



Experimentally Speaking...

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MESSAGE FROM THE PRESIDENT



Nancy Sottos, SEM President, 2014-2015

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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

When I began my term as SEM president last June, we were coming off an excellent Annual meeting in Greenville, SC and planning for an exciting year ahead. Certainly none of us in the society were prepared for the sudden passing of our Executive Director, Dr. Thomas Proulx, this past October. Tom served as Executive Director of SEM since 2001 and was loved and respected by our SEM community. He guided the society through some rocky times, but through his work ethic and dedication he helped to make the society the success it is today.

The loss of Tom was significant for us on both a professional and personal level, but the SEM staff, Executive Board, and our close-knit community of members have pulled together to keep the society moving forward. Dr. Kristin Zimmerman graciously agreed to serve as the Interim SEM Director, while we search for a new permanent Director.

As many of you know, Kristin has been a dedicated, active member of SEM, serving on the SEM Executive Board for many years, as President from 2008 to 2009, Senior Technical Editor of ET from 2004-2006, and most recently as Treasurer. Kristin's professional career encompasses over 20 years at General Motors (GM) and 15 years at President of MedFor Inc. Kristin brings a wealth of experience to this position and we are fortunate as a society to have her serve in this capacity. While Kristin is Interim Executive Director, Jon Rogers has agreed to return to the duties of Treasurer. Please join me in thanking both Kristin and Jon for their admirable dedication to SEM.

As we enter 2015, we look forward to a successful IMAC Conference and Exposition on Structural Dynamics that will be held February 2-5, 2015 at the Rosen Plaza Hotel in Orlando, FL. The advance program is on line at <http://sem.org/CONF-IMAC-TOP.asp> and there will be six preconference courses offered this year. I hope to see many of you at the meeting.

SEM also launched the new Journal of Dynamic Behavior of Materials (<http://springer.com/40870>) with Dr. Eric Brown, Group Leader at Los Alamos National Lab as the Editor-in-Chief. Submissions are now being accepted, so please consider publishing your research in this exciting new journal.

The James W. Dally Young Investigator Award is now officially added to the prestigious list of SEM Awards. I encourage you to submit nominations for this award as well as the other SEM Awards (<http://sem.org/Honors.asp>).

In closing, I would like to again recognize the immeasurable contributions Tom Proulx made to SEM in his role at Executive Director. The Society is working on plans to more formally honor his memory – he will be missed.

Nancy Sottos
SEM President

2015 SEM EXECUTIVE BOARD NOMINEES

The SEM National Nominating Committee has announced nominations for 2015–2016 SEM Executive Board officers. Biographies for each nominee appear in this article. If elected, they will join current Board members whose terms extend to 2016: Nancy Sottos, Jonathan Rogers, Kristin Zimmerman, F. Necati Catbas, Robert Goldstein, Daniel Rixen, and Satoru Yoneyama.



Guruswami Ravichandran



Peter Avitabile



Kathryn Dannemann



Gäetan Kerschen



Michael Mains



Ghatu Subhash



Hareesh V. Tippur

PRESIDENT

GURUSWAMI (RAVI) RAVICHANDRAN

Guruswami (Ravi) Ravichandran is the John E. Goode, Jr. Professor of Aerospace and Professor of Mechanical Engineering, and Director of the Graduate Aerospace Laboratories (GALCIT) at the California Institute of Technology. He received his B.E. (Honors) in Mechanical Engineering from the University of Madras, Sc.M. in Engineering and Applied Mathematics, and Ph.D. in Engineering (Solid Mechanics and Structures) from Brown University. After a year of post-doctoral work at Caltech, he joined the faculty of the University of California, San Diego in 1987 and returned to Caltech in 1990 where he has been ever since. He is a Fellow of the SEM and ASME. His awards and honors include, B. J. Lazan and M. Hetényi Awards from SEM and Charles Russ Richards Memorial Award from Pi, Tau, Sigma and ASME. He received Doctor honoris causa (Dhc) from Paul Verlaine University and was awarded Chevalier dans l'ordre des Palmes Académiques by the Republic of France. His research interests are in the area of mechanical behavior of materials with emphasis on dynamic deformation and failure, biomaterials and cell mechanics, and experimental mechanics. He has served as an associate editor of SEM's Journal, Experimental Mechanics, and ASME's Journal of Engineering Materials and Technology.

