

SEM Annual Business Meeting

Sunday, June 6, 2010, 6:30 PM

SEM members and guests are encouraged to attend the Annual Business Meeting to hear about the latest Society activities and future direction. A full report of the Officers of the Society is distributed at this meeting. Also during this meeting, 25 and 50-year SEM Members will be honored. See page 10 for a list of members who have reached these membership milestones.

Experimental Mechanics' 50 Year Celebration

Monday, June 7, 2010, 1:00 PM, Grand Hall

Celebrate Experimental Mechanics' 50th!

Please join us for a short celebration in honor of *Experimental Mechanics* Volume 50 from 1:00 to 1:30 PM on Monday, June 7, 2010. Come to the Grand Hall and join us for dessert and a brief birthday celebration.

International Student Paper Competition

Sponsored by Correlated Solutions, Inc.

Paper Competition: Monday, June 7, 2010
Sessions 7, 14, 21

Awards Presentation: Wednesday, June 9, 2010
at the All Society Awards Luncheon,
12:30 PM

The Student Paper Competitions were originated to encourage excellence in technical communication in the experimental mechanics field. A regional paper competition was initiated in 1984 in a joint effort by SEM's Milwaukee Local Section and SEM's Student Chapter of Michigan Technological University. Since that time, students from the University of Wisconsin-Madison, University of Wisconsin-Milwaukee, and Michigan Technological University have participated in the regional competition held each spring in Milwaukee at one of the regular local section meetings.

The first national competition was held during the 1991 SEM Annual Conference. The competition was sponsored by SEM's Milwaukee Local Section along with the Education and Local Sections Committees of SEM. Twelve students from nine different schools participated in the competition.

Beginning with the VIII International Congress in 1996, the Competition was sponsored by the SEM Education Foundation and expanded to include students from around the world. In 2009, Correlated Solutions, Inc. began sponsoring the competition.

The presentations are judged on the basis of technical content, organization of material, effectiveness of delivery, adherence to allotted presentation time and response to questions.

Welcome Reception

Sunday, June 6, 2010, 7:30 PM

All 2010 Conference attendees, Exhibitors, guests and students are invited to attend the Sunday evening reception for a chance to reacquaint themselves with each other, meet new people, and enjoy some refreshments. A terrific way to begin the conference!

Student Poster Session

Sponsored by Correlated Solutions, Inc.

Tuesday, June 8, 2010, 3:10 – 8:00 PM, Conference Center

This is the third year that SEM has hosted a Student Poster Session. This poster session has been developed because the response to the Student Competition Call for Papers was far larger than it had been in any of the 14 years since the Competition's inception. Specifically, 31 students submitted entries to the SEM Student Paper Competition. Unfortunately, only 15 entries can be accepted into the Competition. Most of the 31 entries were judged to be of very high quality, so this Poster Session was developed for those students whose papers were judged to be of superior quality, but did not make the top 15. Please visit this special Student Poster Session, located in the Grand Hall, to view the outstanding work of these students.

Students will be available during the Tuesday afternoon dessert break, 3:10 – 3:50 PM, in the Grand Hall to discuss their posters.

Posters will remain available for viewing through the President's Reception Tuesday evening.

Identification and Enhancement of On-stage Acoustics in a Multipurpose Auditorium, #559

C.M. Braden, Miami University

Detachment Dynamics of Cancer Cells, #569

W.C. Chung, Nanyang Technological University/Institute of Microelectronics

Determination of Objective Architectural Acoustic Quality of a Multipurpose Auditorium, #565

B.M. Hayes, Miami University

Investigation of a Force Hardening Spring System, #544

D. Prisco, University of Illinois at Urbana-Champaign

Notch-interface Experiments to Determine the Crack Initiation Loads, #543

A. Krishnan, Vanderbilt University

Mechanical Characterization of Alternating Magnetic Field Responsive Hydrogels at Micro-scale, #562

S. Meyer, Southeast Missouri State University

Resonance Behavior of Magnetostrictive Sensor in Biological Agent Detection, #547

M. Ramasamy, Auburn University

Detection of Damage Initiation and Growth of Carbon Nanotube Reinforced Epoxy Composites, #558

V.K. Vadlamani, University of Massachusetts, Dartmouth

Nano-mechanical Characterization of Polypropylene Fibers Exposed to Ultraviolet and Thermal Degradation, #552

N.D. Wanasekara, University of Massachusetts, Dartmouth

Compression Testing of Biomimetic Bones With 3D Deformation Measurements, #568

H. Yao, Southern Methodist University

Technology Application Sessions

Organized by:
J.D. Helm, *Lafayette College*; SEM Education Committee;
P.J. Gloeckner, *Cummins Technical Center*; J.L. Normandin,
SEM

Tuesday, June 8, 2010, Sessions 34 & 41

SEM is pleased to offer a session for SEM Exhibitors to present solutions to real-world engineering mechanics problems using innovative experimental instrumentation and techniques. Outcomes from the presentations offer SEM Attendees additional detail on the specific instrumentation and the latest state of the art application techniques.

