# Faculty Profiles

Graham J. Bodwell

Professor

Dr. rer. nat. Technische Universität Braunschweig  
University Research Professor Awarded 2013

Research topics in the Bodwell group include the synthesis and study of nonplanar aromatic compounds, cyclophanes, designed pi systems and heteroaromatic natural products.

T: 709-864-8406 | E: gbodwell@mun.ca | O: CSF-3326 |

Christina Bottaro

Professor

PhD Dalhousie University

We work on the development of new techniques for rapid and sensitive analysis of aquatic environmental pollutants. We are mainly focused on methods that exploit multi-dimensional selectivity using molecularly imprinted polymers (MIPs) coupled with desorption ionization mass spectrometry methods.

T: 709-864-8088 | E: cbottaro@mun.ca | O: CSF-3222 |

<https://bottarogroup.ca/>

Lindsay Cahill

Assistant Professor

PhD McMaster University

My research group aims to develop the diagnostic utility of advanced imaging techniques, such as high-resolution magic angle spinning magnetic resonance spectroscopy, using experimental animal models of neurodevelopmental and pregnancy disorders.

T: 709-864-7911 | E: lcahill@mun.ca | O: CSF-3336 |

<https://www.cahilllab.com/>

Travis D. Fridgen

Professor | Acting Dean of Science

PhD Queen's University

Energetics, reactions, and structures of gaseous ions and self-assembled complexes of metal cations with amino-acids, peptides, and DNA bases. Laser Spectrosocpy. FT-ICR Mass Spectrometry.

T: 709-864-8155 | E: tfridgen@mun.ca | O: CSF-3224 |

<https://www.mun.ca/faculty/tfridgen/>

Huck K. Grover

Assistant Professor

PhD University of Western Ontario

My research interests revolve around the development of modern synthetic methods (ex. C-H activation, photoredox reactions, radical processes) and the application of these methods toward the synthesis of highly sought after bioactive natural products (ex. alkaloids, terpenes, and polyketides).

T: 709-864-3037 | E: hgrover@mun.ca | O: CSF-3329 |

<http://www.grovergroupchemistry.com/>

Karen Hattenhauer

Assistant Professor

PhD University of Manitoba

T: 709-864-7689 | E: kepp@mun.ca | O: CSF-2244 |

<https://www.mun.ca/faculty/khattenhauer/>

Karl J. Jobst

Assistant Professor

PhD McMaster University

The identities of most environmental toxicants and their role in causing chronic disease are unknown. Our research aims to bridge this gap through the development and application of novel nontargeted mass spectrometry techniques and sophisticated computational tools.

T: 709-864-8744 | E: karl.jobst@mun.ca | O: CSF-3337 |

<https://www.mun.ca/faculty/kjobst/index.php> | <https://www.jobstlab.com/>

Michael J. Katz

Associate Professor

PhD Simon Fraser University

Research in the Katz group focus on using porous materials with emphasis on hypothesis-based research towards modern day challenges in chemical storage, chemical separations, and catalysis (to name a few).

T: 709-864-8745 | E: mkatz@mun.ca | O: CSF-3338 |

<https://www.mun.ca/faculty/mkatz/>

Francesca M. Kerton

Professor

PhD University of Sussex

We research environmentally-friendly chemical processes including catalysis, transformations of biomass and carbon dioxide, and green polymers. Students develop multidisciplinary chemistry skills.

T: 709-864-8089 | E: fkerton@mun.ca | O: CSF-3342 |

<https://www.mun.ca/faculty/fkerton/>

Christopher M. Kozak

Professor

PhD University of British Columbia

We synthesize homogeneous catalysts containing earth-abundant metals for transformations of carbon dioxide, synthesis of green polymers, and applications in carbon-carbon and carbon-heteroatom bond-forming reactions.

T: 709-864-8082 | E: ckozak@mun.ca | O: CSF-3341 |

<https://www.mun.ca/faculty/ckozak/>

Erika Merschrod

Professor

PhD Cornell University

Multiscale materials with applications from optoelectronic sensors, to antifouling coatings and tissue scaffolds; hybrid scanning probe techniques applied to biological tissue imaging and analysis.

T: 709-864-8765 | E: erika@mun.ca | O: CSF-3334 |

<https://www.mun.ca/faculty/emerschrod/>

Sunil V. Pansare

Professor | Department Head

PhD University of Alberta

My research interests are mainly in the area of asymmetric organic synthesis, asymmetric organocatalysis and metal-based catalysis, natural product synthesis, diversity oriented synthesis and medicinal chemistry.

T: 709-864-8535 | E: spansare@mun.ca | O: CSF-3327 |

<https://www.mun.ca/faculty/spansare/>

Barry Power

Assistant Professor

PhD Memorial University

T: 709-864-8083 | E: b.power@mun.ca | O: CSF-2242 |

Heather Reader

Assistant Professor

PhD University of Georgia  
Canada Research Chair in Chemistry of the Ocean and Atmosphere

Research focuses on the biogeochemistry of organic matter in the world’s oceans. Application of novel experimental approaches and use combinations of analytical tools to better understand carbon cycling in marine systems.

T: 709-864-7280 | E: hreader@mun.ca | O: CSF-3223 |

<https://www.mun.ca/faculty/hreader/>

Jane Stockmann

Assistant Professor

PhD Western

We develop new ionic liquids and plastic crystal substrates with embedded nanoparticles for use as soft probes for high resolution electrochemical (bio)sensing and imaging. We use scanning electrochemical microscopy (SECM) for kinetic, thermodynamic, and mechanistic analysis employing both solid solution electrodes and immiscible liquid-liquid interfaces.

