

Chem 490 and Summer Research – MUN Green Chemistry and Catalysis Group

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Interdisciplinary projects are available on a range of topics relevant to **green chemistry**. These include organic and inorganic synthesis, catalysis, alternative solvents, polymers/materials, high-throughput techniques and spectroscopy. Please chat to Fran for more details.

Previous students who have worked in the group for between 3 and 6 months have seen their work published in scientific journals:

1. Christian Hoffmann (DAAD RISE Weltweit, 2011) saw his work on 'green' polymer synthesis published in *Dalton Transactions*, 2012, **41**, 6651, [DOI: 10.1039/C2DT30276D](https://doi.org/10.1039/C2DT30276D)
2. Marcus Drover (NSERC USRA, 2011) and Jen Murphy (SWASP, 2011) saw their work on conversion of renewable chemicals (amino-sugars) published in *RSC Advances*, 2012, **2**, 4642, [DOI:10.1039/C2RA20578E](https://doi.org/10.1039/C2RA20578E)
3. Jessica Besaw (NSERC USRA, 2010) saw her work on reactions of a biopolymer (chitosan) published in *Green Chemistry*, 2012, **14**, 1480-1487, [DOI:10.1039/C2GC35048C](https://doi.org/10.1039/C2GC35048C).

They have also attended national and regional chemistry meetings/conferences. Marcus also had some of his research featured in a [Canadian Chemical Society calendar](#) (2012).

Training and skills that are developed include air-sensitive synthetic techniques (Schlenk-line and glove boxes), catalyst screening (incl. GC-MS), multinuclear NMR spectroscopy and polymer characterization (GPC and DSC).

Students interested in learning more about project details should contact [Dr. Kerton](#) to obtain a project outline or discuss ideas.

Our webpages: <http://www.chem.mun.ca/zfac/fmk.php> <http://greenchem.wordpress.com>

