

KAREN L. FOSTER, *PhD*

Peterborough, ON

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CURRENT POSTINGS:

- *Director*
Karen Foster Environmental Research – Environmental research firm
Peterborough, ON
- *Adjunct Graduate Faculty*
Applications of Modelling & Quantitative Methods (AMOD)
Trent University, Peterborough, ON

ACADEMIC SUMMARY

- 2011 – 2014** **University of Manitoba**, Winnipeg, MB
Postdoctoral Fellowship; Centre for Earth Observation Science (CEOS)
Supervisor: Gary Stern
- 2006 – 2010** **University of Ottawa**, Ottawa, ON
Ph.D.; Chemical and Environmental Toxicology
Supervisor: Jules Blais
- 1998 – 2002** **Trent University**, Peterborough, ON
Honours B.Sc.; Environmental Chemistry Emphasis in Northern and Polar
Studies, minor in Native Studies
Supervisor of thesis: Donald Mackay

RESEARCH EXPERIENCE

Environmental Research Company 2014 - Present

Karen Foster Environmental Research, Director

- Environmental research and consulting services for industry, government, community, and NGO clients
- Services offered: Development, application, and evaluation of mass balance models. Compilation and evaluation (multivariate statistics, big data techniques) of chemical monitoring datasets to address topics including: chemical metabolism, fate in the environment, chemical fate processes and the impact of changing environmental conditions (e.g., climate change), chemicals in wild foods, and biomonitoring

Postdoctoral Fellow 2011 - 2014

Centre for Earth Observation Science (CEOS) University of Manitoba / Trent University

- Petroleum hydrocarbons in Arctic marine waters, mercury uptake and transfer in Arctic food webs using multivariate statistical analyses, data interpretation, GIS

Postdoctoral Fellow 2011

Centre for Environmental Modelling and Chemistry, Trent University

- Poly- and per-fluorinated contaminant (PFC) fate in the Great Lakes using both modelling and laboratory-based techniques

Research Scientist, Canadian Environmental Modelling Centre, Trent University 2002-2005

- Design and application of modelling tools of chemical fate, human exposure and risk: Gasoline risk assessment (exposure component), the long-range transport of contaminants to the Arctic, uptake of contaminants by vegetation, urban air pollution

Environmental Modelling Consultant 2004

- Development and application of models of chemical fate in the environment

Animal Care Assistant, Scientific Support Staff, Trent University 1999-2001

- Care of all animals in the facility as well as facility cleanliness

Laboratory Assistant, Dr. C.D. Metcalfe Laboratory, Trent University 1996 - 2000

- Complete laboratory workup and contaminant analyses in water, soil/sediments, fish tissues, SPMDs. Toxicological studies that included embryo toxicity and tissue histopathology

TEACHING EXPERIENCE

Co-Instructor

The Application of Emerging Tools for Bioaccumulation Assessment: Integration of Biotransformation, Rome Italy 2018

- CEFIC-LRI and Health and Environmental Sciences Institute (HESI) sponsored training course for industry and government sector participants

Instructor

Environmental and Resource Studies Department, Trent University 2011 - 2014

- **Courses:**
 - Environmental Toxicology (ERSCY 3700)
 - Environmental Assessment: Sampling and Analysis (ERSCH 2230)
 - Invited lecturer: Pollution Ecology (ERSC 3550Y), Joint Chemistry/Physics Seminar

Science Fair Judge (Volunteer), Regional and National Levels 2008 – 2013, 2018

- Student interviews, evaluation and ranking of projects, award recommendations, promoting student interest and enthusiasm for science

Teaching Science in Remote Northern Communities, Science Travels 2008 - 2010

- Designed, engineered, and presented educational lessons, activities, and experiments to children and youth in remote northern/Arctic communities to promote interest in academics and the sciences. Activities/presentations taught: Global Warming, Chemicals in the Environment, Chemistry Magic Show, Health Sciences and STDs

Teaching Assistant and Corrector, University of Ottawa / Trent University 2001, 2009 – 2010

- Taught, assisted and supervised students in a laboratory setting. Marked course labs, assignments and exams. Courses: chemistry, ecology, animal form and function

Communicating Science to the Public Training, University of Ottawa 2009

- Training included: communication of science and scientific discoveries to the public including the media, youth and children

English Teacher (Volunteer), Manuel Ortega Girls' School, Xela, Guatemala 2005

- Taught English as a second language to K'iche' and Spanish speaking students

Chemistry Tutor (Volunteer), Trent University 2000 - 2002

- Tutored first year students in chemistry theory

COMMUNICATION AND LEADERSHIP

Director/Committee Member, Peterborough Regional Science Fair 2011-2013

- In collaboration with fellow committee members, assisted in the organization of all elements of the science fair, particularly outreach to teachers and school administrators

