2020

PROGRAM
12:50  Welcome and Opening Remarks

1:00 – 1:20  Janine Thoma [Prof. Duhamel]
Persistence Length of Polymeric Bottle Brushes Determined by Pyrene Excimer Fluorescence
(Winner of 2020 IPR Award for Academic Excellence in Polymer Science/Engineering)

1:20 – 1:40  Elnaz Esmizadeh [Prof. Mekonnen]
Degradation behavior of polypropylene during reprocessing and its biocomposites: thermal and oxidative degradation kinetics

1:40 – 2:20  5-Min. Mini Presentations
1) Sainiwetha Saihrishnan [Prof. Mekonnen]
Thermo-mechanical Degradation of Polypropylene-Low Density Polyethylene blend system after multiple extrusion
2) Javan Buratynski [Prof. Schipper]
Using Degradable Polymers to Separate Carbon Nanotubes
3) Abdullah Ba Salem [Prof. Duhamel]
Determination of Aggregation Number for Pyrene-labeled Gemini Surfactants
4) Kristijan Lulic [Prof. Duhamel]
Self-Association of Oligoquinoline Foldamers Probed by Fluorescence Anisotropy
5) Hunter Little [Prof. Duhamel]
Progress in Instrumentation for Time-resolved Fluorescence Anisotropy
6) Franklin Frasca [Prof. Duhamel]
Relating Pyrene Excimer Fluorescence to Conformation in Pyrene-Labeled Polymamines
7) Tiana Trumpur [Prof. Forrest]
Solvent Induced Nanoscopic Roughness on Glassy Polymer Thin Films
8) Minghui Liu [Prof. Zhao]
Antimicrobial Activity of Quaternary Ammonium Compound/Polyurethane [QAC/PU] Colloidal Complex Film Based on Synergetic Release Killing and Contact Killing Mechanisms

2:20 – 2:40  Remi Casier [Prof. Duhamel]
Copolymerization and its Effects on Polymer Dynamics in Solution

2:40 – 3:00  Break
Mini-Symposium on Modification, Characterization, and Applications of Polysaccharides

3:00 - 3:20  Chunxia Tang [Prof. Tam]
Functionalized Cellulose Aerogel Beads for Heavy Metal Ions Removal
(Winner of the 2020 IPR Award for Academic Excellence in Polymer Science/Engineering)

3:20 – 3:40  Natun Dasgupta [Prof. Gauthier]
Thermoresponsive Starch Nanoparticles for Oil Recovery from Tar Sands

3:40 – 4:00  5-Min. Mini Presentations
9) Maryam Bagheri [Prof. Simon]
Polysaccharide-Ionic Liquid corrosion inhibitors
10) Ewomazino Ojogbo [Prof. Mekonnen]
Effects of fabrication method on the dispersion of CNCs in highly crosslinked rubber composites
11) Sanjay Patel [Prof. Duhamel]
Pyrene-labeled Starch Nanoparticles as Fluorescent Sensors for Explosive Detection
12) Donghan Liu [Prof. Duhamel]
Synthesis and Characterization of Furan Based Non-ionic Surfactant (FBNIOS)

4:00 – 4:20  Joanne Fernandez [Prof. Gauthier]
Grafting of Starch Using a Complex Initiation System of CAN-KPS

4:20 – 4:40  Muhammad Shahidul Islam [Prof. Tam]
Cellulose Nanomaterials: Synthesis, Properties, and Applications

4:40 - 5:00  Damin Kim [Prof. Duhamel]
Better Understanding the Structure of Glycogen with Pyrene Excimer Fluorescence

5:00  Closing Remarks