



## Mechanical and Industrial Engineering Colloquium Series

### SPRING 2006

All lectures are held at 3:00 p.m. Social period begins at 2:45 p.m.  
Please note seminar location.

| DATE   | SPEAKER                                                                                                                                                  | TITLE                                                                                                                | ROOM            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|
| Jan 27 | <b>Prof. James C. Benneyan</b><br><i>Dept. of Mechanical &amp; Industrial Engineering<br/>Northeastern University</i>                                    | <b>"Healthcare Quality and Reliability Models"</b>                                                                   | Shillman<br>135 |
| Feb 3  | <b>Prof. Neville Hogan</b><br><i>Dept. of Mechanical Engineering<br/>Dept. of Brain and Cognitive Sciences<br/>Massachusetts Institute of Technology</i> | <b>"Control –Relevant Models for Bio-Mimetic Materials"</b>                                                          | Shillman<br>135 |
| Feb 10 | <b>Dr. Darren K. Brock</b><br><i>Special Projects Organization<br/>Nantero, Inc., Woburn, MA</i>                                                         | <b>"Engineering a Molecular Microswitch -- Harnessing Nanoscale Phenomena With Present-day Tools and Techniques"</b> | Shillman<br>135 |
| Feb 17 | <b>Prof. Marianthi Ierapetritou</b><br><i>Dept. of Chemical &amp; Biochemical Engineering<br/>Rutgers University</i>                                     | <b>"Modeling of Reactive Flows Using an Adaptive Chemistry Scheme"</b>                                               | Shillman<br>135 |
| Feb 24 | <b>Prof. Steven Dubowsky</b><br><i>Department of Mechanical Engineering<br/>Massachusetts Institute of Technology</i>                                    | <b>"Digital Mechatronics Based on Polymer Muscle Actuators for Robotic Systems"</b>                                  | Shillman<br>135 |
| Mar 17 | <b>Dr. Helmut Kaufmann, Managing Director</b><br><i>ARC Leichtmetallkompetenzzentrum Ranshofen GmbH, Austria</i>                                         | <b>"Influence of Alloy Composition, Process Parameters and Geometrical Aspects on Fluidity of Semi-Solid A356"</b>   | Shillman<br>135 |
| Mar 24 | <b>Prof. Nancy Burnham</b><br><i>Dept. of Physics<br/>Worcester Polytechnic Institute</i>                                                                | <b>"Puzzles of Atomic Contact"</b>                                                                                   | Shillman<br>135 |
| Mar 31 | <b>Prof. Pinar Menguc</b><br><i>Dept. of Mechanical Engineering<br/>University of Kentucky</i>                                                           | <b>"Nano-Scale Machining and Characterization: From Electron-Beams to Evanescent Waves"</b>                          | Shillman<br>135 |
| Apr 7  | <b>Prof. Anette Hosoi</b><br><i>Department of Mechanical Engineering<br/>Massachusetts Institute of Technology</i>                                       | <b>"Building a Better Snail: Lubrication and Adhesive Locomotion"</b>                                                | Shillman<br>135 |

For further information, contact the Department of Mechanical and Industrial Engineering, 334 Snell Engineering Center, Northeastern University, 360 Huntington Avenue, Boston, MA, 02115. Tel: (617) 373 2186; (Fax) 617 373 2921.