

2011-2012

Graduate Seminar Series

The Department of Mechanical Engineering – Engineering Mechanics

Proudly Presents

Dr. Jonathan D. Rogers
Manager, Strategic Weapons Studies
Sandia National Laboratories



Dr. Jonathan D. (Jon) Rogers joined Sandia National Laboratories in the fall of 1986 in the Vibration Testing Division. He worked as the test engineer for vibration and shock testing on a number of systems. Jon was the project leader for the VIBRAFUGE development project which placed a 4000 lb force rated shaker on the 29-foot underground centrifuge, and for the Acoustic Test Facility development project. This resulted in the construction of the 16,000 cu. ft., high-level chamber with combined acoustic and vibration test capabilities.

Dr. Rogers moved to Systems Studies in 1992. He has worked on a variety of studies including Advanced Manufacturing, the Impact of Technology on the Economy, and studies involving the weapons program and Underground Facilities. Jon was made a Distinguished Member of Technical Staff in 2002 and was promoted to manager in 2003. He is currently the manager of the Strategic Weapons Studies Department which focuses primarily on nuclear and conventional weapons related issues.

Jon has been an active member of the Society for Experimental Mechanics since 1981. He has served many roles for the Society, including: Member of the Executive Board, Chairman of the Technical Program for the Annual Meeting (4 times), President of the Society, Associate Technical Editor of *Experimental Techniques*, Chairman of the Editorial Council, and Treasurer. Jon has served on the external Technical Advisory Board for the AFRL Structural Sciences Center since 2007, and was chairman of the board for the 2011 review.

His professional and technical awards include: the Sandia Award For Excellence for Outstanding Performance in Conducting the Workforce Projection Analyses in Preparation for the Department of Labor Audit (1995); the Past-President Award from the Society for Experimental Mechanics (2001); the Sandia Employee Recognition Award for Individual Exceptional Service for work on defeat of underground facilities (2002); the Sandia Employee Recognition Award for Target Site Geologic Characterization Team (2002); and the Tatnall Award for Long and Distinguished Service to the Society for Experimental Mechanics (2007). He received his B.S. in Engineering Science in 1980, his M.S. in Engineering Mechanics in 1984, and his Ph.D. in Engineering Mechanics in 1986, all from Iowa State University.

Thursday, Oct. 13, 2011

4:00 – 5:00 p.m.

Room 112 MEEM

Engineering Challenges in National Security

The National Security sector provides many opportunities and challenges for engineering research, development, analysis, and application. This presentation will discuss some of these challenges and opportunities through a series of examples in various areas. The areas discussed will include: conventional and nuclear weapons effects, energy issues, penetration mechanics, and radiological threats. The presentation is intended to encourage discussion and debate on the activities described.

Funding for the ME-EM Graduate Seminar Series is provided by Professional Plating, Inc. of Anoka, MN www.proplate.com