

Message from the conference Chair

Welcome to the 2010 SEM Annual Conference & Exposition on Experimental and Applied Mechanics in Indianapolis, Indiana



Dear Conference Participants -

It is with great pleasure that I welcome everyone to the 2010 SEM Annual Conference & Exposition in Indianapolis, Indiana. This year's technical program – with the general theme of “experimental mechanics of high performance systems” – was developed with many of our global partners to enable sharing of the latest advances in experimental and applied mechanics. In fact, thanks to you, there were an overwhelming number of some 550 abstracts submitted, and the accepted papers were organized into 98 Sessions. To accommodate this number of sessions the usual three-day Conference was, once again, extended to four days.

Among the many technical highlights planned for the Conference are: the 11th *International Symposium on MEMS and Nanotechnology*, the *Symposium on Time Dependent Constitutive Behavior and Failure/Fracture Processes*, as well as four tracks: *Dynamic Behavior of Materials*, *Role of Experimental Mechanics on Emerging Energy Systems and Materials*, *Application of Imaging Techniques to Mechanics of Materials and Structures*, and *Experimental and Applied Mechanics*, to provide you with plenty of

opportunity to update your technical areas of interest.

To develop this technical program we were supported by a number of volunteers, each one expert in their area. We are indebted to the many symposium, track and session organizers who spent many hours planning and organizing the Conference. Their efforts are truly appreciated. We are also deeply grateful to the Keynote speakers who have accepted the invitation to come and share with us their knowledge and experience in the future challenges they foresee in the field of experimental mechanics.

The annual **International Student Paper Competition** is always a conference highlight. The competition Chair is Prof. Mark Tuttle of the University of Washington. This year the committee has a difficult task. There were 35 abstracts submitted, from universities around the globe, for the competition. Selecting the presenters from among this group will be a difficult chore that will make the committee-deliberations very lively.

In addition to the technical paper presentations and discussions, the 2010 SEM Conference offers attendees many educational and social opportunities. The following pages will describe these events in detail.

The SEM Conference Exposition is an event of itself. Please take the time to visit the Exhibits at the Conference Monday through Wednesday. The Exposition is a showcase where leading suppliers present their latest products and services to support research, application, and education in the field of experimental mechanics.

Also, please plan to take part in the tour of The Easley Winery on Wednesday, June 9.

There are two educational opportunities available before the Conference as well. Please review the information we have here, and on the Web site, sem.org, regarding the course, *Verification and Validation of Computational Models*, and the tutorial, *Mechanics of Materials: Introduction to Strain Gages and Strain gage Application Tutorial*. Both of which will be held on Sunday, June 6.

I wish to acknowledge John Lambros, *University of Illinois at Urbana-Champaign*, Eann A. Patterson, *Michigan State University*, and the tireless SEM staff, namely Kathy Ramsay, Shari Matthews, Joni Normandin, Jen Tingets, and Tom Proulx, who worked very diligently to put together this Conference program.

Thank you for coming!!! Benefit from the Conference & Exposition as well as enjoy many activities available in Indianapolis.

See you in Indianapolis, Indiana,
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