13th Annual Northeast Ohio Undergraduate Research Symposium

Thursday, August 4th, 2016

Hosted by: The College of Polymer Science and Polymer Engineering at The University of Akron

- Case Western Reserve University
- Kent State University
- NASA Glenn Research Center
- The University of Akron



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The University of Akron College of Polymer Science and Polymer Engineering





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Agenda - Thursday, August 4th, 2016

| 3:30 | Adjourn | 3rd Floor Atrium |
|--|--|--------------------------|
| 2:30-3:30 | Poster Session 21-42 | GDYR |
| 2:15-2:30 | Chelsea Zoltowski, Bluffton University, Understanding the Role of Humidity and Surface Chemistry in Gecko Adhesion (Advisors: Dr. Ali Dhinojwala, Saranshu Singla, The University of Akron) | GDYR Auditorium 229 |
| 2:00-2:15 | Mason Dearborn, University of Southern Mississippi, <i>Exploring a Multi-Layered</i> <i>Polysulfone/Polyamide 6,6 System for Fibrous Filtration</i> (Advisors: Dr. Eric Baer, Cong Zhang, Xinting Wang, Case Western Reserve University) | GDYR Auditorium 229 |
| 1:45-2:00 | Alexander Weber, The University of Akron, <i>The Effects of Substrate on Morphology of Solvent-Swollen Block-Copolymer Thin Films</i> (Advisors: Dr. Alamgir Karim, Dr. Mesfin Tsige, student mentor, The University of Akron | GDYR Auditorium 229 |
| 1:30-1:45 | José J. Maldonado Méndez, Universidad de Puerto Rico – Río Piedras, <i>Polyamide Aerogels Cross-linked to Enhance the Strength of the Polymer Chain Backbone</i> (Advisors: Dr. Baochau N. Nguyen, Dr. Mary Ann Meador, Dr. Rocco P. Viggiano, NASA Glenn Research Center) | GDYR Auditorium 229 |
| Afternoon Session (Moderator: Gregory Brown) | | |
| 12:30-1:30 | Lunch | GDYR 2nd Floor Atrium |
| 12:15-12:30 | Group Picture | GDYR Circle |
| 11:15-12:15 | Poster Session 1-20 | GDYR 3rd Floor Atrium |
| 10:15-11:15 | Keynote Speaker, Dr. Todd Allan Blackledge, The University of Akron Spider Silk: A 400 Million Year Experiment in Materials Science | GDYR Auditorium 229 |
| 9:55-10:15 | Break | GDYR Auditorium 229 |
| 9:40-9:55 | Lindsay Robinson, College of Wooster, Synthesis and Characterization of Linear and Hyperbranched Amino Acid - Based Poly (esterurea)s for Hernia Mesh Repair (Advisors: Dr. Matthew Becker, Nathan Z. Dreger, The University of Akron) | GDYR Auditorium 229 |
| 9:25-9:40 | Victoria Volk, St. Ambrose University, Design of Aperture Sensor for Sensory Restoration Prosthesis (Advisors: Dr. Dustin Tyler, Emily Graczyk, Case Western Reserve University) | GDYR Auditorium 229 |
| 9:10-9:25 | Nate Orndorf, Grand Valley State University, Effects of Precursor Solvent Polarity on the Organolead Halide Perovskite Photoactive Layer in Perovskite Solar Cells (Advisors: Dr. Xiong Gong, Kai Wang, The University of Akron) | GDYR Auditorium 229 |
| 9:00-9:10 | Opening remarks | GDYR Auditorium 229 |
| Morning Session (Moderators: Alessandro Perego, Amy Seymore) | | |
| 8:00-9:00 | Registration and morning hospitality | GDYR 2nd floor Atrium |