Presenting Companies Include:

American Stress Technologies Inc.	LaVision, Inc.
Capacitec, Inc.	Photron USA, Inc.
Correlated Solutions, Inc.	Specialised Imaging, Inc.
Dantec Dynamics Inc.	Structural Integrity Technologies, Inc.
Hadland Imaging LLC	Trilion Quality Systems
Hysitron, Inc.	

Panel on Junior Career Development in Industry and Research Laboratories

Sponsored by the SEM Research Committee

Organized by:
E.N. Brown, *Los Alamos National Laboratory*

Tuesday Evening, June 8, 2010, Session 42a, 5:30 PM

The panel will address graduate students, post-doctoral fellows, and early career members of SEM to discuss aspects of careers in industry, non-profit private research laboratories, DOE-national laboratories, Federal laboratories and DoD service laboratories. The panel is comprised of early career to senior managers who will cover the follow topics:

- Hiring
- Research
- Mentoring
- Rewards in Private vs. Public
- Opportunities for Service
- Family vs. Career

Invited panelists include:

Eric N. Brown
Deputy Science Executive, Los Alamos National Laboratory

Daniel T. Casem
U.S. Army Research Laboratory

Kathryn A. Danneman
Principal Engineer, Southwest Research Institute

Jennifer L. Jordan
Technical Advisor, Air Force Research Laboratory, Elgin AFB

Vijay Kulkarni
Intel

Gordon A. Shaw III
National Institute of Standards and Technology

Kristin B. Zimmerman
Volt Infrastructure Team, General Motors Research & Development

President's Reception

Tuesday, June 8, 2010, 7:30 PM



Wei-Chung Wang

National Tsing-Hua University, Taiwan
SEM President 2009-2010

SEM President, Wei-Chung Wang, and members of the SEM Executive Board and SEM staff will welcome all conference attendees, students, Exhibitors, and guests Tuesday evening at an open reception. The affair is intended to provide attendees the opportunity to meet with other conferees in a relaxed atmosphere.

All Society Awards Luncheon

Wednesday, June 9, 2010, 12:30 – 2:30 PM

SEM President, Wei-Chung Wang, will conduct the Society Awards Luncheon ceremony by presenting various awards in recognition of outstanding achievements in experimental mechanics and service to SEM.

Awards and Recipients:

SEM Fellow:	Randall J. Allemang Guruswami Ravichandran Jian Lu Yoshiharu Morimoto
G.A. Brewer:	Richard Mark French
A.J. Durelli:	Cosme Furlong
M.M. Frocht:	Eann A. Patterson
D.R. Harting:	Massimiliano Pau Antonio Baldi Bruno Leban
M. Hetényi:	Ashok K. Pandey Rudra Pratap Fook Siong Chau
B.J. Lazan:	Igor Emri
R.E. Peterson:	Carine Chevennement-Roux Thomas Dreher Patrick Alliot Evelyne Aubry Jean-Pierre Lainé Louis Jézéquel
F.G. Tatnall:	Emmanuel Gdoutos
C.E. Taylor:	C.W. Smith
F. Zandman:	Philippe Brailly

The 1st, 2nd and 3rd place winners of the International Student Paper Competition will also be announced.

The Luncheon is included with paid conference registration. However, SEM must be notified of your intent to attend. Additional tickets may be purchased for \$60.00 each, please see the conference registration form on the inside back cover of this program or at sem.org. Tickets must be obtained prior to 10:00 AM on Tuesday, June 8, 2010.

Easley Winery Tour & Dinner

Wednesday, June 9, 2010, 6:45 PM

Cost: \$75.00 per person

Come join us for a tour and a top notch dinner at Easley Winery!

Opening in 1974, Easley Winery is the oldest family owned winery in the state of Indiana. Depending on the year and season, Easley offers up to about 25 different wines. Our evening at Easley will begin with a Champagne welcome with assorted cheese and crackers. Next, Easley's educated and friendly staff will provide a detailed and entertaining tour of the facility including tasting of several wines. Following the tour there will be a buffet dinner with a choice of entrees, salad, vegetable, potato, and a choice of various types of delicious cheesecakes for dessert. One glass of complimentary wine is included with the meal. If you choose not to drink wine, other beverages will be provided. There is a cash bar. Motor coach transportation will be provided.