Education and Outreach Coordinator, ArcticNet Student Association 2012

- In collaboration with ArcticNet staff and students, helped organize educational activities for high school students

Elders Gathering Volunteer, Native Studies Department, Trent University 2011, 1998-2002

- Responsible for the collection of admission and the orientation and welcoming of Elders and attendees of the gathering

Kawartha World Issues Centre Volunteer 2011-2012

- Sold coffee and other fair trade items to ReFrame Peterborough International Film Festival participants

Science Reporter (Volunteer), Entre Mundos Newspaper, Xela, Guatemala 2006

- Researched and wrote an article: *Some Truths About the Mine: Mining in Guatemala...a look at the San Marcos Marlin Project*
- Conducted all interviews in Spanish, researched the mine (including visiting the mine and interviewing workers)

Trek Guide (Volunteer), Quetzaltrekkers, Xela, Guatemala 2006

- Led multi-day treks to raise money for a local shelter for children and a school (*Escuela de la calle*). Responsible for the safety of trek participants, meals, organization and preparation for the treks (rations, equipment, etc.)

Bush School (Pangnirtung, Nunavut), Native Studies Department, Trent University 2000

- Inuktitut language and culture training (e.g., seal hunting, soap stone carving, crafts, food preparation), volunteered in projects initiated by the community to: provide support for individuals, educate young people in traditional knowledge and maintain community buildings and shared areas

AWARDS AND HONOURS

- 2011 Nominated for Rob Peters Award for the best aquatic sciences paper published by a Canadian Student
- 2011 Dean's Scholarship, *University of Ottawa*
Awarded for: efficient and timely completion of PhD
- 2008-2010 Canadian Graduate Scholarship (CGS D)
National Sciences and Engineering Research Council of Canada (NSERC)
Awarded for: academic excellence, research potential, communication skills and interpersonal and leadership abilities
- 2006-2008 Postgraduate Scholarship (PGS M)
National Sciences and Engineering Research Council of Canada (NSERC)
Awarded for: academic excellence, research potential, communication skills and interpersonal and leadership abilities
- 2006-2010 Dean's Excellence Scholarship, *University of Ottawa*
Awarded for: academic and research excellence
- 2008 declined Ontario Graduate Scholarship (OGS), *Ontario Ministry of Training, Colleges and Universities*
Awarded for: academic and research excellence
- 2006, 2007 Northern Scientific Training Award, *Indian and Northern Affairs Canada (INAC)*
Awarded for: research in the North
- 2004 Appointed Assistant Editor of the Canadian Environmental Modelling Centre Newsletter
- 2000-2002 Dean's Honour Role, *Trent University*
- 2001 Elected Vice President of the Chemistry Undergraduate Society, *Trent University*
- 2000 Bill Armstrong Scholarship for academic achievement in Arctic studies
- 2000 Enbridge Consumers Gas Partners in Education Scholarship for community leadership and academic achievement
- 1999 Selected to be a featured student in the *Trent University: Shaping Tomorrow's Leaders* campaign

APTITUDES AND SPECIALTY SKILLS

Development, testing and application of computer models of chemical fate. Multivariate statistical analyses. Analytical environmental chemistry (analyses of air, water, sediment, soil, biota samples), sample extraction techniques (e.g., Soxhlet, Accelerated Solvent Extraction (ASE), liquid-liquid), extract cleanup and fractionation (e.g., silica columns, preparative liquid chromatography (prep LC), gel permeation columns), analyses and detection (e.g., gas chromatography, liquid chromatography, electron capture detection, tandem mass spectrometry), chromatography, chromatogram interpretation. Field work in remote Arctic regions, passive sampling technology (air, water). Multidisciplinary research designs (e.g., modelling, analytical chemistry, statistics). Teaching and working in cross-cultural settings both abroad and in northern communities in Canada, teaching science to youth, young adults and adults in both community and university settings.

