

Engineering Mechanics Institute Conference 2018
May 29 – June 1, 2018 at M.I.T., Cambridge, MA

Mini-symposium 45:
Innovations and Advances in Passive Structural Control
Call For Presentations

Organizers

Prof. Nicholas Wierschem
University of Tennessee, Knoxville
Email: nwiersch@ukt.edu

Prof. P. Scott Harvey
University of Oklahoma
Email: harvey@ou.edu

Mini-symposium Abstract

While active and semi-active structural control devices have shown promise at effectively controlling the vibration of structures, the adoption of these devices in many structural applications has been slow due to the complexity of these devices, their demand for power, and a conservative construction industry. Because of this, the continued development of passive structural control devices and passive control techniques, which have seen more widespread application, is crucial. This mini-symposium focuses on recent advances and innovations related to passive structural control. Of interest are presentations related to new or improved passive control devices, such as mass dampers, base isolation systems, and supplemental damping devices, including those which utilize innovative materials, inerters, nonlinear geometry, or nonlinear materials. Furthermore, of interest are advances related to the utilization of passive devices to increase the sustainability, robustness, or resilience of structures. Additionally, advances in the optimization or implementation of passive control devices are of interest.

Submission Details

Submissions should be made directly to the conference's abstracts submission website (<https://www.openconf.org/emi2018/openconf.php>). When making a submission, be sure to choose "MS45: Innovations and Advances in Passive Structural Control" as the topic area. This conference does not require an accompanying paper. More details can be found on the conference website (<https://umi.mit.edu/EMI2018>).

Important Deadlines

Abstract Submission Deadline: January 31, 2018
Early Registration Deadline: March 16, 2018
Presenter Registration Deadline: April 15, 2018