PRESIDENT-ELECT

PETER AVITABILE

Dr. Peter Avitabile—Professor, Mechanical Engineering, Co-Director, Structural Dynamics and Acoustic Systems Laboratory, B.S.M.E., Manhattan College, M.S.M.E., University of Rhode Island, D.Eng., University of Massachusetts Lowell, Professional Engineer, Rhode Island. Pete has close to 40 years of experience in design and analysis using FEM and experimental techniques. His main area of research is structural dynamics specializing in the areas of modeling, testing and correlation of analytical and experimental models along with advanced applications for developing structural dynamic models. Pete has contributed over 200 technical papers in the area as well as his “Modal Space” article series in the Experimental Techniques magazine published by the Society for Experimental Mechanics. He is the 2004 recipient of the prestigious SEM DeMichele Award. He is recognized worldwide as an expert in structural dynamic modeling applications. He often provides consulting services for a wide variety of industries in these specialty areas of expertise.

VICE-PRESIDENT

KATHRYN DANNEMANN

Kathryn Dannemann is Principal Engineer in the Engineering Dynamics Department at Southwest Research Institute. She is a materials engineer with professional interests and experience in the mechanical behavior of materials, and the interactive effects of microstructure and processing on materials performance. At SwRI, Dr. Dannemann's technical work focuses on the dynamic behavior of various materials (metals, ceramics, composites, glass). She directs technical programs for both government and industry, often implementing customized experimental setups in her programs to aid with understanding mechanical response. She has taught as an adjunct professor in the ME Department at the University of Texas-San Antonio. Prior to joining SwRI in 1996, she worked at the GE Corporate Research and Development Center where she was most recognized for her contributions on the mechanical behavior of materials in extreme (high temperature) environments. Kathryn received her Ph.D. in Materials Engineering from the Massachusetts Institute of Technology in 1989, and earned B. S. and M. S. degrees in Materials Engineering from Rensselaer Polytechnic Institute. She has made dedicated contributions to SEM since becoming actively involved in 2006. Dr. Dannemann has chaired and organized numerous conference sessions, as well as the Dynamic Behavior of Materials Track for the 2008 and 2009 annual conferences. She served as a Member at Large (2012–2014) of the SEM Executive Board, and is

past Chair (2008-2010) of the SEM Dynamic Behavior of Materials Technical Division. Kathryn has served as a Guest Editor for Experimental Mechanics, and will also serve on the Editorial Board of the new SEM journal, Dynamic Behavior of Materials. She has held numerous leadership positions in other technical societies, including ASM International, The Minerals, Metals and Materials Society (TMS), and the Society of Women Engineers (SWE). Dr. Dannemann was recently nominated to the Board of Trustees of ASM International.

MEMBERS-AT-LARGE

GÄETAN KERSCHEN

Gäetan Kerschen completed his M.S. and Ph.D. degrees in Aerospace Engineering from the University of Liège in Belgium, in 1999 and 2003, respectively. In 2003 and 2004, he was a visiting postdoctoral fellow at the National Technical University of Athens and at the University of Illinois at Urbana-Champaign working under the supervision of Professors Alexander Vakakis and Lawrence Bergman. Since 2007, he has been a faculty member at the University of Liège, where he is now a professor in the Department of Aerospace and Mechanical Engineering. His publications are primarily in the areas of nonlinear structural dynamics (including nonlinear system identification, nonlinear modal analysis, constructive utilization of nonlinearity, and bifurcation analysis and management) and orbital mechanics. He is the recipient of a European Research Council (ERC) Starting Grant and serves as an Associate Editor of the journal of Mechanical Systems and Signal Processing.

