

## Submission Requirements

You are invited to submit abstracts for workshops, sessions, or papers for the **5th Congress on Forensic Engineering**. Session proposals should be consistent with the conference topics listed in this announcement. Session proposals and paper abstracts should be no more than one printed page per abstract and can be submitted at: [asce.org/conferences/forensic09](http://asce.org/conferences/forensic09)

**Acceptable formats include, but are not limited to:**

- **Standard moderated speaker sessions (usually 3-4 presentations per session)**
- **Panel discussion sessions**

**Session proposals** should include the session title, session abstract, name of the proposed session chair and contact information, including an email address.

**Paper Abstracts** should include names, titles, credentials, and affiliations of authors and coauthors. The complete mailing address, telephone, and email address of the primary author also should be included. Any special comments, such as session, track, or topic for which the paper is best suited, should be written at the bottom of the abstract page.

**Expenses** All expenses related to preparing and presenting the papers, including camera-ready manuscripts and illustrations, are the responsibility of the authors and coauthors.

**Proceedings** Accepted papers will be collected in a printed and bound proceedings. Only full papers will be considered for publication. Papers must conform to the format for ASCE Conference Book Proceedings: <http://www.pubs.asce.org/authors/BookProceedings.html>

## KEY DATES

**Abstracts/Sessions Proposals Due - November 21, 2008**

**Notice of Acceptance - December 19, 2008**

**Draft Papers due - March 11, 2009**

**Comments to Authors - May 15, 2009**

**Final papers due - July 15, 2009**

## Destination: Washington, DC



Washington, DC offers a wealth of cultural and historical treasures as well as a window into the workings of the American government. The Smithsonian Institution, the largest museum complex in the world, is walking distance from the conference site, as well as many of DC's famous monuments and memorials. The shops and restaurants of Georgetown and many other eclectic neighborhoods are also within a short distance. The efficient Metro system provides easy access throughout the city.

## The National Building Museum



The setting for our keynote address, the National Building Museum was designed by U.S. Quartermaster General Montgomery Meigs in the 1870s. During the Civil War General Meigs became one of Lincoln's most trusted advisors, and his service was essential to the success of the field commanders. Originally designed as the Pension Building, the museum is now America's premier cultural institution dedicated to exploring and celebrating architecture, design, engineering, construction, and urban planning. Be sure to make time for the excellent exhibits and bookstore.

5th Congress on

# Forensic Engineering

November 10-15, 2009  
Washington, DC

**Announcement /  
Call for Sessions  
& Abstracts**



Presented by the Technical Council on Forensic Engineering

**ASCE**<sup>®</sup>  
American Society of Civil Engineers

**Cooperating ASCE Organizations:**  
Technical Council on Wind Engineering  
Architectural Engineering Institute  
History and Heritage Committee  
National Capital Section



**Cooperating International Organizations**  
Institution of Civil Engineers (UK)  
ACI India Chapter

5<sup>th</sup> Congress on

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ASCE's Technical Council on Forensic Engineering welcomes your input on topics, tracks, short courses, or special symposia.

Every year, structures and other engineered facilities suffer damage and performance problems because of natural and man-made disasters, unanticipated loading

conditions, poor design, lack of maintenance, and poor construction practices.

As TCFE celebrates 25 years of service, we invite the public to join us as we reflect on a quarter century of construction pathology – understanding why and how structures fail.

## Keynote Address -

**Dr. Henry Petroski**  
The National Building Museum



We are pleased to welcome and honor Dr. Henry Petroski, Ph.D., P.E., Dist. M.ASCE, NAE, Aleksandar S. Vesic Professor of Civil Engineering and Professor of History at Duke University, as our keynote speaker. Dr. Petroski's address will be held as a public event in the Great Hall of the National Building Museum.

Dr. Petroski has achieved eminence for significantly advancing the practice of civil engineering and education as a renowned educator, author, researcher, and lecturer and for his considerable published works that have increased the public's understanding of the role of the engineer, notably including *To Engineer is Human: The Role of Failure in Successful Design*. In 2008 Dr. Petroski was elected as a distinguished member of ASCE.



## Suggested Topics

### Structure

- Buildings
- Bridges
- Parking structures, stadiums, and other special purpose structures
- Temporary structures
- Industrial structures
- Progressive Collapse
- Vibration

### Failures During Construction

- Cranes
- Scaffolding
- Shoring
- Construction phase loading
- Protecting adjacent structures

### Extreme Loading

- Blast
- Impact
- Fire
- Seismic

### Building Envelope

- Façades
- Roofs
- Foundation waterproofing
- Thermal performance
- Water and moisture management
- Performance and durability of materials and systems

### Environmental

- Indoor air quality
- Mold

### Geotechnical

- Soil stability
- Foundation settlement/failure

### Professional Practice

- Ethics
- The legal arena and the role of the expert
- Working with the insurance industry
- Conducting the right investigation for your client

### Education

- Case studies in forensic engineering education
- Historical Failures
- Educators' experiences

### Forensic Investigations

- Tools and techniques (e.g. visual assessment, inspection openings, non-destructive testing, load testing, simulated weather)
- Investigation methodology and approach
- Case studies

### Repairs and Remediation

- Structural repair
- Strengthening



## Wind Engineering Track

TCFE is pleased to collaborate with ASCE's Technical Council on Wind Engineering for the Fifth Congress, and encourage papers on Forensic Wind Engineering, including the following topics:

- Hurricane and tornado and wind damage assessment
- Glazing failures due to wind, debris
- Wind-induced fatigue failures (e.g. light poles)
- Metal building roof and wall failures
- Wind-turbine failures
- Thunderstorm wind damage
- Dispersion around buildings and "sick buildings"
- Extreme bridge dynamics from wind

## Steering Committee

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