

JOINTS WORKSHOP MEETING SCHEDULE HOLIDAY INN, ARLINGTON

First Day: Monday, October 16, 2006

- 08:00 - 09:00** Registration and continental breakfast
- 09:00 - 09:15** Workshop opening and short briefing, Dr. Larry Bergman
- 09:15 - 09:35** General welcome and the DOE perspective and goals for the workshop, Dr. Kevin Greenaugh, US Department of Energy
- 09:35 - 09:55** NSF perspective and discussion of the final outcome/roadmap, Dr. Adnan Akay, NSF
- 09:55 - 10:15** Coffee break
- 10:15 - 11:00** Technical presentation: *Broad overview of joint problems in non-rotating machinery/other applications and research problem definition*, Dr. Dan Segalman, Sandia National Labs
- 11:00 - 11:45** Technical presentation: *Broad overview of joint problems in high-performance and rotating machinery, including perspectives from the standpoint of structural dynamics and fretting fatigue*, Drs. David Ewins, Evgeny Petrov and David Nowell, Imperial College & University of Oxford
- 11:45 - 13:30** Lunch
- 13:30 - 14:00** Technical presentation: *Contact and Friction: Connecting Atomic Interactions to Macroscopic Behavior*, Dr. Mark Robbins, Johns Hopkins University
- 14:00 - 14:45** Technical presentation: *Significance of Interfacial Micro-Scale Parameters on the Dynamics of Structures Containing Mechanical Joints*, Dr. Andreas Polycarpou, UIUC
- 14.45 – 15.00** Coffee break
- 15:00 - 15:45** Technical presentation: *Contact asymptotics with particular application to quantifying Fretting Damage*, Dr. David Hills, Oxford University
- 15:45 - 16:30** Technical presentation: *A Multiscale Framework for Bridging Material Length Scales and Consistent Modeling of Strong Discontinuities in Mechanical Joints*, Dr. Arif Masud, UIUC
- 16:30 - 17:15** Summary; identification of breakout groups, chairs and secretaries

Second Day: Tuesday, October 17, 2006

08:00 - 08:30 Continental breakfast
08:30 - 09:00 Group briefing
09:00 - 10:00 Breakout sessions
10:00 - 10:15 Coffee break
10:15 - 11:45 Breakout sessions
11:45 - 13:15 Lunch
13:15 - 14:15 Group discussion
14:15 - 15:30 Breakout sessions
15:30 - 15:45 Coffee break
15:45 - 16:45 Breakout sessions
16:45 - 17:15 Group discussion

Third Day: Wednesday, October 18, 2006

08:00 - 08:30 Continental breakfast
08:30 - 09:00 Group briefing
09:00 - 10:30 Breakout group presentations
10:30 - 10:45 Coffee break
10:45 - 11:30 Assessment and formulation of recommendations
11:30 - 12:00 Summary and writing assignments