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2016 Thermal Analysis Forum of the Delaware Valley (TAFDV) Spring Symposium

Bio/Nano/Materials Interface

Wednesday, April 13, 2016
Schedule & Invited Talks

8:15-8:50am Registration & Continental Breakfast
8:50-9:00am Welcome
9:00-9:30am Dr. Mike Zdilla, Temple University
“Salt-organic co-crystalline electrolytes”
9:30-10:00am Dr. Jonathan Goff, Gelest
“Novel Gelest silicone elastomers”
10:00-10:20am Break & Poster Session
10:20-10:50am Dr. Xiao Hu, Rowan University
“Silk based composite materials”
10:50-11:10am Dr. Omar Z. Fisher, Temple University
“Polyphenolic Biotherapeutics”
11:10-11:40am Dr. Joel Rosenthal, University of Delaware
“Tailoring the Interfacial Structure and Dynamics of Conducting Substrates for Electrocatalsysis”
11:40am-12:00noon Dr. Elena Moukhina, Netzsch
“Automatic Evaluation of DSC and TGA data”
12:00noon-1:10pm Lunch
1:10-1:50pm Dr. Andrew Teplyakov, University of Delaware
“Thermal Chemistry of Semiconductor Surfaces: Organic and Metallocrystal Functionalization for Interface Formation and Film Growth”
1:50-2:10pm Dr. Bojeong Kim, Temple University
“Remediation of Organic Toxins using Supported Lipid Bilayers”
2:10-2:30pm Dr. Antonio Perazzo, Princeton University
“Flow induced gelation of microfiber suspensions”
2:30-2:50pm Break, Poster Session, & Instrument Exhibition
2:50-3:10pm Dr. Philip Griffin, University of Pennsylvania
“Unusual Temperature Effects on Polymer Diffusion in Nanocomposites”
3:10-3:30pm Dr. Kristina Liouva, Setaram, Inc.
“Thermal analysis and calorimetry studies of the surface and interfacial energetics at nanoscale”
3:30-3:50pm Dr. Gray Slough, TA Instruments
“Advances in DSC: Eliminating Post Test Processing”
3:50-4:10pm Dr. Marc Illes, Temple University
“Liposomal Drug Delivery Systems for Carbonic Anhydrous Inhibitors”
4:10pm Closing Remarks

Posters

“Lithium Ion Batteries: Rheology-Driven Processing”, Samantha Morelli and Maureen Tang, Department of Chemical and Biological Engineering, Drexel University

“All Solid-State Lithium Metal Batteries Using Cross-Linked Polymer Electrolytes”, Qiwei Pan and Christopher Li, Department of Materials Science and Engineering, Drexel University

“Mesomorphic properties of side-chain polynorbornene containing mono-, di- and tri-calicic mesogenic pendant groups”, Xiaofang Chen, College of Chemistry, Chemical Engineering and Materials Science, Soochow University, China, and Department of Materials Science and Engineering, Drexel University

“Comparison of TGA Methods to Determine Decomposition Kinetic Parameters”, L. Judovits & E. Kowal, Arkema, Inc.

“Robust cellulose-based solid electrolytes yielding high conductivity and moduli for electrochemical device applications”, Ramya Mantravadi, Stephen DiLuzio, Parameswara Rao Chinnam and Stephanie L. Wunder, Temple University

“Ionogels from PYR$_3$TFSI/LiTFSI and methyl cellulose as electrolytes for Lithium Ion batteries”, Sumanth Chereddy, Ramya Mantravadi, Parameswara Rao Chinnam and Stephanie L. Wunder, Temple University

“High ionic conductivity ionogels from tetraglyme/TFSI in methyl cellulose with MPa moduli”, Sumanth Chereddy, Parameswara Rao Chinnam and Stephanie L. Wunder, Temple University

“NaClO$_4$(DMF)$_2$ solid electrolytes for sodium ion batteries”, Parameswara Rao Chinnam, Birane Fall, AbdelAziz Jallil, Megan Van Vliet, Clifton R. Hamilton, Stephanie L. Wunder and Michael J. Zdilla

“Effect of Moisture on the Phase Stability of Cesium Lead Iodide (CsPbI3) Perovskite”, Subham Dasdar, Aaron Fafarman, Chemical & Biological Engineering Department, Drexel University

“Crystallinity and Processing Effects on the Rigid Amorphous Fraction of Poly(3-hexylthiophene)”, Roddel Remy, Michael Mackay, Department of Materials Science and Engineering, Department of Chemical and Biomolecular Engineering, University of Delaware

“Efficient Reduction of CO2 to Solar Fuels using a Bismuth Carbon Monoxide Evolving Catalyst”, Stephanie Velardo, University of Delaware