

**INSTITUTE FOR POLYMER RESEARCH
CELEBRATING 22 YEARS OF OFFICIAL INSTITUTE STATUS
TWENTY-EIGHTH ANNUAL SYMPOSIUM
ON POLYMER SCIENCE/ENGINEERING
2006**

**Conrad Grebel College
Great Hall
University of Waterloo, Waterloo, Ontario
Tuesday, May 16, 2006**

8:30 a.m.	Coffee
8:50	Welcome and Opening Remarks
9:00 - 9:30	Bob Li, Chemical Engineering, Waterloo (2005 IPR Scholarship Winner) Functionalization of polypropylene with sulfonyl azide through reactive blending
9:30 - 10:00	Professor Pearl Sullivan, Mechanical Engineering, Waterloo The Matrix—Evolutions II
10:00 - 10:30	Yu Shen, Chemistry, Waterloo Characterization of the aggregation of non-ionic dispersants and their adsorption on carbon black particles
10:30 - 11:00	Coffee
11:00 - 11:30	Professor Marianna Polak, Civil Engineering, Waterloo Relationship between chemical and mechanical properties for polyethylene: structural applications and mechanical modelling
11:30 - 12:00 p.m.	Cristina Quinn, Chemistry, Waterloo Monitoring chain folding by luminescence using a long-lived ruthenium complex
12:15 - 1:00	Lunch
1:00 - 1:30	Bushra Siddique, Chemistry, Waterloo Characterization of polypeptide aggregates in aqueous solution
1:30 - 2:00	Marie-Agnes Henry, Chemical Engineering, Waterloo Oxygen/Nitrogen separation using cobalt containing membranes
2:00 - 2:30	Abdul Munam, Chemistry, Waterloo Solution behaviour of branched polyelectrolytes

- 2:30 - 3:00 **Professor Eduardo Vivaldo Lima, UNAM, Mexico**
Polymer reaction engineering issues about polymerization in supercritical carbon dioxide
- 3:00 - 3:30 **Coffee**
- 3:30 - 4:00 **Mark Ingratta, Chemistry, Waterloo**
Are the pendants of a chain randomly distributed in solution?
- 4:00 - 4:30 **Dr. Shuihan Zhu, Chemical Engineering, Waterloo**
The surface properties of reactive polyolefin compounds with poly (dimethylsiloxane) annealed in supercritical carbon dioxide
- 4:30 - 5:00 **Jason Dockendorff, Chemistry, Waterloo**
Arborescent polymers as templates for the preparation of metallic nanoparticles
- 6:00 - 7:30 **IPR Industrial Advisory Board DINNER**
University Club, Main Dining Room
- 7:30 - 9:30 **Poster Presentations and Informal Get-together**
University Club, Main Dining Room
(IPR graduate students/researchers and symposium participants)

POSTER SESSION
TUESDAY MAY 16, 2006
UNIVERSITY CLUB
7:30 pm

Mohammed Al-Saleh Chem Eng, Waterloo	Detailed modelling of LLDPE structure: kinetics-microstructure-properties relationship
Joy Cheng/Jose Alvarado Chem Eng/Civil Eng, Waterloo	Relating micro-structural with macro-mechanical properties and modelling
Feng Lin Chem Eng, Waterloo	Synthesis and characterization of polymer-TiO ₂ nanocomposites
Ibrahim Maafa Chem Eng, Waterloo	Prediction of the MWD of polystyrene made with mono-and bifunctional initiators by dynamic Monte Carlo simulation
Abdul Munam Chemistry, Waterloo	Rubber-compatible lightweight fillers
Afsaneh Nabifar Chem Eng, Waterloo	Controlled radical polymerizations
Alexandros Psarreas Chem Eng, Waterloo	Nitroxide-mediated controlled degradation of polypropylene