



Thermal Analysis Forum of Delaware Valley **TAFDV Spring Symposium**

2010

LRSMI

The Laboratory
for Research on
the Structure
of Matter

Application of Thermal Analysis & Calorimetry in Materials Research

March 12, 2010

9:00 AM – 4:30 PM

Laboratory for Research on the Structure of Matter

University of Pennsylvania

3231 Walnut Street, Philadelphia, PA 19104

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| 8:15-8:50am | Registration, Coffee, Exhibit and Posters set up. |
| 8:50-9:00 | Introduction: Andrew R. McGhie, LRSMI, Program Chairman
Steven Sauerbrunn, Mettler, President TAFDV |
| 9:00-9:40 | “The Glass Transition in Semicrystalline Polymers”
Joseph Menczel, Alcon Inc. (retired) |
| 9:40-10:00 | “The Search for Kinetics Reference Materials”
Roger Blaine, TA Instruments (retired) |
| 10:00-10:20 | “Thermosets: How To Avoid Incomplete Curing”
Steve Sauerbrunn, & Rudolf Riesen, Mettler- Toledo |
| 10:20-10:50 | Break, Exhibits, and Posters |
| 10:50-11:10 | “You’re Doing What With Your Thermal Analyzer?
Thermal Analysis for the Study of Soil Organic Matter.”
Alain F. Plante and Jose Fernandez, Dept. Earth & Env. Science, University of Pennsylvania |
| 11:10-11:30 | “On the Stability of Mg Nanograins to Coarsening after Repeated Melting”
Babak Anasori, Shahram Amini, Jose´ M. Cordoba Gallego, Luke Daemen, Andrew R. McGhie,
Chaoying Ni, Lars Hultman, Magnus Oden, and Michel W. Barsoum, Drexel University |
| 11:30-11:50 | “Resistivity thermal profiles of Titanium Carbide derived Carbons”
Preethi Gopu ¹ , Mariem Rosario-Canales ¹ , Patrick M Vora ¹ , James Kikkawa ¹ , Carlos R Perez ² ,
Yury Gogotsi ² , Jorge Juan Santiago Aviles ¹ ¹ University of Pennsylvania, ² Drexel University |
| 11:50-1:10 | Lunch at & Tour of NATAS Conference Site, Houston Hall, Univ. of Penn. |
| 1:10-1:50 | “World Wide Acceptance of Dsc Oxidative Stability Testing by Oxidation Induction Time (OIT)
and Oxidation Onset Temperature (OOT) of Petrochemicals, Bio-chemicals, Polymers and Drugs.”
(ASTM Dudley Awardee)
Alan J. Riga, Cleveland State University |
| 1:50-2:10 | “Dynamic Mechanical Analysis (DMA) and the Acoustic Properties of Polymers”
Thomas S. Ramotowski, Naval Undersea Warfare Center, Newport, RI |
| 2:10-2:30 | “Dynamic Mechanical Analysis Under Controlled Conditions of Temperature & Relative Humidity”
Gray Slough, TA Instruments |
| 2:30-3:00 | Break, Exhibit, and Posters |
| 3:00-3:20 | “Battery Safety Applications of a New Benchtop Calorimeter”
Peter Ralbovsky and David Shepard, Netzsch Inc. |
| 3:20-3:40 | “Calvet Calorimetry for Challenging Thermal Analysis Applications”
Andre A. Levchenko, Nelson Garcia, Tom Basalik Setaram Inc., Newark, California, U.S.A.,
Pierre Le Parlouer, Setaram Instrumentation, Caluire, France |
| 3:40-4:00 | “Amorphous and Crystalline Content of Drugs by Dielectrics, Calorimetry and
Wide Angle X-Ray Diffraction Analysis.”
Pavan Maheswaram, Cleveland State University |
| 4:00-4:20 | “Characterization and Drug Transport of Bipolar Disorder Drugs by Dielectric Analysis and DSC.”
Hareesha Venumuddala, Cleveland State University |



Registration Fee: \$50, Students & Retirees \$20
(includes lunch and refreshment breaks)

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