



Experimentally Speaking...

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MESSAGE FROM THE PRESIDENT



Emmanuel Gdoutos, SEM President, 2013-2014

WELCOME TO GREENVILLE

As my term as President nears its end, I would like to say how fortunate I am to have been at the helm of the *Friendly Society* since June 2013. The collaboration with the members of the Executive Board (EB), the Executive Director and the staff of the Society has been rewarding and fruitful. It has been a memorable experience, a milestone in my professional career.

Our society continues to be strong and robust, and serves its members in the best possible way. Our financial situation is healthy. Our two flagship publications *Experimental Mechanics* (EM) and *Experimental Techniques* (ET) continue to thrive. They constitute the main forum of publication of papers of the experimental mechanics community. Our two conferences, IMAC and the Annual Conference, attract more than 400 participants each and more than 50 exhibitors in total. In the last IMAC conference in Orlando 461 abstracts were submitted; they were presented in eight parallel sessions. Two keynote papers were presented titled: "Coupling and Decoupling: Strategies for Structural Dynamics," by Daniel Rixen, and "Dynamics of Coupled Systems: Maybe We Are Not As Good As We Think" by Dan Segalman. In both conferences we

have short courses in topics of cutting-edge technology. We have a good number of awards that is continuously increasing to honor individuals for their contributions in various aspects of experimental mechanics and recognize the work of students and encourage them to participate in our conferences. We continue our collaboration and support of sister societies around the world. Our fall conference will take place this October in Beijing, organized by the Chinese Society of Experimental Mechanics.

As we are celebrating the 70th birthday of our society, following the goals I set in my inaugural speech last June in Lombard and the plan set by the Executive Director we will discuss at the meeting of the Executive Board next June the forward direction of the society in terms of membership, journals, other publications and conferences. I am pleased to announce that the EB at its meeting in Orlando last February approved the publication of a new journal by our society on the "Dynamic Behavior of Materials and Materials in Extremes," edited by Eric Brown. Eric presented an excellent proposal that was unanimously

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Society for Experimental Mechanics, Inc.
7 School Street • Bethel, CT 06801 USA
<http://sem.org> • 203.790.6373
director@sem1.com

Continued

approved by the EB. This will add extra value to our intellectual property and increase our revenues. At the meeting of the EB in Greenville we will also be discussing the establishment of a new award to recognize a young professional who has demonstrated excellence in teaching and research in the field of experimental mechanics.

As June is just around the corner we are looking forward to our Annual conference in Greenville, South Carolina. The conference will take place in the Hyatt Regency hotel in downtown, a thriving business center with over ninety restaurants and pubs located around Main Street, walking distance from the hotel. Downtown Greenville is a cultural center featuring the Peace Center for the Performing Arts, the Greenville County Art Museum, the Greenville County Public Library, the Museum and Gallery at Heritage Green, the Upcountry History Museum and many private galleries and theaters.

Thanks to the tireless efforts of our members and the members of the Technical Divisions we have an overwhelming number of 434 accepted abstracts organized in 99 sessions. The conference will take place over four days and the papers will be presented in seven parallel sessions. The theme of our Annual meeting is "Experimental Mechanics Bridging Multiple Length and Time Scales." As in the last four years, the Proceedings of the Annual Meeting will be published by Springer. The papers of the conference will be presented in four tracks, Dynamic Behavior of Materials, Challenges in Mechanics of Time Dependent Materials, Advancement of Optical Methods in Experimental Mechanics, and Experimental and Applied Mechanics and 2 symposia, the 4th International Symposium on the Mechanics of Biological Systems and Materials and the 15th International Symposium on MEMS and Nanotechnology.

A highlight of the conference will be the prestigious William M. Murray lecture that will be presented by Prof. G. Ravichandran of the California Institute of Technology on Tuesday morning titled "Three-dimensional Quantitative Visualization: Application to Cell-Matrix Interactions." The Journal of Strain Analysis Young Investigator Lecture will be presented by Dr. Samantha Daly of the University of Michigan on Monday morning titled "Linking Length Scales: Investigating the Effect of Microscale Strain Localization on Macroscopic Response." We are excited to attend both lectures and congratulate the authors for their outstanding contributions.

On the social side, we will have the Welcome Reception on Sunday immediately following the Annual Business Meeting. On Tuesday evening we will have the President's Reception. It is my great pleasure to invite you on behalf of the Friendly Society to participate in both receptions as our guests. On Wednesday at noon we will have the Awards Luncheon where we will have the pleasure to honor individuals for their outstanding contributions in various areas of experimental mechanics and for their service to the Society. On Wednesday afternoon I will preside over the last meeting of the Executive Board as President and I will have the pleasure to pass on the reins of the Society to the President-Elect Prof. Nancy Sottos of the University of Illinois.

It has been an exciting year to serve as President of the Friendly Society. My heartfelt thanks go to the Executive Director Tom Proulx and the staff of the Society for their help and support, to the members of the EB and the members of the Society for their advice and support. I wish all the best for success to the incoming President. I am sure that the Friendly Society will continue to excel in the years ahead and serve the international experimental mechanics community in the best possible way.



