

2010-2011 SEM EXECUTIVE BOARD NOMINATIONS

The SEM National Nominating Committee has announced nominations for 2010-2011 SEM Executive Board officers. Biographies for each nominee appear in this article. The Executive Board Nominees are: President – Ryszard J. (Rich) Pryputniewicz; President-Elect – Peter G. Ifju; and Vice-President – Carlos Ventura. Executive Board Member nominees are: Ralph Brillhart, Wendy Crone, Douglas Adams, and Ramon Rodriguez-Vera. If elected, they will join current Board members whose terms extend to 2011; Kristin B. Zimmerman, Wei-Chung Wang, Jonathan D. Rogers, Thomas W. Proulx, Hugh A. Bruck, Gary C. Foss, Fabrice Pierron, and Phillip L. Reu.

Additional Nominations

These individuals are the official choice of the SEM Nominating Committee. The Society's bylaws also provide for alternate nominations. Article IX, Section 4, of the SEM constitution states that, "A member may also be nominated by written petition of at least 75 members of the Society, and submitted to the Secretary, together with the member's consent to serve, if elected, at least 90 days prior to the Annual Business Meeting," (May 31, 2009 in Albuquerque, New Mexico).

The Bylaws also provide that, if no additional nominations are submitted by the membership at large, the Secretary of the Society (in this case, the Executive Director) shall cast an affirmative vote on behalf of the membership at the Society's Annual Business Meeting.

PRESIDENT



Ryszard J. (Rich) Pryputniewicz

Prof. Pryputniewicz, educated both in Poland and the United States, is Professor of Mechanical Engineering and founding Director of the Center for Holographic Studies and Laser micro-mechaTronics (CHSLT) at Worcester Polytechnic Institute (WPI) in Worcester, Massachusetts, since 1978. Previously he was a faculty member and Director of the Laser Research Laboratory at the School of Engineering and the Health Center of the University of Connecticut (6 years); and a member of the Aerospace technical staff (4 years). He also founded the NanoEngineering, Science, and Technology (NEST) Program at WPI, addressing undergraduate and graduate education and research in the field of lasers, photonics, microelectromechanical systems (MEMS), and nanotechnology. He is a Fellow of SEM, Fellow of SPIE, vice-chair of the ASME Committee on Photonics Systems, Co-chair of the ASME Symposia on Education in Mechatronics and MEMS, Co-chair of the SEM Symposium Series on MEMS and Nanotechnology, Director of MEMS and Nanotechnology Technical Division of SEM, and chairman of the IEEE Nanotechnology Council Education Committee. He has over 250 publications and has chaired, co-chaired, and organized over 100 conferences, symposia, and workshops on the state-of-the-art and emerging technologies for various sponsors and professional societies.

Rich joined SEM/SESA in 1970, as a student member. He is a third-of-a-century member of the Society.

PRESIDENT-ELECT



Peter G. Ifju

Dr. Ifju is an Associate Professor in the Department of Mechanical and Aerospace Engineering at the University of Florida (1993 – present). He received his B.S. in Civil Engineering (1986), his M.S. in Engineering Science and Mechanics (1989) and his Ph.D. in Materials Engineering Science (1992) at Virginia Polytechnic Institute & State University. He held the position of a Postdoctoral Research Associate at NASA Langley Research Center before starting at the University. His research expertise includes experimental stress analysis, moiré interferometry, composite materials testing and fabrication, strain sensitive coatings as well as micro air vehicles. He has co-authored a book and has published more than 30 articles in archival journals on topics related to experimental mechanics. He has also received 3 best journal paper awards, was awarded best teacher at the college and department level at the University of Florida, and has 3 patents associated with experimental mechanics. Peter Ifju served as an associate editor for the *Journal of Experimental Mechanics* from 2003 – 2006.

VICE PRESIDENT



Carlos Ventura

Dr. Carlos Ventura is a Civil Engineer with specializations in structural dynamics and earthquake engineering. He has been a faculty member of the Department of Civil Engineering at the University of British Columbia (UBC) in Canada since 1992. He is a registered professional engineer in British Columbia, California and Guatemala. He is currently the Director of the Earthquake Engineering Research Facility (EERF) at UBC, and is the author of more than 200 papers and reports on earthquake engineering, structural dynamics and modal testing. He is a member of several national and international professional societies and advisory committees. Ventura has conducted research for more than twenty five years in the dynamic behavior and analysis of structural systems subjected to extreme dynamic loads, including severe ground shaking. His research work includes experimental studies in the field and in the laboratory of structural systems and components. Research developments have included novel techniques for regional estimation of damage to structures during earthquakes, detailed studies on nonlinear dynamic analysis of structures, and methods to evaluate the dynamic characteristics of large Civil Engineering structures. Ventura has a substantial research record in shake table testing and vibration studies of existing structures subjected to different levels of dynamic loading and seismic retrofit of existing structures. His current research is focused on the development of performance-based guidelines for seismic retrofit of schools, on methods to evaluate the interaction between critical infrastructure vulnerable to natural and man-made hazards, and on structural health monitoring of bridges.

