



# CNS-UCSB

Center for Nanotechnology in Society

PRESENTS

## An Overview of Environmental Health and Safety Research at the Center for High-rate Nanomanufacturing

The NSF Nanoscale Science and Engineering Center for High-rate Nanomanufacturing (CHN) at Northeastern University, the University of Massachusetts Lowell and the University of New Hampshire conducts research on 1) Large scale directed assembly & transfer, 2) Environmental health & safety, and 3) Regulatory & ethical issues.

This talk will present an overview of CHN technologies under development, followed by summaries of projects being pursued by the working group on “Responsible Nanomanufacturing” (IRG-4). The objectives of IRG 4 have direct implications for the nanomanufacturing technologies under development at CHN, and aim to guide the overall development of sustainable production systems for nanomanufactured products.



Jacqueline A. Isaacs  
Northeastern University  
Professor of Mechanical and  
Industrial Engineering  
Associate Director of the  
Center for High-rate Nano  
manufacturing (CHN)

**Jacqueline A. Isaacs** leads the Responsible Manufacturing Research Group for the CHN. Her specific research focuses on economic and environmental assessment of manufacturing processes, most recently focused on nanomanufacturing. At CHN, her research group (IRG-4) works on Life Cycle Assessment of various processes under development and assesses alternatives to uncover more environmentally benign processes or products. Dr. Isaacs also guides research on development and assessment of educational computer games. She received a B.S. from Carnegie Mellon University and S.M and Sc.D. degrees in Materials Science and Engineering from the Massachusetts Institute of Technology.

**WEDNESDAY, FEBRUARY 9, 2011**

**1:30 - 3:00 pm**

**2320 GIRVETZ HALL**

