



2022

Second harmonic generation microscopy of otoconia. Published in the journal *Journal of Microscopy*. Authors: Kennedy Brittain, MacAulay Harvey, Richard Cisek, Saranyan Pillai, Sean D. Christie and Danielle Tokarz.

Co-author Kennedy Brittain is a graduate student at Saint Mary's University.  
Co-author MacAulay Harvey is a graduate student at Saint Mary's University.

New research exploring automated cancer detection

May 17, 2022

Chemistry faculty member, Dr. Danielle Tokarz, is exploring the use of custom laser-scanning microscopes in diagnosing diseased or cancerous tissue.

Peer-reviewed publication for Chemistry Faculty Member, Cory C. Pye

May 14, 2022

An ab initio study of the effect of hydration on the vibrational spectrum of hydrogen selenate ion. Authors: Pye, Cory C.; Akbari, Peyman; Goodall, Barbara L.; Shah Alam, Marwa Y. Published in *Journal of Molecular Structure*, 2022, 119383 (May 14, 2022).

Co-authors Peyman, Barbara, and Marwa are former research students of Dr. Pye and graduates of Saint Mary's University.

Peer-reviewed publication for Chemistry Member, Katherine Robertson

March 23, 2022

Thermal Stability and Decomposition Pathways in Volatile Molybdenum(VI) Bis-imides. *Journal of Molecular Structure*, 2022, 119383 (March 23, 2022). Katherine N. Robertson, Seán T. Barry. Published in *Journal of Molecular Structure*.

Undergraduate Scholarships Program - Applications now being accepted

March 22, 2022

Applications for the Undergraduate Scholarships Program is now available for the 2022-23 academic year! Some of the awards that the Chemistry Department is involved in selecting applicants are:

Cleary Family Scholarship  
Joseph & Charles Hinman Canadian Memorial Bursary  
Jack Ginsburg Memorial Scholarship  
John C. O'C. Young Scholarship

Students who are currently enrolled at Saint Mary's University for the 2021-2022 academic year and who will be continuing their undergraduate studies in the 2022-2023 academic year are encouraged to apply, and outline their unique, individual qualities in their personal statement. The deadline to apply is May 1, 2022 at 11:59pm

Students can visit [smu.ca/awards](http://smu.ca/awards) for the Undergraduate Scholarships Program application, as well as other applications that are currently available for the 2022-2023 academic year. Questions can be emailed to [financial.aid@smu.ca](mailto:financial.aid@smu.ca).

Peer-reviewed publication for Chemistry Member, Katherine Robertson

March 15, 2022

Tetra- $\mu$ -acetato- $\lambda^2$ -bis[(3-chloropyridine- $\nu$ )- $\kappa$ (Ru) hexafluorido-phosphate 1,2-dichloroethane monosolvate]. Published in *Journal of Inorganic Biochemistry*. Authors: A. J. Aquino, D. Gerrior, T. S. Cameron, K. N. Robertson, and M. A. S. Aquino

DOI: 10.1016/j.jinorgbio.2022.111611

**Preventing Falls and Balance Issues in Nova Scotians**

March 7, 2022

Understanding and combating the debilitating health impacts of balance disorders is the research will help patients by limiting the dosage of certain medications, reducing the future number of Nova Scotians who will have balance issues.

Peer-reviewed publication for Chemistry Faculty Member, Cory Pye

March 3, 2022

An ab Initio Investigation of the Hydration of Lead(II). Published in Liquids 2022, 2, 39-49. (March 3, 2022). Authors: Pye, Cory C.; Gunasekara, C.Mahesh