T: 709-864-8768 | E: tstockmann@mun.ca | O: CSF-3330 |

<https://www.mun.ca/faculty/jstockmann/>

Heloise Therien-Aubin

Assistant Professor

T: 709-864-2229 | E: htherienaubin@mun.ca | O: CSF-3340 |

David W. Thompson

Associate Professor

PhD York University

Our research focuses on solar energy conversion to fuels using molecular based artificial photosynthetic devices. The success of creating such devices requires a fundamental understanding of excited states through structure/electronic structure relationships. A variety of static and time-resolved laser spectroscopic methods.

T: 709-864- | E: dthompso@mun.ca | O: CSF- |

Yuming Zhao

Professor

PhD University of Alberta

Design and synthesis of redox-active pi-conjugated molecules and functionalized nanocarbon materials for application in advanced optoelectronic materials and devices.

T: 709-864-8747 | E: yuming@mun.ca | O: CSF-3325 |

<https://www.mun.ca/faculty/yzhao/>

## Adjunct and Cross Appointed Faculty

Mansour H. Almatarneh

Associate Professor

Ph. D. Memorial University  
Adjunt appointment from University of Jordan

My research interests include different computational study areas of reaction mechanisms and factors that influence selectivity in a chemical reaction using a wide range of techniques. Investigating systems related to DNA damage and repair and spontaneous mutations. Molecular dynamics simulations of a protein associated with psoriasis disease.

<http://eacademic.ju.edu.jo/m.almatarneh/default.aspx>

Matthias Bierenstiel

Professor

Dr. rer. nat. Ludwig Maximilian University of Munich  
Adjunt appointment from Cape Breton University

<https://www.cbu.ca/faculty-staff/directory/matthias-bierenstiel/>

Joseph H. Banoub

Professor

PhD University de Montreal  
Adjunct appointment from Fisheries and Oceans Canada

Stephanie MacQuarrie

Associate Professor

PhD Virginia Tech  
Adjunct appointment from Cape Breton University

The MacQuarrie group interests are in organically tailored heterogeneous materials from locally produced renewable biochar and ordered silicas for use in nanotechnology, materials science, and fine chemical synthesis.

<https://www.cbu.ca/faculty-staff/directory/stephanie-macquarrie/>

Christopher C. Parrish

Research Professor

PhD, Dalhousie University  
Cross-appointed from the Ocean Science Centre

Research is at the intersection of chemistry and biology on aquatic lipids with an emphasis on nutritional and biomarker compounds in food webs and aquaculture.

<https://mun.ca/osc/our-people/faculty---ocean-sciences/dr-chris-parrish/>

Kristin M. Poduska

Professor

PhD Cornell University  
Cross-appointed from the Department of Physics and Physical Oceanography

Solid-state chemistry, electrochemical synthesis, archaeological science, magnetic materials, optoelectronic materials, biomaterials, vibrational spectroscopy, surface chemistry.

<https://www.physics.mun.ca/~kris/>

Christopher Rowley

Adjunct Professor

Ph.D. University of Ottawa  
Associate Professor at Carleton University

Computational chemistry.

<https://www.rowleygroup.net/>

Celine M. Schneider

Assistant Professor

PhD Keele University  
Adjunct appointment from C-CART

As a NMR Spectroscopist, I am actively involved in collaborative research requiring solution, solid or micro-imaging NMR, with an incline towards solid-state applied to materials.

<https://www.mun.ca/creait/>

Shegufta Shetranjiwalla

Assistant Professor - School of Science and the Environment

PhD Trent University  
Cross-appointed from Grenfell Campus

T: (709) 639-2502 | E: sshetranjiwalla@grenfell.mun.ca |

<https://grenfell.mun.ca/academics-and-research/Pages/school-of-science-and-the-environment/People/Faculty/shegufta-shetranjiwalla.aspx>

Cora J. Young

Professor

PhD University of Toronto  
Guy Warwick Rogers Chair in Chemistry at York University

Research in Cora Young's group examines many aspects of environmental chemistry. We use and develop state-of-the-science analytical techniques to characterize chemicals, their sources, and their fates in the environment.

<https://www.cjygroup.com/>

## Retired Faculty and Professors Emeriti

Robert W. Davis

Associate Professor

PhD University of British Columbia

E: rdavis@mun.ca |

Christopher Flinn

Associate Professor

PhD Dalhousie University

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Paris E. Georghiou

Honourary Research Professor

PhD McGill University

T: 864-8517 | E: parisg@mun.ca | O: CSF-2238 |

<https://www.mun.ca/faculty/pgeorghiou/>

Niall J. Gogan

Professor Emeritus

PhD National University of Ireland

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Robert J. Helleur

Honourary Research Professor

PhD Queen's University

C. Robert (Bob) Lucas

Professor Emeritus

DPhil Oxford University

E: rlucas@mun.ca |

William (Bill) D. Machin

Professor Emeritus

PhD Rensselaer

Paul G. Mezey

Professor

PhD University of Budapest  
DSc University of Saskatchewan

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Peter G. Pickup

Honourary Research Professor

DPhil Oxford University  
University Research Professor Awarded 2005

T: 709-864-8657 | E: ppickup@mun.ca | O: CSF-3333 |

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Raymond A. Poirier

Professor Emeritus

PhD University of Toronto  
University Research Professor Awarded 2012

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<https://www.mun.ca/faculty/rpoirier/>

Laurence (Laurie) K. Thompson

Professor Emeritus

PhD University of Manchester

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# Support Staff

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