Emmanuel E. Gdoutos
SEM President

FROM THE EXECUTIVE DIRECTOR

2014 marks my 13th year with SEM. A lot has happened over that time. I don't intend to spend a lot of time rehashing the last 13 years. Instead, I would like to talk a bit about what SEM is and where we might be headed.

Our Society started in 1943 as the Society for Experimental Stress Analysis. According to Prof. William Murray, the Society was formed to fill "...the need for a more formal organization of the Conferences if continuity was to be maintained, and a record of the technical discussions and presentations were to be preserved." In 2014 this still remains the mission of the Society.

Our two conferences, IMAC and the SEM Annual Conference each draw 400+ people to present their work, to interact with others describing their latest work and, to see the latest hardware in our exhibition. The key to drawing people is the Technical Program and the Program is driven by our Technical Divisions.

It is basically from discussions among individuals at our meetings that ideas for future sessions come. Sometimes these sessions grow into a Track or even a new TD. Ten years ago there was no Dynamic Behavior of Materials TD, or Civil Structures Testing TD, or Model Validation & Uncertainty Quantification TD, or Inverse Methods TD. Today, the first two TD's listed were responsible for one-third of the papers presented at the two conferences held in the past year.

This is the true strength of the "friendly society." We make it easy for like-minded people to get together to generate interest in a topic. Sometimes the topic grows and sometimes it does not. What is important is that we continue to foster an environment that encourages this to happen.

In terms of preservation and dissemination of information, we currently publish two journals, *Experimental Mechanics* and *Experimental Techniques*. Both publications are growing and present continually improving technical content. At its most recent meeting the Executive Board of the Society has directed that we attempt to establish a new publication in the area of Dynamic Behavior of Materials. Eric Brown of Los Alamos National Laboratory has been appointed as Editor-in-Chief to begin this process.

In addition to these publications, SEM entered into an agreement with Springer to publish the conference proceedings for our major conferences. This began with the 2010 conferences and in 2011 and 2012 over 50,000 (total for 2 years) papers were downloaded according to the data from Springer. It certainly appears that we are accomplishing our mission of preserving and disseminating the information from our conferences.

There are more things we would like to do. For that we need help from you, the members. The first area we would like to address is membership. SEM membership has been relatively stable at around 1,700. We would like to grow this number. Historically, it was usually an existing member who got a person involved with the Society. That means that neither headquarters nor an outside agency is likely to be effective at increasing membership. It is a long term process that can best be termed "member-get-a-member." It needs to be driven by a committee of members who are committed to making a continuous effort to get new members.

Past President Peter Ifju has agreed to begin this effort by re-activating the SEM Membership Committee. He certainly could use some help. If you would like to volunteer to be part of this effort, send me an email (tom@sem1.com) and I will let Peter know. The first formal meeting of the committee will be at the Conference in June.

As always, if you have any questions or comments please don't hesitate to email or call. I look forward to seeing you in Greenville!



Tom Proulx
Executive Director

2014 IMAC-XXXII CONFERENCE AND EXPOSITION ON STRUCTURAL DYNAMICS

FEBRUARY 3–6, 2014 AT THE ROSEN PLAZA HOTEL, ORLANDO, FLORIDA USA

HIGHLIGHTS AND AWARDS OF IMAC-XXXII IN ORLANDO, FLORIDA

Our sincerest congratulations to all those who received awards and to the attendees for making this a record attendance IMAC conference.



Daniel Rixen—keynote speaker from Technische Universität München and Al Wicks—IMAC Conference Director



Dan Segalman—keynote speaker from Sandia National Laboratories and Al Wicks—IMAC Conference Director



Dave and Pat Brown—Dave has attended all 32 IMAC Conferences



Ulrike Else Kat (wife) and Lothar Gaul



Jack Mowry, and wife Lois—Honorary Session honoree and Al Wicks—IMAC Conference Director



Suri Ganeriwala, Jack Mowry and Lois Mowry



David Ewins—SEM Fellow recipient and Al Wicks—IMAC Conference Director



Keith Worden—D. J. DeMichele Award recipient and Al Wicks—IMAC Conference Director



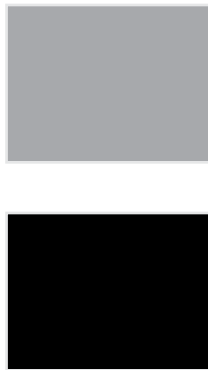
Emiel Barten—D. J. DeMichele Scholarship winner and Al Wicks—IMAC Conference Director

EVENTS

Attendees mingling at the various IMAC reception and award functions and interacting with Exhibitors.



IMAC-XXXII



IMAC Advisory Board—Jenn Mowry, Chris Niezrecki, David Ewins, Randy Allemang, Jim DeClerck, Chuck van Karsen,



490

Number of attendees at IMAC-XXXII in 2014.



Evro Wee Sit, Al Wicks, Matt Allen, Ralph Brillhart and Raj Singhal (not pictured)



Maria (wife) and Emmanuel Gdoutsos-SEM President





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2014 IMAC-XXXII CONFERENCE AND EXPOSITION



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