



# ASME Materials Division 2019 Fall News

## MESSAGE FROM THE CHAIR



Yong Zhu, Ph.D.  
2018/2019 Chair, Materials  
Division, ASME  
North Carolina State University

It has been a great honor for me to serve on the ASME Materials Division Executive Committee for the past five years (2014-2019) and as the Division Chair for the past year. I have worked with a truly remarkable and dedicated group, including past Chairs (in chronological order) **Karl Jacob** (Georgia Institute of Technology), **Junlan Wang** (University of Washington), **George Voyiadjis** (Louisiana State University), **Xi Chen** (Columbia University), and **Valeria La Saponara** (University of California, Davis). It has also been a true pleasure to work with the current Executive Committee (EC) members including **Toshio Nakamura** (Vice Chair) of the State University of New York – Stony Brook, **Philippe Geubelle** (Program Chair) of University of Illinois – Urbana and Champaign, **Min Zhou** (Program Vice Chair) of Georgia Institute of Technology, **Hareesh Tippur** (Secretary) of Auburn University, and **Caglar Oskay** (Member-at-Large and Newsletter Editor) of Vanderbilt University. I want to thank them all for their support and dedicated service to the Division.

The Executive Committee has a number of major responsibilities including conference planning and execution, oversight of its two journals, management and development of awards, and interacting with the MD technical committees. According to the EC succession plan, Toshio will become Chair; Philippe, Vice Chair; Min, Program Chair; Hareesh, Program Vice Chair; and Caglar, Secretary. An incoming EC member will be selected at IMECE 2019. I will leave my post as the Division Chair after the IMECE with much confidence that the Materials Division will continue to prosper and grow under the great leadership and dedication of the future Executive Committee as well as Technical Committees.

The Materials Division has gone through a very active and successful year in 2018-2019 with the following highlights:

**IMECE:** The Materials Division continues to play active roles in the annual ASME International Mechanical Engineering Congress and Exposition (IMECE), largely owing to the hard work of all

# Seventy Five Years Of The Asme Materials Division Md

**Emilie Sanchez**



## Seventy Five Years Of The Asme Materials Division Md:

**Seventy-five Years of the ASME Materials Division** American Society of Mechanical Engineers. Materials Division, 1995      **Chemical Abstracts Service Source Index** American Chemical Society. Chemical Abstracts Service, 1907  
A key source to journal and conference abbreviations in the sciences Although it focuses on chemistry other scientific and engineering disciplines are also well represented In addition to the abbreviation and full title each entry also contains publishing info title changes language and frequency of publication and libraries owning that title Over 130 000 entries representing more than 70 000 publications dating back to 1907 are included      **Publications of the National Institute of Standards and Technology ... Catalog** National Institute of Standards and Technology (U.S.), National Institute of Standards and Technology (U.S.). Information Resources and Services Division, 1994      Nuclear Science Abstracts , 1976-04  
Industrial Sprays and Atomization Ghasem G. Nasr, Andrew J. Yule, Lothar Bendig, 2013-04-17 An extensive critical compilation of the wide range of manufacturing processes that involve the application of spray technology this book covers design of atomizers as well as the performance of plant and their corresponding spray systems The needs of practising engineers from different disciplines project managers and works maintenance and design engineers are catered for Of interest to researchers in the field of liquid sprays the book includes outlines of the contemporary and possible future research and challenges in the different fields of application and deals with sprays and their production sprays in industrial production processes processes involving vaporisation and cooling or cleaning of gases spray surface impact processes fuel sprays for fixed plant spraying of hot surfaces for steel making and other metals spraying of molten metals Guidance is given for the analysis and interpretation of experimental data obtained using different measurement techniques      *Federal Register* , 1998-06-22      **Machinery** Lester Gray French, 1920      **Machinery** Fred Herbert Colvin, Lester Gray French, 1914  
**Index of Conference Proceedings Received** British Library. Lending Division, 1983      *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration, 1976      Directory of Published Proceedings , 1990      **Residual Stress, Thermomechanics & Infrared Imaging, Hybrid Techniques and Inverse Problems, Volume 9** Sven Bossuyt, Gary Schajer, Alberto Carpinteri, 2025-08-07 Residual Stress Thermomechanics Infrared Imaging Hybrid Techniques and Inverse Problems Volume 9 of the Proceedings of the 2015 SEM Annual Conference Exposition on Experimental and Applied Mechanics the ninth volume of nine from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on a wide range of areas including Inverse Methods Inverse Methods in Plasticity Varying Length Scales Harsh Environments Opto Acoustical Methods Hybrid Experimental Residual Stress Modelling and Advances in Measurements Thermomechanics General Material Response Infrared Imaging      Astronautics & Aeronautics , 1976      *Pure and Applied Science Books, 1876-1982* , 1982 Over 220 000 entries representing some 56 000 Library of Congress subject headings Covers all disciplines of science and

technology e g engineering agriculture and domestic arts Also contains at least 5000 titles published before 1876 Has many applications in libraries information centers and other organizations concerned with scientific and technological literature Subject index contains main listing of entries Each entry gives cataloging as prepared by the Library of Congress Author title indexes      *American Machinist, Metalworking Manufacturing*, 1968      **Mechanical Vibration** Haym Benaroya, Mark Nagurka, Seon Mi Han, 2022-07-15 The Fifth edition of this classic textbook includes a solutions manual Extensive supplemental instructor resources are forthcoming in the Fall of 2022 Mechanical Vibration Theory and Application presents comprehensive coverage of the fundamental principles of mechanical vibration including the theory of vibration as well as discussions and examples of the applications of these principles to practical engineering problems The book also addresses the effects of uncertainties in vibration analysis and design and develops passive and active methods for the control of vibration Many example problems with solutions are provided These examples as well as compelling case studies and stories of real world applications of mechanical vibration have been carefully chosen and presented to help the reader gain a thorough understanding of the subject There is a solutions manual for instructors who adopt this book Request a solutions manual here <https://www.rutgersuniversitypress.org/mechanical-vibration>      [Mechanical Engineering](#) American Society of Mechanical Engineers, 1920 History of the American society of mechanical engineers Preliminary report of the committee on Society history issued from time to time beginning with v 30 Feb 1908      **Current Programs**, 1975      □□□□□□□□□□□□□□ □□□□ □□□□□□ (Japan), 1972      Nuclear Safety, 1983

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grade m m g 2 final roadway grade m m l length of curve m

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