

# Calls for Papers

## Additive Manufacturing of Cement-Based Materials

**Meeting:** Technical session on “Materials Science Aspects Related to Additive Manufacturing of Cement-Based Materials” at The ACI Concrete Convention and Exposition – Fall 2018, October 14-18, 2018, in Las Vegas, NV; sponsored by ACI Committees 236, Material Science of Concrete; 238, Workability of Fresh Concrete; and 552, Cementitious Grouting.

**Solicited:** Presentations on the materials science aspects relating to digital manufacturing (three-dimensional [3-D] printing or additive manufacturing) of cement-based materials are invited. Early-age properties that are desirable for digital manufacturing, mixture designs and selection methods, printability, and quality control/characterization test methods are topics of interest. Presentations on developing novel cement-based materials using 3-D printing to provide special properties and means to architect such microstructures are also solicited.

**Requirements:** 1) presentation title; 2) author/speaker name(s), title, organization, and contact information; and 3) an abstract of up to 200 words.

**Deadline:** Abstracts are due by January 15, 2018.

**Send to:** Narayanan Neithalath, Arizona State University, e-mail: narayanan.neithalath@asu.edu; and Gaurav Sant, University of California Los Angeles, e-mail: gsant@ucla.edu.

## Seismic Analysis, Design, and Construction of Concrete Buildings and Bridges

**Meeting:** Technical sessions on “Seismic Analysis, Design, and Construction of Concrete Buildings and Bridges” at The ACI Concrete Convention and Exposition – Fall 2018, October 14-18, 2018, in Las Vegas, NV, sponsored by ACI Committees 341, Earthquake-Resistant Concrete Bridges; and 345, Concrete Bridge Construction, Maintenance, and Repair.

**Solicited:** These sessions will emphasize recent advances in the seismic analysis, design, and construction of concrete buildings and bridges. Presentations will encompass a variety of technical aspects such as the refined analysis and assessment techniques of concrete members subjected to seismic loading,

damage detection and mitigation, vulnerability identification, and strengthening of constructed structures. Both experimental and analytical investigations are of interest. The sessions will bring to light recent research findings and provide an opportunity to discuss present challenges and technical demands. Critical information will be provided to those who will lead tomorrow’s structural design and construction, including practicing engineers, government officials, and academics. An ACI Special Publication will be published.

**Requirements:** 1) presentation title; 2) author/speaker name(s), title, organization, and contact information; and 3) an abstract of up to 300 words.

**Deadlines:** Abstracts are due by January 31, 2018; final papers are due by April 30, 2018.

**Send to:** Yail Jimmy Kim, University of Colorado Denver, e-mail: jimmy.kim@ucdenver.edu; and Junwon Seo, South Dakota State University, e-mail: junwon.seo@sdstate.edu.

## Analysis and Testing for Bridge Evaluation and Design

**Meeting:** Technical session on “Advanced Analysis and Testing Methods for Concrete Bridge Evaluation and Design” at The ACI Concrete Convention and Exposition – Fall 2018, October 14-18, 2018, in Las Vegas, NV; sponsored by ACI Committee 342, Evaluation of Concrete Bridges and Bridge Elements, and Joint ACI-ASCE Committee 343, Concrete Bridge Design.

**Solicited:** Presentations are invited on state-of-the-art and emerging technologies for the strength evaluation and design of concrete bridges using advanced computational analysis and load testing methods. The following topics are considered: advanced nonlinear modeling and nonlinear finite element analysis, structural versus element rating, determination of structure-specific reliability indices, load testing beyond the service level, load testing to failure, and use of continuous monitoring for detecting anomalies.

**Requirements:** 1) presentation title; 2) author/speaker name(s), title, organization, and contact information; and 3) an abstract of up to 200 words. The Special Publication will follow the ACI Publications Policy. Authors are encouraged to consult the ACI Author Guidelines, which describe the requirements for submission of manuscripts.

**Deadlines:** Abstracts are due by February 12, 2018; final papers are due by October 31, 2018.

**Send to:** Ben Dymond, University of Minnesota – Duluth, e-mail: dymond@d.umn.edu; and Bruno Massicotte, Polytechnique Montréal, e-mail: bruno.massicotte@polymtl.ca.

### Calls for Papers: Submission Guidelines

Calls for papers should be submitted no later than 3 months prior to the deadline for abstracts. Please send meeting information, papers/presentations being solicited, abstract requirements, and deadline, along with full contact information to: Keith A. Tosolt, Managing Editor, *Concrete International*, e-mail: keith.tosolt@concrete.org. Visit [www.callforpapers.concrete.org](http://www.callforpapers.concrete.org) for more information.