MICHAEL MAINS

Mr. Mains received his undergraduate and master's degrees in Mechanical Engineering from the University of Cincinnati. He is in his 9th year working at Brüel & Kjær as a Senior Software Developer. During his employment with Brüel & Kjær he has had the opportunity to work on many software projects related to Structural Dynamics and Modal Analysis. He has also had the opportunity to speak and lecture at several Brüel & Kjær sponsored conferences and travel to customer sites to interview customers on their future needs in the area of Structural Dynamics.

GHATU SUBHASH

Professor Subhash obtained his MS and PhD degrees from University of California San Diego in 1991 and then conducted post-doctoral research at California Institute of Technology, Pasadena, CA. He joined Michigan Technological University in 1993 and then moved to University of Florida in 2007. He has received numerous awards for excellence in teaching, research and professional service, including the 'Significant Contribution Award' American Nuclear Society Materials Science and Technology Division (2014) 'Technology Innovator Award' University of Florida (2014), University of Florida Research Foundation Professor (2013), College of Engineering Teacher/Scholar of the year (2013), 'Researcher of the Year' Mechanical and Aerospace Engineering Department, UF (2011); Second Place of the Best paper Awards at the 31st Annual American Ceramic Society meeting (2008); Michigan Tech Distinguished Research Award (2005); ASME Fellow (2004); ASME Student Section Advisor Award (2003); Society of Automotive Engineer (SAE) Ralph R. Teetor Educational Award (2000); American Society of Engineering Education (ASEE) Outstanding New Mechanics Educator (1996); Michigan Tech Distinguished Teaching Award (1994). He is an Associate Editor of Mechanics of Materials, Journal of the American Ceramic Society, Experimental Mechanics, ASTM Journal of Engineering Materials and Technology and Journal of Dynamic Behavior of Materials. He has graduated 22 PhD students and is currently advising 12 PhD students in various fields related to processing, microstructural characterization and multiaxial behavior of materials including ceramics, metals, foams, composites, gels and brain tissue. He has authored 145 peer reviewed journal papers, 70 conference proceedings, 10 invention disclosures and patents.

HAREESH V. TIPPUR

Hareesh V. Tippur is McWane Endowed Chair Professor and Graduate Program Chair of Mechanical Engineering at Auburn University, Alabama. He received graduate degrees from the Indian Institute of Science and State University of New York - Stony Brook. He was a post-doctoral fellow of Aeronautics at the California Institute of Technology before joining the faculty of Mechanical Engineering Department at Auburn in 1990. He has worked extensively in the areas of fracture and failure mechanics of solids with an emphasis on high-strain rate response of novel materials. He is credited with the development of several quantitative visualization tools including hybrid laser-speckle and moiré method, coherent gradient sensing (CGS), infrared rough surface interferometry, digital image correlation for ultrahigh-speed photography and more recently the digital gradient sensing (DGS) method. His other major contributions are in the areas of fracture and failure mechanics of dissimilar material interfaces, functionally graded materials, syntactic structural foams, cellular structures, interpenetrating phase composites, nanocomposites, to name a few. To date his research has resulted in over 200 publications in archival journals, books and conference proceedings. Several federal agencies including NSF, DOD and NASA have sponsored his research consistently over the years. He has numerous received accolades from professional societies including the Hetényi Award from the Society for Experimental Mechanics, Beer-Johnston Mechanics Educator Award from the American Society for Engineering Education, Fellow status in the American Society of Mechanical Engineers and the Society for Experimental Mechanics, Fylde Electronics Prize from the British Society for Strain Measurement, A.S. Kobayashi Award from ICCES and Orr Award from ASME-Materials Division. Currently he serves on the editorial boards/committees of Strain, ASME Journal of Engineering Materials & Technology and as the Chief Editor of Experimental Mechanics.

A TRIBUTE TO THOMAS WILLIAM PROULX

HEY GUY...

The signature greeting that we all recognize to be that of Tom Proulx.