SUPERVISION and ADVISING:

- S. Stoyanovich (2018), MSc thesis *University of Ottawa*.
 - Fate and behaviour of diluted bitumen (dilbit) in freshwater systems
- S. Baskaran (2014), Internship *Trent University*.
 - Chemical fate modelling of oil spills and associated toxins in Arctic marine waters
- K. Sollows (2014), Teaching Assistant, *Trent University*.
 - Environmental Assessment: Sampling and analysis (ERSC 2230H)
- S. Diamond (2013), Teaching Assistant, *Trent University*.
 - Environmental Toxicology (ERSC 3700)
- L. Furtado (2012), Teaching Assistant, *Trent University*.
 - Environmental Toxicology (ERSC 3700)
- M. Masuka (2011), Undergraduate research project, *Trent University*.
 - Combustion products of teflon
- K. Khosravi (2011), Teaching Assistant, *Trent University*.
 - Environmental Toxicology (ERSC 3700)
- L. Hill (2007 – 2008), Research Assistant, *University of Ottawa*.
 - Biological vectors of contaminants
- J. Buckley (2004), Research Assistant, *Canadian Environmental Modelling Centre*.
 - Chemical fate modelling

AFFILIATIONS

- Requested reviewer for scientific journals including *Environmental Science & Technology*, *Environmental Chemistry and Toxicology*, *Chemosphere*, *Journal of Toxicology & Environmental Health*, *Environmental Science and Pollution Research*
- American Chemical Society (ACS)
- Society for Environmental Toxicology and Chemistry (SETAC) Laurentian Chapter
- SETAC North America
- SETAC Europe
- Arnot Research and Consulting (ARC)
- Association of Polar Early Career Scientists (APECS)
- Canadian Environmental Modelling Centre (CEMC)

PUBLICATIONS

PEER REVIEWED

- Foster, K.L.**; Braune, B.M.; Gaston, A.J.; Mallory, M.L. Climate influence on mercury in Arctic seabirds. *In prep.*
- Foster, K.L.**; Looky, A.B.; Armitage, J.M.; Embry, M.; Nichols, J.W.; Wetmore, B.; Arnot, J.A. Critical evaluation of a human *in vitro* biotransformation rate database. *In prep.*
- Foster, K.L.**; Braune, B.M.; Gaston, A.J.; Mallory, M.L. Climate influence on legacy organochlorine pollutants in Arctic seabirds. *In Review.*
- Pomerleau, C.; Stern, G.A.; Pućko, M.; **Foster, K.L.**; Macdonald, R.W.; Fortier, L. Pan-Arctic concentrations of mercury and stable isotope ratios of carbon ($\delta^{13}\text{C}$) and nitrogen ($\delta^{15}\text{N}$) in marine zooplankton. *Sci. Total Environ.* 2016, 551-552, 92-100.
- Foster, K.L.**; Stern, G.A.; Carrie, J.; Bailey, J.; Outridge, P.M.; Sanei, H.; Macdonald, R.W. Spatial, temporal, and source variations of hydrocarbons in marine sediments from Baffin Bay, Eastern Canadian Arctic. *Sci. Total Environ.* 2015, 506-507, 430-443.
- Foster, K.**; Blais, J. (Coordinating authors: H. Hung; P. Kurt-Karakus). Chapter 3 Biovector transport of contaminants IN Canadian Arctic Contaminants Assessment Report On Persistent Organic Pollutants 2013 (CACAR III). Northern Contaminants Program, Aboriginal Affairs and Northern Development Canada, Ottawa ON, p. 248-252.
- Foster, K.L.**; Stern, G.A.; Pazerniuk, M.A.; Hickie, B.; Walkusz, W.; Wang, F.; Macdonald, R.W. Mercury biomagnification in marine zooplankton food webs in Hudson Bay. *Environ. Sci. Technol.* 2012, 46, 12952-12959.
- Foster, K.L.**; Kimpe, L.E.; Brimble, S.K.; Liu, H.; Mallory, M.L.; Smol, J.P.; Macdonald, R.W.; Blais, J.M. Effects of seabird vectors on the fate, partitioning, and signatures of contaminants in a High Arctic ecosystem. *Environ. Sci. Technol.* 2011, 45, 10053-10060.
- Foster, K.L.**; Mallory, M.L.; Hill, L.; D.; Blais, J.M. PCB and organochlorine pesticides in northern fulmars (*Fulmarus glacialis*) from a High Arctic colony: Chemical exposure, fate, and transfer to predators. *Environ. Toxicol. Chem.* 2011, 30, 2055-2064.
- Foster, K.L.**; Wang, S.W. The canary is alive and singing: Birds continue to provide invaluable information about our changing environment. *Integrated Environmental Assessment and Management* (Invited Learned Discourse), 2010, 7, 148-149.
- Foster, K. L.**; Wang, S. W.; Mackay, D.; Mallory, M. L.; Blais, J. M. A preliminary assessment of avian stomach oils: a vector of contaminants to chicks and potential for diet analysis and biomonitoring. *Environ. Sci. Technol.* 2010, 44, 6869-6874.
- Brimble, S. K., **Foster, K. L.**, Mallory, M. L., Macdonald, R. W., Smol, J. P. and Blais, J. M. High Arctic ponds receiving bio-transported nutrients from a nearby seabird colony are also subject to potentially toxic loadings of As, Cd and Zn. *Environ. Toxicol. Chem.* 2009, 28, 2426-2433.
- Foster, K.L.**; Sharpe, S.; Webster, E.; Mackay, D.; Maddalena, R. The role of multimedia mass balance models for assessing the effects of volatile organic compound emissions on urban air quality. *Atmos. Environ.* 2006, 40, 2986-2994.
- Mackay, D.; **Foster, K. L.**; Patwa, Z.; Webster, E. Chemical partitioning to foliage: the contribution and legacy of Davide Calamari. *Environ. Sci. & Pollut. Res.* 2006, 13, 2-8.
- Foster, K.L.**; Mackay, D.; Parkerton, T.F.; Webster, E.; Milford, L. Five-stage environmental exposure assessment strategy for mixtures: Gasoline as a case study. *Environ. Sci. Technol.* 2005, 39, 2711-2718.

