitoring
- Monitoring of off-shore structures and oil pipelines
- Monitoring of high rise buildings and bridges
- Advanced inspection and testing
- System identification and model updating
- Performance and damage assessment
- Safety evaluation and reliability forecast
- Damage control, repair and strengthening
- External strengthening using FRP composites
- Structural health monitoring
- Strengthening of concrete, timber and steel structures
- Strengthening of masonry and historic structures
- Confinement of concrete columns
- Near surface mounting reinforcement
- Seismic Retrofitting
- Durability of FRP strengthened systems as related to harsh environments
- Fire protection for FRP strengthening systems
- Practical applications and case studies
- Visionary Concepts



**City, Country:** Dubai, United Arab Emirates  
**Time:** 8 – 10 February 2011  
**Venue:** American University in Dubai (AUD)

## Conference Chair:

Professor Masoud Motavalli (Empa, Switzerland)

## Conference Co-Chairs:

Professor Farhad Ansari (President ISHMII)  
Professor Lawrence C. Bank (President IIFC)  
Professor Urs Meier (Empa, Switzerland)

## Local Organisation Committee (LOC)

LOC Chair:  
Professor Elias Saqan, American University in Dubai (AUD)  
LOC Co-Chairs:  
Professor Ashraf Biddah, United Arab Emirates University in Al Ain (UAEU)  
Siamak Kia, IBM Middle East, Dubai  
Dr Mohamad Nagi, AUD  
Dr Rami Hawileh, AUS

## International Scientific Committee

Council members of ISHMII and IIFC and others, see website [smar.empa.ch](http://smar.empa.ch)

## Keynote Lectures

Ahmad Abdelrazaq, Executive Vice President, Samsung C&T KR  
Dr Chris J. Burgoyne, Head of Structures Group, Univ. of Cambridge, UK  
Peter Emmons, CEO of structural group, US  
Dr Glauco Feltrin, Deputy Structural Engineering Laboratory, Empa CH  
Dr R.K. Khandal, Director, Shriram Institute, Delhi, IN  
Professor Ali Maher, Director CAIT / Rutgers CA