I may not be the best person to start off this tribute to Tom but I am honored to do so.

I have known Tom since he first started at SEM in 2001. I have always been involved in SEM due to my involvement in IMAC, Experimental Techniques and board activities. But as with many of us at SEM, the interaction with Tom has generally been an individual, one-on-one interaction for the most part. For me, Tom was the “go to guy” who I could always turn to for a question, advice, a discussion, or whatever I could possibly need. But in every interaction, it would invariably start with his signature phrase. A phone message might be “Hey guy... give me a call to discuss...”. Or if I would call and he wasn’t there right then (because he was off on a coffee run or another errand), within an hour the phone would ring and before I could say hello, the voice would say “Hey guy...what’s up.”

But each of us knew Tom with that one-on-one interaction. For me he provided guidance, an ear, suggestions or a discussion on a matter of importance.

On the day I heard the news, I just sat back in my office chair, stunned, shocked, confused, and sad because a good man was taken from us all. I remember seeing email after email from the people associated with SEM and board activities with the shock of the news. And what I heard that day was how Tom had been an important friend, colleague, and associate who had touched each person in multiple ways. Tom was there to help everyone with whatever their pet project was. He was there to gently guide and lead us to the conclusion of our project. He often helped us to make the decisions that needed to be made along the way.



JUNE 3, 1948—OCTOBER 21, 2014

And most recently, as we decided to wind down the Experimental Techniques “Modal Space” series, Tom was there to make sure that the close to the series was done in a very appropriate manner. He let me decide how to make sure the closure was done properly. There was no pressure and he was there to support the decision that we made, clearly letting me guide the process. That very supportive, gentleman like nature about Tom stood out above everything else as we agreed to close the series. And then he wrote the best email to the SEM Board Members to state what we had decided to do – and with very humbling words to thank me for my contribution. It is really Tom that we need to thank for his contributions that are always behind the scenes to make everything run smoothly and successfully. I have read that email a few times and thank Tom for the kind words that he wrote.

Tom will be missed by all in many different ways. The society owes him a great debt of gratitude for his dedication, hard work, motivation, and professional yet friendly attitude towards all those he has touched in his years at SEM. We are all beyond grateful that Tom has crossed our individual paths and made such a significant mark on the SEM community. I will be sure to greet everyone I see at the next meetings with Tom’s signature phrase.

And there is only one last thing that I feel I must say and that is

“Hey guy...”

— Peter Avitabile
Vice President, SEM

To follow up with Pete's "Hey Guy", the next words out of Tom's mouth were often "How Are You?". From my Midwestern ear and Tom's New England phrasing, it often sounded more like "how wa ya" and always reminded me of "Hawaii" for some reason. I will miss the greetings and the smiling countenance when I arrive at Society functions in the future. As with everyone else, I was stunned to get the news.

Tom became the Director of SEM in 2001. At that time, I was on the Executive Board and worked closely with Tom over the years since. SEM was in a financial struggle in 2001 and Tom's background as a PhD in Chemistry was a surprisingly good fit for the Director's position. We could not have anticipated how important Tom would become to the Society. Tom quickly understood the need to focus on the success of the Society's conferences, courses and intellectual property. Tom clearly understood the concept that SEM was the friendly society and became a significant part of that reputation.

Tom also understood the need to continue to build bridges between the historical SEM activities (what I refer to as the micro-nano side of SEM) to the IMAC activities (what I refer to as the macro side of SEM). Tom became the guiding hand together with the Executive Board(s) and Treasurer over the last thirteen years to establish a strong financial base and build an assimilated structure of members that helps make SEM what it is today. We are all grateful for Tom's work on our behalf, saddened at the loss and hopeful that Tom's legacy with SEM will not soon be forgotten.

— **Randy Allemang,**
Former President, SEM

On the day that I heard of Tom's passing, I walked around all day in a complete daze. I didn't want to believe the terrible news. Another SEM member stated that the news "hit him like a ton of bricks". That accurately described how it affected me. Since then, I struggled to put my thoughts into words. That's because I believe we all appreciated and loved Tom and whatever I write most of us have already thought. I am fortunate to have spent many an hour with Tom in person, via email and telephone. I felt very close to Tom and will miss his friendship and his steady leadership as Executive Director.

