



MTE Seminar Series Spring Semester 2005
Materials Research at WPI excluding the MTE program faculty

- January 19 Diran Apelian
Director of Metal Processing Institute
China Travels
- February 2 Katherine Macchiarola
XRD Product Marketing Manager, PANalytical, Inc.
***Modern X-ray Diffraction: An Essential Tool for
New Materials Research***
- February 9 Dr. Frank Addressio
Los Alamos National Laboratory
Computational Materials Modeling
- February 23 Sujoy Chaudhury, Research Associate
Metal Processing Institute
Solution Heat Treatment of Cast Al Alloys Using a Fluidized Bed
- March 3 Dr. Jinwu Kang
Tsinghua University, Beijing, China
Numerical Simulation of Thermal Stresses of Castings
- March 16 Olly Karabelchtchikova
Materials Science and Engineering
***Modeling of Multipass Grinding Effect on Residual Stresses
Distribution D2 Thread Rolling Dies***
- March 17 Prof. Xinyu Shao
Dean of School Mechanical Engineering, HUST, Wuhan, CHINA
***Mechanical Engineering Education and Research at Huazhong
University of Science and Technology***
- March 30 Brian Dewhirst
Materials Science and Engineering
***Effect of Artificial Aging on Microstructure and Tensile Properties of
Semi-Solid Processed Aluminum Castings***
- April 6 Shuhui Ma
Materials Science and Engineering
***Modeling the structure-processing-property relationships for heat
treated cast aluminum alloys***
- April 13 William J. Bernard, III
Materials Science and Engineering
***The Continuous Rheoconversion Process (CRP): Modeling and
Optimization***
- April 21 Morris E. Fine
Walter P. Murphy and Technological Institute, Northwestern University
***Alloy design and development; Steels strengthened by nanoscale
precipitates***
- April 27, 2005 Carol Simpson, Ph.D.
WPI Provost and Senior Vice President
***Use of Preserved Microstructures in Natural Minerals to Reconstruct
Past Motions of Earth's Tectonic Plates***

Materials Science and Engineering
Washburn 323
Wednesdays 11:00 - 12:50

