INSTITUTE FOR POLYMER RESEARCH CELEBRATING 31 YEARS OF OFFICIAL INSTITUTE STATUS

THIRTY-SEVENTH ANNUAL SYMPOSIUM

ON POLYMER SCIENCE/ENGINEERING 2015

Conrad Grebel College

Great Hall

University of Waterloo, Waterloo, Ontario Wednesday, May 6, 2015

8:30 a.m.	Coffee		
8:50	Welcome and Opening Remarks		
9:00 - 9:20	Marzieh Rianhinezhad , Chemical Engineering, Waterloo Relationships between copolymerization kinetics and structural properties of acrylamide/acrylic acid copolymer (Winner of the 2014 IPR Award for Academic Excellence in Polymer Science/Engineering)		
9:20 - 10:00	Industry Speaker: Dr. James Taylor BASF		
	Title: Glass Transition Evolution of Plasticized Latex Films		
10:00 – 10:25	 5-Min. Mini Presentations 1) Yu Chai		
10:25 - 10:45	Coffee		
10:45 - 11:05 11:05 - 11:25	Alison Scott Reactivity ratio estimation for AMPS/AAm and AMPS/AAc copolymers: a comparative experimental study Mike Fowler Effect of Sequence on the Ionization Behaviour of a Series of Amphiphilic Polypeptides		

11:25 – 12:00	 5-Min. Mini Presentations 6) Yung Priscilla Lai Development of weak cation exchange membrane absorber materials for protein capture 7) Mosa Alsehli Arborescent polypeptides for sustained drug release 8) Yinghui He Developing Novel Materials for Perovksite Solar Cells. 9) Li Chen Enhanced catalytic property of gold nanoparticles loaded on polyamidoamine dendrimer-grafted cellulose nanocrystals 10) Dapeng Liu Temperature stimulated self-assembly of metal organometallic polymer PFpP in DMSO 	
12:00 - 1:00	Lunch	
1:00 - 1:40	Industry Speaker: Dr. Bryce McGarvey, Imperial Title: Polymers in the Petroleum Industry: From Additive Chemistry to Feedstock Production to Equipment Fouling	
1:40 – 2:00	Kate Stewart Tips for selecting polymeric ethanol-sensing materials: Detection mechanisms and sensing materials	
2:00 – 2:20	Remi Casier Use of Pyrene Excimer Fluorescence to Probe Polymer Chain Diffusion between Latex Particles during Film Formation	
2:20 - 2:40	Shiva Farhangi Novel Pyrenyl Derivative to Probe Polymer Polarity	
2:40 - 3:00	Behnam Meschi Amoli, Chemical Engineering, Waterloo	
systems	Title: Hybrid epoxy-based conductive composites with Macro/nano filler (Winner of 2014 IPR Award for Academic Excellence in Polymer	
	Science/Engineering)	
3:00 - 3:20	Coffee	
3:20 - 3:40	Nishil Mohammed Cellulose nanocrystals incorporated hydrogels for wastewater treatment	
3:40 - 4:00	Vo Thu An Nguyen	
4:00 - 4:20	Magnetic micelles as therapy and diagnostic (theranostic) agents Shuixiu Lai Sorptive separation of phenolic compounds from wastewater	
4:20 – 4:40	Nimer Murshid Synthesis and Self-Assembly of Iron-Carbonyl Amphiphilic Macromolecules	
4:40 – 5:00	Ryan Amos	

Synthesis of Vegetable Oil-E	Based Resins
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5:00	Closing remarks
6:00 - 7:30	IPR Industrial Member DINNER University Club, Main Dining Room
7:30 - 9:00	Poster Presentations and Informal Get-together University Club, Main Dining Room (IPR graduate students/researchers and symposium participants)

Poster presentations follow on next page

INSTITUTE FOR POLYMER RESEARCH THIRTY-SEVENTH ANNUAL SYMPOSIUM ON POLYMER SCIENCE/ENGINEERING 2015 POSTER SESSION WEDNESDAY, MAY 6, 2015 UNIVERSITY CLUB

7:30 – 9:00 pm

Akilu Worku		
Chemistry, Waterloo	Polyion complexes for the preparation of gold nanoparticles	
Mosa Alsehil		
Chemistry, Waterloo	Arborescent polypeptides for sustained drug release	
Sun Bi	A high mobility pyridine-flanked DPP-based polymer showing ambipolar and n-type unipolar transport performance in organic thin film transistors	
Chem. Eng., Waterloo		
Yinghui He	(3E,7E)-3,7-Bis(2-oxoindolin-3-ylidene)-5,7-dihydropyrrolo[2,3-f]indole-2,6(1H,3H)-dione based polymers for ambipolar organic thin film transistors	
Chem. Eng., Waterloo		
Alison Scott	Contrasting binary and ternary reactivity ratios for AMPS, AAm and AAc	
Chem. Eng., Waterloo		
Lu Li	Characterization of Structure and Dynamics of Starch Nanoparticles by	
Chemistry, Waterloo	Fluorescence	
Yu Chai	Crystallization of low molecular weight atactic polystyrene	
Physics and Astronomy, Waterloo		
Yung Priscilla Lai	Development of weak cation exchange membrane adsorber materials for protein capture	
Chemistry, Waterloo		
Nicholas Lanigan	Truss Arrangement of Iron Atoms in Supramolecular Polymers	
Chemistry, Waterloo		
Paulina Arczewska	Effects of alkaline environment on mechanical properties of Glass Fiber	
Civil and Envi. Eng., Waterloo	Reinforced Polymer (GFRP) bars	
Justin Raimbault	Probing the Interactions between Hydrophobically Modified Water-	
Chemistry, Waterloo	Soluble PEOs by Pyrene Excimer Fluorescence	