After serving on the SEM Executive Board from 2005 – 2007, again from 2009 – 2014, and President, I realized that our Society was fortunate to have such a caring, intelligent, and proactive Executive Director. By the time I was on the Board, Tom and previous Boards had righted the Society's financial ship and we were on a new and stable trajectory. Theoretically, the Society is run by the members, but I recognized early on that the members provide the ideas/vision and Tom and his staff do the real work. Tom epitomized the "can-do attitude" that allowed us to implement new ideas. On numerous occasions when the board sought solutions to various problems Tom provided the means to solve them. Often during some of the Board's deliberations, I found myself looking to Tom for approval and validation. I still remember Tom's reaction when I asked him to provide the now traditional "pizza lunch" for the Technical Division meetings. I was expecting rejection with a hint of ridicule, but Tom's reaction was quick and decisive. With a smile he looked at me and said "Let's choose a day during the conference and we'll make it happen". This was a typical reaction that I became used to. I know that many in our Society have experience a similar reaction.

Our Society is better because of Tom. I will miss Tom dearly, as a friend, colleague and leader, with friend listed first.

— **Peter G. Ifju,**
Former President, SEM

Thomas William Proulx, 66, of Norwalk, CT., died suddenly on Tuesday Oct. 21, 2014 of a heart attack. Mr. Proulx was born June 3, 1948 in Haverhill, Massachusetts, the son of the late Alfred (Buster) and Jeannette (Dodier) Proulx, both of Haverhill. After his marriage to Carmen (Thibodeau) in 1970, the couple spent 6 years in Texas before they moved to Norwalk, CT in 1976.

Tom attended St. Joseph Grammar School, Haverhill, Ma. and graduated from Central Catholic High School, Lawrence, Ma. He also graduated from Boston College in 1970 and received a PhD in Chemistry from Texas A&M University in 1975.

The Director of the Society for Experimental Mechanics since 2001, Tom also worked for the former Perkin-Elmer Corporation from 1976 to 1996.

An avid Bruins and Red Sox fan, Tom also enjoyed golf and playing the guitar. He had a special interest in WWII and Civil War history and he was active in the Connecticut Bridge Association and editor of the Kibitzer.

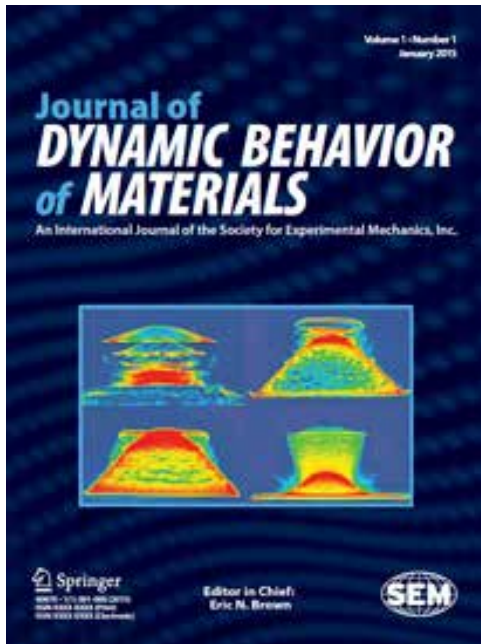
Tom enjoyed spending time with his family and he especially adored his granddaughter, Sam.

Besides his wife, Mr. Proulx is survived by his daughter and son-in-law Jennifer and Will Tingets and their daughter Samantha, of Norwalk, CT, and by his brother Daney of Guilford, CT, sisters Michelle Conti of Haverhill, Mass., Marie Mueller of Guilford, CT, and Donna Egan of Northwood, NH, and by many nieces and nephews.

