

BIOGRAPHICAL SKETCH

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Zbib has over 25 years of experience in academia, as an educator, researcher and administrator. He is the Director of the School of Mechanical and Materials Engineering since Aug 2003. He received his doctor of philosophy in Mechanical Engineering and Engineering Mechanics from Michigan Technological University (MTU) in 1987 in the area of solid mechanics. He was appointed to his present post at the School of Mechanical and Materials Engineering at Washington State University (WSU) in 1988, and was promoted to the rank of Professor in August 1998.

Zbib's research focuses on investigating the thermo-mechanical behavior of materials, and addresses engineering and scientific phenomena spanning the length scale from nanometer to micrometer, and occurring under extreme loading and environmental conditions, with emphasis on damage and fracture, material instabilities, dislocation theory and simulations. On the small end of the length scale spectrum, nanometer to micrometer, his work includes understanding the physical characteristics and mechanical performance of metals and composites with implications to nano-layered structures, thin films and nano-composites, such as those used in micromechanical systems, microelectronics, and medical diagnostics. On the large end of the length scale, micrometer to macrometer, he investigates the behavior of metals and geological materials under extreme conditions, such as shockwaves, metal forming and high speed machining, superplastic forming, as well as earthquake and soil engineering. His research work has been funded by many agencies, including the US National Science foundation, the US Army Research Office, Lawrence Livermore National Laboratory, Los Alamos National Laboratory, Pacific Northwest National Laboratory, ALCOA, the US National Institute of Standard and Technology, Sandia National Laboratory, the US Department of Energy, and the Washington Technology Center.

Zbib's service record includes, chairing and organizing many conferences, and organizing and chairing numerous symposia and sessions at ASME, MRS, SES, IUAM and other national and international meetings. He is the Editor of the Journal of Engineering Materials and Technology. He is a member of the Advisory Board of the International Journal of Plasticity; Member of the Board of Review of Metallurgical and Materials Transactions A; Member of the International Advisory Board: Materials Science Research International, Japan ; *Review Committee Member of the "Revue de Mecanique Appliquee et Theorique, Morocco Society of Mechanics Science"*. He was the chair of the joint ASME MD-AMD committee on constitutive equations and currently serves on the ASME-MD Executive Committee.

Zbib is a Fellow member of the ASME. He is a Member of the Academy of Mechanical Engineering and Engineering Mechanics of Michigan Tech Univ., recipient of the 2003 Computational Mechanics Achievement Award from the Japanese Society of Mechanical Engineers, the 1994 Research Excellence Award from the College of Engineering at WSU, the 1994 and 2000 Research award from the School of MME at WSU. He held two Japanese fellowships, the 1994 Research Award from the MME Department, and he was invited to deliver many Keynote lectures. He received the NSF Research Initiation Award, was nominated for the ASEE Dow Young Faculty Award, and received a NATO Fellowship. Zbib is a member of the American Academy of Mechanics, the American Society of Engineering Education, the ASME, the Society of Engineering Mechanics, the ASME-AMD-MD Joint Committee on Constitutive Equations, and the ASME committee on Instabilities in Solids and Structures Zbib's record includes 12 edited books and over 200 technical articles.