

## Damping and Isolation (ss04)

Part of SPIE's 10<sup>th</sup> Annual International Symposium on  
Smart Structures and Materials

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Passive vibration suppression plays a vital role in structural dynamics both in suppressing vibration and noise and in complementing active/smart structures. Passive damping and isolation can greatly decrease the size and/or power required and increase the robustness of active control systems. Active damping can be used to further suppress system response at the cost of increased complexity.

Papers are solicited in all areas of passive damping, hybrid combinations of passive and active damping and/or structural control, active damping, and related topics. Topics may include:

- passive and hybrid (active & passive) vibration suppression technologies
- active constrained-layer damping treatments
- adaptive passive vibration suppression devices
- semi-active vibration suppression
- highly damped materials and composites
- modeling, analysis, and design of concepts using
  - viscoelastic materials
  - viscous fluids
  - shape memory alloys
  - magnetics
  - piezoelectrics
  - particle damping
  - pneumatics
  - ER and MR fluids
  - hysteresis
- applications of passive, active, or hybrid damping and structural control in:
  - aerospace including inflatable satellite components
  - marine
  - civil
  - transportation
  - commercial
  - military systems
- system identification methods for highly damped structures
- optimization of passive and hybrid systems
- vibration isolation
- noise control.

**Abstract Due Date: 31 July 2002**  
**Manuscript Due Date: 3 February 2003**

# Submission of Abstracts for Smart Structures and Materials symposium

Abstract Due Date: 31 July 2002

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**Submissions imply the intent of at least one author to register, attend the symposium, and present the paper (either orally or in poster format), and submit a full-length manuscript.**

Your abstract must include all of the following:

1. **SUBMIT TO:** SS04, AGNES
2. **SUBMIT EACH ABSTRACT TO ONE CONFERENCE ONLY** Damping and Isolation (ss04)
3. **ABSTRACT TITLE**
4. **AUTHOR LISTING** (principal author first)  
For each author: First (given) name (initials not acceptable), Last (family) name, Affiliation, Mailing address, Telephone, Fax, and Email address.
5. **PRESENTATION**  
Indicate your preference for "Oral Presentation" or "Poster Presentation." Final placement is subject to chairs' discretion.
6. **BRIEF BIOGRAPHY** (principal/presenting author)  
Approximately 50 words.
7. **ABSTRACT TEXT**  
Approximately 250 words.
8. **KEYWORDS**  
List a maximum of five keywords.

## Conditions of Acceptance

- **Authors are expected to secure registration fees and travel and accommodation funding, independent of SPIE, through their sponsoring organizations before submitting abstracts.**
- Only original material should be submitted.
- Commercial papers, descriptions of papers with no research/development content, and papers where supporting data or a technical description cannot be given for proprietary reasons will not be accepted for presentation in this symposium.
- Abstracts should contain enough detail to clearly convey the approach and the results of the research.
- Government and company clearance to present and publish should be final at the time of submittal. Authors are required to warrant to SPIE in advance of publication of the Proceedings that all necessary permissions and clearances have been obtained, and that submitting authors are authorized to transfer copyright of the paper to SPIE.
- Applicants will be notified of acceptance by mail no later than 9 December 2002. Early notification of acceptance will be placed on the SPIE Web site the week of 25 November 2002 at [www.spie.org/info/ss-nde/](http://www.spie.org/info/ss-nde/)

## Paper Review

To ensure a high-quality conference, all abstracts and Proceedings of SPIE manuscripts will be reviewed by the Conference Chair/Editor for technical merit and suitability of content. Conference Chair/Editors may require manuscript revision before approving publication, and reserve the right to reject for presentation or publication any paper that does not meet content or presentation expectations. SPIE's decision on whether to publish manuscripts is final.

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