MEMBERS AT LARGE



Ralph Brillhart

Mr. Brillhart is currently Vice President & Technical Director of Test Projects, with ATA Engineering, Inc. in San Diego, California. Mr. Brillhart is one of the principals of ATA which started as a spin-off operation from Structural Dynamics Research Corporation (SDRC) in April, 2000. Including his 23 years at SDRC, he has spent over 30 years conducting and managing test programs in the aerospace, transportation, and entertainment industries. Many of these programs have focused on dynamic and static durability and qualification testing of structures and include modal testing of aircraft, launch vehicles, satellites, and other aerospace hardware. He has become recognized worldwide for his modal testing and analysis expertise and has written numerous papers discussing the applications of modal testing techniques and new approaches to modal testing. He has conducted many large scale modal surveys of aerospace, automotive, and industrial structures over the past thirty years.

He obtained his Bachelor of Science in Mechanical Engineering at the University of Cincinnati in 1977. In 1983, he obtained his Master of Science in Mechanical Engineering, Dynamics and Controls from the University of California, Davis.



Wendy C. Crone

Wendy C. Crone is a Professor in the Department of Engineering Physics with affiliate appointments in Biomedical Engineering and Materials Science and Engineering at the University of Wisconsin - Madison. She conducts research on nanostructured materials, composite materials, and engineered biomaterials with emphasis on improving the fundamental understanding of mechanical response of materials and cell/matrix interactions. As a sample of these results, her research group has demonstrated the capability of a shape memory alloy-based thermomechanical data storage device at the nanoscale, adapted plasma surface modifications techniques to control biocompatibility of surface oxide, developed magnetic methods for control over the position and orientation of nanowires, and provided the experimental foundation for the development of constitutive models for responsive hydrogels. She was granted a CAREER Award by the National Science Foundation, recently received the top Hot Talk/Cool Paper Award from the Materials Research Society, and is a Fellow of the University of Wisconsin - Madison Teaching Academy. Prof. Crone held the position of Vice-Chair for the MEMS and Nanotechnology Technical Division of the Society for Experimental Mechanics 2001-2006. She has also served as Faculty Co-Director of the Women in Science and Engineering Residential Program (1999-2001), Director of

Education and Outreach for the Materials Science Research and Engineering Center (MRSEC) on Nanostructured Materials and Interfaces (2001-2007); and is currently the Director of the Women Faculty Mentoring Program at the University of Wisconsin - Madison.



Douglas Adams

Dr. Douglas Adams is an Associate Professor of Mechanical Engineering at Purdue University. He received his BS and PhD from University of Cincinnati working in the Structural Dynamics Research Laboratory and his MS from MIT. He conducts research in nonlinear structural identification with application to health monitoring and noise and vibration control. He has graduated 18 MS and PhD students who have published 150 papers with Dr. Adams. He has also published a textbook on structural health monitoring and has commercialized many of his research findings. He has co-organized dozens of sessions in nonlinear systems at IMAC and has received numerous awards for research and teaching including a Presidential Early Career Award. He has delivered many short courses worldwide and has been appointed a University Faculty Scholar at Purdue.



Ramón Rodríguez-Vera

Ramón Rodríguez-Vera received his B.Sc. degree in physics from Michoacan University in 1982, his M.Sc. from Guanajuato University in 1987, and in 1993 obtained his Ph.D. from Loughborough University of Technology, England. Currently he is Optical Metrology and Computer Vision Lecturer in postgraduate programs at Centro de Investigaciones en Optica, México. He was Chair of SEM Optical Methods Division 2008-2009. His research interest areas include optical metrology employing holographic, speckle, and moiré techniques; as well as, automatic fringe analysis and computer vision. Dr. RodríguezVera has directed several bachelor and postgraduate theses. He has published more than seventy papers in international journals and presented more than ninety national and international papers in congresses, some of them as invited speaker. He is a member of the National Researchers System (SNI), level III, and the following scientific societies: SEM, OSA, SPIE, Mexican Society of Physics, Mexican Academy of Sciences, and Mexican Academy of Optics.