

# EMI 2013 Conference

## VENUE

The EMI 2013 conference will be held in Evanston (IL), north of Chicago. Evanston is conveniently located about 40 minutes from O'Hare airport by taxi, bus, or car. Evanston combines the amenities of a vibrant small city and college town offering exciting cultural and entertainment events. Downtown Evanston is a short walk from Northwestern's lakefront campus as well as beautiful beaches and parks. There are many restaurants in Evanston representing culinary traditions from around the world.



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## PAST CONFERENCES

**Engineering Mechanics Institute 2011**  
Northeastern University, Boston, MA  
<http://www.northeastern.edu/emi2011/>

**2012 Joint Conference of the  
Engineering Mechanics Institute and  
the 11th ASCE Joint Speciality  
Conference on Probabilistic  
Mechanics and Structural Reliability**  
University Notre Dame, Indiana  
<http://emipmc12.nd.edu/>

Hosted by the Civil & Environmental and  
Mechanical Engineering Departments and the  
Theoretical & Applied Mechanics Program

**McCormick**

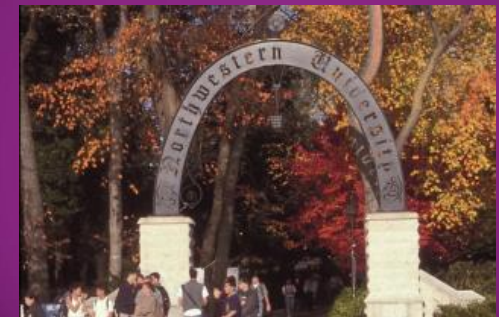
Northwestern Engineering

**2013 Conference of  
the ASCE  
Engineering  
Mechanics Institute**

**August 4 – 7, 2013**

Northwestern University  
Evanston, IL

*Mechanics for Sustainable  
and Resilient Infrastructures*



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## OBJECTIVE

Infrastructure Sustainability and Resiliency are two fundamental issues at the forefront of modern engineering. This conference will serve as a forum to exchange ideas, assess the state-of-art, and offer a future outlook on how Engineering Mechanics can contribute to the development of more resilient and more sustainable infrastructures. The technical sessions and mini-symposia will also point out the need for cross-disciplinary research and education and will highlight the role of Engineering Mechanics as a powerful link across different disciplines.

## KEY DATES

- ❖ MINI-SYMPOSIUM PROPOSAL DEADLINE: **January 1, 2013**
- ❖ ABSTRACT SUBMISSION DEADLINE: **February 1, 2013**
- ❖ NOTIFICATION OF ABSTRACT ACCEPTANCE: **March 1, 2013**
- ❖ EARLY BIRD REGISTRATION DEADLINE: **June 1, 2013**
- ❖ ONLINE REGISTRATION DEADLINE: **July 1, 2013**



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## TOPICS

- ❖ Solid and Fluid Mechanics
- ❖ Experimental, Theoretical, Applied and Computational Mechanics
- ❖ Mechanics of Materials; Fracture; Fatigue; Crack Initiation and Propagation; Damage Mechanics
- ❖ Dynamics & Wave Propagation; Chaos
- ❖ Biomechanics; Bioinspired Materials and Structures
- ❖ Non-destructive Evaluation; Structural Health Monitoring; Signal Processing; Sensors
- ❖ High Performance Materials; Smart Materials; Smart Structures
- ❖ Fluid-Structure Interaction
- ❖ Mechanics and Dynamics of Geomaterials
- ❖ Multiple Length & Time Scale Mechanics
- ❖ Probabilistic Mechanics; Reliability Methods
- ❖ Multiphysics Problems
- ❖ Large-Scale Computational Simulation; Parallel and Distributed Simulations; Cloud Computing
- ❖ Infrastructure Aging and Deterioration
- ❖ Engineering Mechanics Education

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## CALL FOR ABSTRACTS AND MINI-SYMPOSIA

For abstract submission and symposium proposals, visit the conference website at [www.EMI2013.northwestern.edu](http://www.EMI2013.northwestern.edu) Organization of Mini-Symposia focusing on specific topics relevant to infrastructure sustainability and resiliency or celebrating individuals who made a long standing impact in this field, are particularly encouraged. Preliminary discussion of mini-symposium proposals with the conference chair is recommended.

## CONTACTS

**Chair: Prof. Gianluca Cusatis**  
**Secretariat: Ms. Jennie D. Edelstein**

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