

Adaptive and active materials: Selected papers from the ASME 2010 Conference on Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS 10) (Philadelphia, PA, USA, 28 September–1 October 2010)

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## EDITORIAL

# Adaptive and active materials: Selected papers from the ASME 2010 Conference on Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS 10) (Philadelphia, PA, USA, 28 September–1 October 2010)

**Conference General Chair****Diann Brei***University of Michigan,  
Ann Arbor, USA***Conference Technical Chair****Mary Frecker***Penn State University,  
State College, USA***Guest Editors****Zoubeida Ounaies***Penn State University,  
State College, USA***Hani Naguib***University of Toronto,  
Canada***Marc Kamlah***Forschungszentrum  
Karlsruhe, Germany***Stefan Seelecke***University of Saarland,  
Saarbrücken, Germany***Lisa Weiland***University of Pittsburgh, USA***Michael Philen***Virginia Tech, Blacksburg,  
USA*

The third annual meeting of the AMSE/AIAA Smart Materials, Adaptive Structures and Intelligent Systems Conference (SMASIS) took place in the heart of historic Philadelphia's cultural district, and included a pioneer banquet in the National Constitutional Center. The applications emphasis of the 2010 conference was reflected in keynote talks by Dr Alan Taub, vice president of General Motors global research and development, 'Smart materials in the automotive industry'; Dr Charles R Farrar, engineering institute leader at Los Alamos National Laboratory, 'Future directions for structural health monitoring of civil engineering infrastructure'; and Professor Christopher S Lynch of the University of California Los Angeles, 'Ferroelectric materials and their applications'. The SMASIS conference was divided into six technical symposia each of which included basic research, applied technological design and development, and industrial and governmental integrated system and application demonstrations.

The six symposia were:

- SYMP 1 Multifunctional Materials;
- SYMP 2 Active Materials, Mechanics and Behavior;
- SYMP 3 Modeling, Simulation and Control;
- SYMP 4 Enabling Technologies and Integrated System Design;
- SYMP 5 Structural Health Monitoring/NDE; and
- SYMP 6 Bio-inspired Smart Materials and Structures.

In addition, the conference introduced a new student and young professional development symposium.

Authors of papers in the materials areas (symposia 1, 2 and 6) were invited to write a full journal article on their presentation topic for publication in this special issue of *Smart Materials and Structures*. This set of papers demonstrates the exceptional quality and originality of the conference presentations. We are appreciative of their efforts in producing this collection of highly relevant articles on smart materials.