

# WHO WE ARE AND WHAT WE DO

The mandate of the Geochemistry, Geophysics and Terrain Sciences Section, and the disciplines it draws upon, are exceptionally diverse. Its staff concern themselves with a range of geoscience, including till, lake-sediment and lake-water geochemical surveys, and the analyses resulting from them; datamining; surficial geological and ice-flow mapping; geophysical surveys, compilations and interpretation; and environmental geology, specifically coastal erosion studies and geological hazard mapping. The section's client base includes town planners, municipalities, environmental consultants, academia, the construction industry and the exploration and prospecting community.



**Senior Geologist:** Stephen Amor (B.Sc., London, Ph.D., Queen's)

Steve joined the Survey in 2009 and became Section Head in 2013. He is responsible for the department's activities and performance, and reviews all material originating from it. As the only geochemist currently on staff, he supervises and participates in the collection, compilation and interpretation of regional and more focused geochemical data, and ensures that quality-assurance protocols are adhered to.



**Project Geologist:** David Taylor (B.Sc., Memorial)

David first worked with the Survey as a summer student in 1984, and joined the Survey full-time in 1985. In 1990 he started a systematic Island striation mapping project where he recorded over 2700 striation measurements and developed the Newfoundland striation database. Currently he is responsible for coordinating the integration of surficial data with the online Geoscience Atlas.



**Project Geologist:** Jennifer Organ (B.Sc., M.Sc., Memorial)

Jennifer first worked with the Survey as a student in 1999 and joined us full-time in 2008. She has worked in the Red Indian Lake Basin, the Topsails and Springdale areas of central Newfoundland, documenting landscape changes since the last glaciation by mapping the surficial geology and determining the stratigraphy and glacial history. She enjoys her role on the OH&S committee, working with and mentoring summer students, as well as meeting with prospectors and the public to discuss mineral exploration in glaciated terrain and geological hazards.



**Project Geologist:** Melanie Irvine (B.Sc., University of Victoria, M.Sc., Memorial)

Melanie joined us in 2011. She is managing a long-term monitoring program, where she is working across the province to assess the vulnerability of coastal areas to erosion and flooding. In 2016, she used a drone or Unmanned Aerial Vehicle (UAV), to survey cliff and beach areas and determine erosion rates of cliffs and volumetric changes of beaches.



**Project Geologist:** Heather Campbell (B.Sc., M.Sc., University of New Brunswick)

Heather is a newcomer to the GGTS section – joining the section in November of 2015 after working in exploration for a number of years. She is interested in geochemistry and glacial dispersal, and understanding weathering processes as they relate to element signatures in differing terrains. She is looking forward to working with her colleagues in understanding the glacial environment of Newfoundland, and to working with the public in understanding the geological processes that produce element signatures in glacial terraines.



**Project Geophysicist:** Gerry Kilfoil (B.Sc., University of New Brunswick, M.Sc., Memorial)

Gerry joined the Survey in 1987. His efforts have been mostly concerned with compilation, processing and archival of digital geophysical data, particularly from airborne surveys flown in the Province, as well as ensuring online access to data products through the Geoscience Atlas. Gerry often consults with prospectors and others in the mineral exploration industry, and has enjoyed many interesting discussions regarding geophysical interpretations.



**Project Geophysicist:** Robyn Constantine (B.Sc., Memorial)

Robyn first worked with the Geological Survey as a student, and joined full-time in 2009. With a geophysics background she is responsible for the processing and preparation of geophysical datasets for their online release and publication. She also assists a number of project geologists in the field, as well as researching and compiling geological data to use in geological tour applications.



**Laboratory Director:** Chris Finch (B.Sc., Memorial)

Chris has been with the Geochemical Laboratory since 1978. He takes care of the day-to-day administration of the laboratory whilst actively working to meet the analytical requirements of the Geological Survey's geologists. His main focus is in the field of atomic spectrometry, using Inductively Coupled Plasma Emission Spectrometry and Mass Spectrometry.



**Mineral Laboratory Chemist:** Lisa Walsh (B.Sc., Memorial)

Lisa started working in the Geochemical Laboratory in 2011. Prior to joining the team, Lisa worked with the research and development team for Vale in Argentina and Mississauga. This was in preparation for the hydrometallurgical plant in Long Harbour. Lisa has experience with a variety of lab instruments and procedures and has assisted other labs with preparation for ISO accreditation.



**Mineral Laboratory Chemist:** Rosauero Roldan (B.Sc., MLQ University, Philippines, M.Sc. Centro Escolar University, Phils., University of Waikato, New Zealand)

Rosauero joined the Survey in early 2013. Prior to that, he worked with SGS Lakefield Research Ltd, in Ontario as a technologist in its geochemistry facility serving the exploration and mining industry. In addition, he worked in pharmaceutical, agriculture, food, environment and energy before moving to the mining sector.



**Mineral Laboratory Chemist:** Jennifer Kelly (B.Sc., Sir Wilfred Grenfell College)

Jennifer is the most recent member of the Laboratory group, joining in early 2014. She brings experience and knowledge associated with Alberta's fast-paced drilling and environmental sectors. Along with the other chemists in the Laboratory, she prepares rocks, tills, and water samples from start to finish for geochemical analysis.

Terrain Sciences

Geophysics

Geochemistry Laboratory