The conference co-chairs thank the many people in the college who have assisted in organizing and planning the event.

Thanks to the Akron Global Polymer Academy for the program graphic design.



## **Symposium Organizers**

### Dr. Alamgir Karim

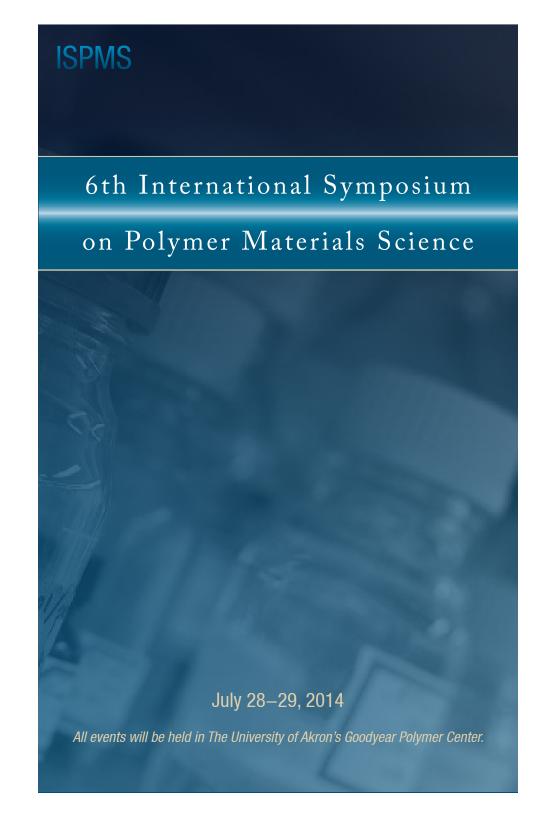
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### Dr. Qui Tran-Cong-Miyata

Department of Macromolecular Science and Engineering Graduate School of Science and Technology Kyoto Institute of Technology, Kyoto, Japan

#### Dr. Eric K. Lin

Materials Science and Engineering Division Material Measurement Laboratory National Institute of Standards and Technology (NIST), Gaithersburg, Maryland, USA



Monday, July 28th, 2014	
8:30 A.M.	Registration & Continental Breakfast
8:50 A.M.	Welcome and Introductions, Stephen Z.D. Cheng (UA)
9:00 A.M.	Memory Effect in the Modulus of Hydrogen Bonded Polymer Systems, <b>Osamu Urakawa (OSAKA UNIV.)</b>
9:30 A.M.	Metrology to Determine the Underpinning of Advanced Material Separations, <b>Kathryn Beers (NIST)</b>
10:00 A.M.	Break
10:20 A.M.	Recent Development of Photorefractive Polymers for Updatable Holographic 3D Display, <b>Naoto Tsutsumi (KIT)</b>
10:50 A.M.	Assembled Carbon Nanomaterials for Energy Storage Applications, <b>Yu Zhu (UA)</b>
11:20 A.M.	Micellization and Phase Separation in Aqueous Solutions of Thermoresponsive Block Copolymers, <b>Takahiro Sato (OSAKA UNIV.)</b>
11:50 A.M.	Announcements, Alamgir Karim (UA)
12:00 P.M.	Lunch Break
1:30 P.M.	Design of Biomaterials With Densely Functionalized Pendant Groups, <b>Abraham Joy (UA)</b>
2:00 P.M.	Determination Of Thickness Distribution Of Crystalline Lamellae By Small–Angle X–Ray Scattering And Changes In The Thickness Distribution In A Heating Process For Poly(D,L–Lactide) / Poly(Oxyethylene) Blends, <b>Shin Sakurai (KIT)</b>
2:30 P.M.	Glass Formation in Nanostructured Polymers, <b>David Simmons (UA)</b>
3:00 P.M.	Break
3:20 P.M.	Surface Fluctuations of Polymer Melt Films: The Role of Chain Architecture, <b>Mark Foster (UA)</b>
3:50 P.M.	Measurement of the Swelling of Supramolecular Hydrogel Thin Films: Challenges and Opportunities Using Spectroscopic Ellipsometry and QCM–D, <b>Bryan Vogt (UA)</b>
4:20 P.M.	Poster Session (Goodyear Polymer Center 2nd Floor)
6:00 P.M.	Barbeque Grill (Outside Goodyear Polymer Center, Ticketed Event)

# Tuesday, July 29th, 2014

8:00 A.M.	Registration & Continental Breakfast
8:30 A.M.	Welcome and Symposium Updates, Eric Lin (NIST), Qui Tran–Cong–Miyata (KIT)
8:50 A.M.	Photopolymerization—driven Phase Separation of Polymer Blends: From Binary to Ternary Systems with Applications, <b>Qui Tran—Cong—Miyata (KIT)</b>
9:20 A.M.	Assisted Reduction of Abdominal Adhesion by an Electro–Spun Non–woven Membrane and Some Functional Applications, Charles Han (CAS)
9:50 A.M.	Early Stage Kinetics of Polyethylene Crystallization, Kalman Migler (NIST)
10:20 A.M.	Break
10:40 A.M.	Preparation and Characterization of Knotted Ring Polymers, Atsushi Takano (NAGOYA UNIV.)
11:10 A.M.	Fast Polymer Dynamics and Ion Transport In Model Single Ion Conductors, <b>Christopher Soles (NIST)</b>
11:40 A.M.	New Science on the Back of Scotch™ Tape, Ali Dhinojwala (UA)
12:10 P.M.	Lunch Break
1:30 P.M.	13C NMR Spectra and Relaxation Time of Rubber Materials, Atsushi Asano (NATIONAL DEFENSE ACADEMY, JPN)
2:00 P.M.	"Z" orientation Roll to Roll Manufacturing of Functional Films at the National Polymer Innovation Center, <b>Miko Cakmak (UA)</b>
2:30 P.M.	Single Junction Polymer Solar Cells with over 10% Efficiency by Novel Two–Dimensional Donor–Acceptor Conjugated Copolymer, <b>Xiong Gong (UA)</b>
3:00 P.M.	Unification of Polymer Rheology and Molecular Mechanics of Polymer Glasses: Emerging Paradigms, <b>Shi–Qing Wang (UA)</b>
3:30 P.M.	Closing Remarks, Eric Amis (UA)
3:40 P.M.	Tour of National Polymer Innovation Center (NPIC)
4:30 P.M.	End of program





