

Review Schedule

Wednesday 15 October

DURINT Review

Morning: Chair – Robert Shaw (ARO)

08:00 – 08:15 Welcome - Speaker to-be-named

08:15 – 08:30 Remarks - David Mann (ARO)

08:30 – 09:00 Overview of the DURINT: M. R. Zachariah (U of Minn.)

09:00 – 09:45 Synthesis and Characterization on Nanocrystalline Oxidizer/Monopropellant Formulations: T. Brill (U of Del.)

09:45– 10:15 High Rate Production of Nanoparticles: S. Girshick (U of Minn.)

10:15 – 10:45 Break

10:45 – 11:15 Numerical Simulation of Al Formation and Growth in Turbulent Flows: S. Garrick (U of Minn.)

11:15 – 11:30 Phenomenological Modeling NanoParticle Burning: A. Rai (U of Minn)

11:30 – 12:45 Lunch

Afternoon: Chair – David Mann (ARO)

12:45- 13:20 Kinetic Measurements of Aluminum Particle Oxidation: K. Park (U of Minn)

13:20 –13:45 Atomistic Modeling of the Properties and Reactivity of Nanoparticles: M. Zachariah, (U of Minn)

13:45 - 14:30 Measurements of Reactivity of Energetic Materials: J. Puszynski (SDSMT)

14:30 – 15:00 New Inorganic Based NanoEnergetic NanoComposites: A. McCormick, A. Prakash (U of Minn.)

15:00 – 15:30 Break

15:30 – 16:15 Simulations of Nanoparticles of Energetic Molecules D. Thompson (OSU)

16:15 – 17:00 The Development of Potential Functions for Molecular Dynamics Calculations on Al: D. Truhlar, N. Schultz (U of Minn.)

17:00 – 18:00 DURINT Questions/Discussion period

No-Host Dinner for as Many MURI, DURINT, Army, and Others As Can Make it

Thursday 16 October

MURI Review

Morning: Chair - David Mann

08:00 – 08:15 Remarks - Robert Shaw

08:15 – 08:45 Overview Of The MURI: Don Thompson (Oklahoma State U)

08:45 – 09:30 Quantum Simulation of Materials under Extreme Conditions: Richard Martin and David Ceperley (U Illinois)

09:30 – 10:15 *Ab Initio* Predictions of PES for Chemical Reactions: Rod Bartlett (U Florida)

10:15 – 10:45 Break

10:45 – 11:30 Structure-Density-Heat of Formation- Sensitivity Predictions: Herman Ammon (U Maryland)

11:30 – 12:15 Simulation of Physical/Chemical Processes in Gas, Liquid, Solid Phases: Don Thompson

12:15 - 13:15 Lunch

Afternoon: Chair – Robert Shaw

13:15 - 14:00 Prediction of Separation and Solvation Behavior:

Donald Truhlar, Chris Cramer (U Minnesota)

14:00 - 14:45 Gas-Condensed Phase Interactions: Flame-Surface Heat Exchange

John E. Adams (University of Missouri, Columbia)

14:45 – 15:15 Break

15:15 – 16:00 Questions/Discussion on MURI Presentations