— **June 3, 1948–Oct. 21, 2014**

All those who are interested in submitting a tribute to Tom are welcome to do so by sending an email to me (Peter_Avitabile@uml.edu). I will review and assemble for inclusion in subsequent newsletters.

INTRODUCING THE JOURNAL OF DYNAMIC BEHAVIOR OF MATERIALS



I am excited to introduce the Journal of Dynamic Behavior of Materials as the new journal of the Society for Experimental Mechanics aimed at serving the growing Technical Division on Dynamic Behavior of Materials. I wish to invite you to submit your best work on the study of the Dynamic Behavior of Materials to the journal and help in getting the word out to your colleagues.

<http://springer.com/40870>
<https://www.editorialmanager.com/jdbm/>

Over the past decade SEM and Experimental Mechanics have seen a dramatic increase in the focus on Dynamic Behavior of Materials.

The Journal of Dynamic Behavior of Materials provides a more focused forum for these papers and the membership of the growing Technical Division on Dynamic Behavior of Materials with the Society for Experimental Mechanics.

The field is on the threshold of a new revolution, with increasing interdisciplinary focus and numerous user facilities enhancing their capacities for studying materials in extremes and projects to come online ranging from SLAC's Linac Coherent Light Source, the Dynamic Compression Sector at the Advanced Photon Source at ANL, The National Ignition Facility at LLNL, and Matter-Radiation Interactions in Extremes (MaRIE) at LANL.

The Journal of Dynamic Behavior of Materials offers a single home to bring the broader field together. The Journal of Dynamic Behavior of Materials is a peer reviewed, archival journal, published by SEM and Springer, on the science and engineering of material and structural response to dynamic loading focused on high strain-rate, impact, blast, penetration, and shock response.

The journal publishes experimental, theoretical, modeling and simulation, and interdisciplinary work focused both on advancement of new techniques and application of techniques to new materials and structures.

Experimental techniques will include, but not be limited to, small-scale tests for constitutive response of material such as Split Hopkinson Pressure Bar, Kolsky Pressure Bar, gas-gun and powder-gun driven plate impact, direct and flier plate drive high-explosive experiments, direct and flier plate drive laser experiments, and drop tower; small-scale integrated tests for validation of material constitutive models such as Taylor Anvil, Dynamic-Tensile-Extrusion, high-explosive driven perturbed plate experiments, shock tube loading; and integrated structure level experiments as blast, impact, crash, and penetration mechanics.

The journal will also cover diagnostics for dynamics experiments to include, but not be limited to, high-speed photography, dynamic radiography, velocimetry (PDV, mPDV, VISAR, lineVISAR, etc), gages, pins, etc. In addition to primary research articles, The Journal of Dynamic Behavior of Materials will publish review articles, brief technical notes, and applications articles that discuss important emerging technologies.

Eric Brown,
 Editor-in-Chief,
Journal of Dynamic Behavior of Materials

IMAC-XXXIII IS GOING MOBILE

CONNECTING WITH ATTENDEES

We have chosen a platform that will provide many benefits to attendees, including:

MOST UP-TO-DATE SESSION SCHEDULES

Your entire schedule is right on your phone/tablet. Pick sessions and add them to your **personalized agenda** with reminders. If you want more details, you can simply click on a session to see images, locations, and detailed descriptions. Anytime we make a change to the guide, it will be instantly available to everyone using it.

EXHIBITOR LISTINGS

Includes a searchable list of exhibitors along with descriptions.

TO-DO LIST

An interactive to-do list allows you to jot down all of the things you don't want to miss and check them off upon completion. With one touch, you can add an exhibitor, speaker, or sponsor to your list.

INDOOR MAPS AND FLOOR PLANS

Vivid, high-resolution maps allow you to scroll and zoom in order to navigate your way around the venue.

INSTANT FEEDBACK

Includes tools so you can tell us what you liked most about the event, or how you would improve it for next year.

To get started, download **Guidebook** from the Apple App Store, Android Marketplace, visit guidebook.com/getit or simply scan the QR code below. Our guide will be made available prior to the conference, visit our website for more details!

