

University of Windsor
Department of Chemistry and Biochemistry

0359-400/410 Chemistry and Biochemistry 4th year Research Projects

Monday April 26th from 9AM to 4PM

Oak Room, Vanier Hall

Each student will provide a 20 minute presentation about their 4th year research project. While, the students' supervisors and departmental readers (in brackets) will be the primary examiners, questions from members of the audience are welcome, as always.

- 9:00-9:05 Welcome and Introduction
- 9:05-9:30 **Gueorguieva** - *Low Oxidation State Phosphorus Polymers* - Dr. Macdonald - [Dr. Loeb]
9:30-9:55 **Jolicoeur** - *The Synthesis of Coordination Building Blocks and the Application in the Generation of Hydrogen Bonded Networks* - Dr. Loeb - [Dr. Johnson]
9:55-10:20 **Keen** - *The Unexpected Formation of a Dinuclear Ni(I)-Ni(I) Compound via Reduction of a Ni(II) Aryl Bromide Complex* - Dr. Johnson - [Dr. Stephan]
- 10:20-10:30 Break
- 10:30-10:55 **Bonelli** - *Suzuki Reaction Catalysts* - Dr. Loeb - [Dr. Stephan]
10:55-11:20 **Taylor** - *The Interactions of Quadruplex DNA with Potential Drug Molecules: A Computational Investigation* - Dr. Gauld - [Dr. Loeb]
11:20-11:45 **McCarthy** - *Paraquat Induces Oxidative Stress and Neuronal Cell Death; Neuroprotection by Water-Soluble Coenzyme Q₁₀* - Dr. Pandey - [Dr. Vacratsis]
- 11:45-1:30 Lunch
- 1:30-1:55 **Widdifield** - *A Solid-State ¹³C and ³⁹K NMR Study upon Cyclopentadienyl Potassium (CpK) and Pentamethylcyclopentadienyl Potassium (Cp*K)* - Dr. Schurko - [Dr. Macdonald]
1:55-2:20 **Lam** - *The Disulfide Exchange and Denitrosation Activities of Protein Disulfide Isomerase, RSNO Inhibition of Cell Adhesion* - Dr. Mutus - [Dr. Gauld]
2:20-2:45 **Chow** - *Dictyostelium Discoideum* - Dr. Cotter (Biology) - [Dr. Pandey]
- 2:45-2:55 Break
- 2:55-3:20 **Oleynik** - *A Computational Study of the Biochemical Mode of Action of the Novel Anti-Tumor Drug Tirapazamine (TPZ)* - Dr. Gauld - [Dr. Ananvoranich]
3:20-3:45 **Shah** - *Synthetic Chemistry Reaction Sheets* - Dr. Eichhorn - [Dr. Green]
- 3:45 Concluding Remarks
- 6:30 Dinner at Big Dick's