

***The Fourth Annual
Northeast Ohio Undergraduate
Research Symposium***

August 2, 2007

Hosted by the Ohio Aerospace Institute and NASA Glenn Research Center

Agenda

- 8:00 – 8:40 Registration
- 8:40 – 9:00 Welcoming Remarks – OAI and NASA
- 9:00 – 9:20 Charles Sing, Case Western Reserve University
Time-Temperature Indicators in High Temperature Applications
Advisor: Dr. Christoph Weder, Case Western Reserve University
- 9:20 – 9:40 Emily Hagan, Hiram College
Boundaries of Gecko Adhesion: Surfaces and Temperatures
Advisor: Dr. Ali Dhinojwala, The University of Akron
- 9:40 – 10:00 Andrew Konya, Kent State University
Modeling Defect Dynamics in Liquid Crystals
Advisor: Dr. Robin Selinger, Kent State University
- 10:00 – 10:20 Ashley Carbaugh, Washington and Jefferson College
Synthesis and Chemosensory Characterization of Substituted Anthracene Bisimide Derivatives
Advisors: Dr. Daniel Tyson, Dr. Michael Meador, NASA Glenn Research Center
- 10:20 – 10:40 *Break*
- 10:40 – 11:00 Greg Zartman, The University of Akron
Calculation of Modulus of Sheet Silicates Using Molecular Dynamics Simulation
Advisor: Dr. Hendrik Heinz, The University of Akron
- 11:00 – 11:20 Rocco Viggiano III, Penn State University, Erie
Incorporation of Chalcogenide Glasses as an Oxygen Permeation Barrier in Selected Polymers
Advisors: Dr. David Schiraldi, Mr. Mohit Gupta, Case Western Reserve University
- 11:20 – 11:40 Cory Criss, Westminster College
Gold Nanoparticle Mediated Cellular Delivery of the Natural Product Curcumin
Advisor: Dr. Soumitra Basu, Kent State University
- 11:40 – 12:00 Amanda Weber, University of South Dakota
Di-epoxy Crosslinked Aerogels Using Ethanol as an Environmentally Friendly Solvent
Advisor: Dr. Mary Ann Meador, NASA Glenn Research Center
- 12:00 – 1:00 Lunch
- 1:00 – 3:00 Tour of NASA Facilities
- 3:00 – 4:30 Posters