

INSTITUTE FOR POLYMER RESEARCH
SILVER SYMPOSIUM
TWENTY-FIFTH ANNUAL SYMPOSIUM
ON POLYMER SCIENCE/ENGINEERING
2003

Held at:
Conrad Grebel College
Great Hall
University of Waterloo
Waterloo, Ontario
Thursday, April 24 – Friday, April 25, 2003

THURSDAY, APRIL 24, 2003

- 8:30 a.m. **Coffee**
- 8:50 **Welcome and Opening Remarks**
- 9:00 - 9:30 **Monica Haag, Chemical Engineering, Waterloo**
Comparing strategies for the synthesis of polyolefinic thermoplastic elastomers via macromonomer
- 9:30 - 10:00 **Abdul Munam, Chemistry, Waterloo**
Cross-linked latex particles as low-density fillers for rubber
- 10:00 - 10:30 **Gabriel Njikang, Chemistry, Waterloo**
Amphiphilic arborescent copolymers for microencapsulation applications
- 10:30 - 11:00 **Coffee**
- 11:00 - 11:30 **Anthony Shin, Chemical Engineering, Waterloo**
In-situ preparation of polymer-clay nanocomposites
- 11:30 - 12:00 p.m. **Zhaoqi Zhu, Chemical Engineering, Waterloo**
Electrostatic self-assembly: a potential way of making ultrathin separating layer of composite membranes
- 12:00 - 1:30 **Lunch**
- 1:30 - 2:00 **Li Liu, Chemical Engineering, Waterloo**
Membranes for CO₂ separation from N₂

- 2:00 - 2:30 **Karen Xiao, Chemical Engineering, Waterloo**
Extrusion characteristics of HDPE-wood composites
- 2:30 - 3:00 **(Mexican scholarship holder) (Title TBA)**
- 3:00 - 3:30 **Coffee**
- 3:30 - 4:30 **Informal Discussions with Graduate Students and IPR Researchers
and/or Optional Tours of Facilities**
- 4:30 - 5:30 **IPR Industrial Advisory Board MEETING**
University Club, Burgundy Room
- 6:00 - 7:30 **IPR Industrial Advisory Board DINNER**
University Club, Burgundy Room
- 7:30 - 11:30 **Poster Presentations and Informal Get-together**
University Club, Main Dining Room
(IPR graduate students/researchers and symposium participants)

FRIDAY, APRIL 25, 2003

- 8:30 a.m. **Coffee**
- 9:00 - 9:30 **Yingping Zhang, Chemical Engineering Waterloo**
Mixing studies in twin-screw extruders
- 9:30 - 10:00 **Mingzhen Zhang, Chemistry, Waterloo**
Study of the microstructure of maleated ethylene-propylene
copolymers
- 10:00 - 10:30 **Coffee**
- 10:30 - 11:00 **Xiaoqin Zhou, Chemical Engineering, Waterloo**
Estimation of reactivity ratios from sequence length data
- 11:00 - 11:30 **Jessada Jitjareonchai, Chemical Engineering, Waterloo**
Adaptation of Markov chain Monte Carlo methods to parameter estimation
for engineering applications
- 11:30 - 12:00 **Bushra Siddique, Chemistry, Waterloo**
New biocompatible drug delivery system
- 12:00 p.m. **Closing remarks/Lunch/Adjournment**

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POSTER SESSION
THURSDAY, APRIL 24, 2003, 7:30 PM
UNIVERSITY CLUB

Mercy Bulsari Chem Eng, Waterloo	Hydrosilylation of polypropylene
Narges Ghadi Chem Eng, Ryerson Polytechnic Univ.	Steady-state analysis of an emulsion polymerization reactor
Sumit Kundu Chem Eng, Waterloo	Characterization and properties of polymeric materials for fuel cells
Ryan McCabe Chem Eng, Waterloo	Population balance for polyethylene production in a tubular reactor
Nahla Sahloul Chem Eng, Waterloo	Reactivity ratio values of tetrapolymer in bulk and solution (sty/EA/HEA/MAA)
Deborah Sarzotti Chem Eng, Waterloo	An investigation of the crystallization behaviour of ethylene/1-hexene copolymers synthesized with single-site catalysts: Crystaf and solution DSC
Howard Siu Chemistry, Waterloo	Fluorescence study of the association occurring between sodium dodecyl sulfate and a hydrophobically modified polyelectrolyte
Steve Teertstra Chemistry, Waterloo	Physical properties of arborescent isoprene copolymers
Fred Yao Chem Eng, Ryerson Polytechnic Univ.	Modeling of free radical ethylene polymerisation in a tubular reactor
Zhongshun Yuan Chemistry, Waterloo	Synthesis of arborescent isoprene homopolymers