Scan to download!



MEMBER NEWS

PAUL HENRY ADAMS

Paul Henry Adams born Oct. 16, 1922, in Flagstaff, Ariz., died Nov. 16, 2014. He graduated from UNM in 1944 in Mechanical Engineering, was commissioned as an Ensign in the U.S. Navy on Aug. 24, 1944, and served during WWII. He received his MS in Mechanical Engineering in June 1965 and co-authored a text on experimental (mechanical) stress analysis. Paul worked as a mechanical engineer at Sandia National Labs for 35 years, retiring in 1983.

Full obituary can be found at <http://goo.gl/ZHISI7>

HENRY C. PUSEY

We regretfully announce the passing of Mr. Henry C. Pusey. Everyone in the S&V community knows Henry as the "godfather" of our annual symposium and of the various organizations that the symposium was operated under. Henry was our forum's greatest champion and spokesperson. He will be greatly missed. Henry Carroll Pusey, 87, of Winchester, Virginia died Thursday, December 11, 2014 in the Winchester Medical Center. Mr. Pusey was born in 1927 in Seaford, Delaware, the son of the late Samuel E. and Agnes M. Pusey. He graduated from Randolph Macon College with a Bachelor of Science degree. He was a veteran, having served as a Corporal in the United States Army during World War II. He was a physicist with the Department of Defense Naval Research Lab, retiring after 31 years of service. He was of the Methodist faith, and was a member of the Sons of the American Revolution, and Sons and Daughters of the Pilgrims.

Full obituary can be found at <http://goo.gl/yYg49m>

EMMETT DAY, SR.

Prof. Emmett Day (SEM President 1974-75) has passed away at the age of 99. Emmett Elbert Day Sr., age 99, died peacefully at his home in Seattle on Thursday, December 11, 2014. Emmett is survived by daughter Elaine Day LaTourelle and her husband Terry Middaugh, grandson Adrian LaTourelle, his wife Tessa and sons Julian and Olivier; granddaughter Ally LaTourelle; granddaughter Kelly Day; grandson Seth Meyer and his wife Gaylene and sons Evan and Emmett; nieces Anita Day Miller; Chris Weissinger, Sharon Day and Jenny Pierce. Emmett is predeceased by his wife of 67 years, Roxie Whistler Day and his son, Emmett E. Day, Jr.

Full obituary can be found at <http://goo.gl/GjD46N>



Experimentally Speaking...

IMAC-XXXIII COURSES OFFERED

CONFERENCE FEBRUARY 2–5, 2015 | ROSEN PLAZA HOTEL, ORLANDO, FL

FRI, JAN. 30–SAT, JAN. 31, 2015 | 8:00 A.M.–6:00 P.M.

COURSE

Course 101:
Random Vibration and
Model Validation

INSTRUCTORS

Thomas L. Paez–
Structural Dynamics Associates

SATURDAY, JANUARY 31, 2015 | 8:00 A.M.–6:00 P.M.

Course 102:
Operational Modal Analysis:
Background, Theory
& Practice

Svend Gade–
Brüel & Kjær University
Carlos E. Ventura–
University of British Columbia

Course 103:
Theory and Experimental
Identification of Linear Time
Periodic Systems & CSLDV

Matthew S. Allen–
University of Wisconsin-Madison
Dario Di Maio–University of Bristol

SUNDAY, FEBRUARY 1, 2015 | 8:00 A.M.–6:00 P.M.

COURSE

Course 104:
Nonlinear System
Identification in
Structural Dynamics

INSTRUCTORS

Gaëtan Kerschen–University of Liège
Keith Worden–
University of Sheffield

Course 105:
Bayesian Uncertainty
Quantification:
Theory, Computational
Tools, and Applications

Costas Papadimitriou–University of
Thessaly, Greece
Babak Moaveni–Tufts University

Course 106:
Teaching, Learning and
Performing
Vibration Analysis

Anders Brandt–
University of Southern Denmark

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