MacLeod, M.; McKone, T. E.; **Foster, K. L.**; Maddalena, R. L.; Parkerton, T. F.; Mackay, D. Applications of contaminant fate and bioaccumulation models in assessing ecological risks of chemicals: A case study for gasoline hydrocarbons. *Environ. Sci. Technol.* 2004, 38, 6225-6233.

REPORTS

Foster, K.L., Stern, G.; Bailey, J.N.-L.; Carrie, J.; Hickie, B.; Macdonald, R.; Outridge, P.; Sanei, H. Spatial and temporal variations of petroleum hydrocarbons in marine sediments of Baffin Bay, Eastern Canadian Arctic. Final report to the Nunavut General Monitoring Plan (Iqaluit, NU). 2013.

Foster, K.L. Snow in May!: Science Travels in Moosonee and Moose Factory. *Science Travels University of Ottawa Newsletter*, 2008, 2.

Foster, K.L. Mining in Guatemala: A look at the San Marcos Marlin Project. *Entre Mundos*, Jan./Feb. 2006.

Foster, K.L.; Mackay, D.; Milford, L.; Webster, E. Multimedia modelling and exposure assessment for gasoline: Final report to ExxonMobil by the Canadian Environmental Modelling Centre. 2003.

Mackay, D.; Webster, E.; Cousins, I.; Cahill, T.; **Foster, K.**; Gouin, T. An Introduction to Multimedia Models. 2001. CEMC Report No. 200102. Trent University, Peterborough, ON.

PRESS INTERVIEWS

Simonfalvy, R. Nipivut, CBC North Radio One, Iqaluit. April 8th, 2013. Interviewed about my petroleum hydrocarbon research.

Webb, S. Seabirds Spew Useful Contaminant Data. *Chemical and Engineering News*, August 19th, 2010.

George, J. Biologists bag bird barf to study Arctic pollution: Fulmar stomach oils show high levels of toxic chemicals. *Nunatsiaq News*, September 6th, 2010.

THESES

Foster, K. L. 2010. Contaminant focusing into Arctic receptor sites: The role of seabirds. Ph.D. Thesis, Ottawa-Carleton collaborative program in Chemical and Environmental Toxicology, Ottawa-Carleton Institute of Biology, University of Ottawa, Ottawa, ON.

Foster, K. L. 2002. Modelling the long-range transport of organic contaminants to the Arctic. Honours Thesis, Department of Chemistry, Trent University, Peterborough, ON.

PRESENTATIONS AND INVITED LECTURES (* denotes presenting author)

Foster, K.L.*; Looky, A.B.; Armitage, J.M.; Embry, M.; Nichols, J.W.; Wetmore, B.A.; Sangion, A.; Papas, E. Critical evaluation of a new human *in vitro* biotransformation rate database: Case study of seven chemicals. SETAC, Rome, Italy, May 13-17, 2018 (platform).

- Arnot, J.A.*; Looky, A.B.; **Foster, K.L.**; Armitage, J.M.; Lostia, A.; Kienzler, A.; Halder, M. A critically evaluated database of *in vitro* and *in vivo* toxicokinetic data for mammals and fish. SETAC, Rome, Italy, May 13-17, 2018
- Toose, L.*; Armitage, J.; **Foster, K.L.**; Embry, M.; Hughes, L.; Arnot, J. The Bioaccumulation Assessment Tool (BAT): A quantitative weight of evidence approach for bioaccumulation assessment. SETAC, Rome, Italy, May 13-17, 2018.
- Foster, K.L.***; Braune, B.M.; Gaston, A.J.; Mallory, M.L. Climate influence on legacy organochlorine pollutants in Arctic seabirds. SETAC, Minneapolis, MN, USA, November 12-16, 2017 (platform).
- Toose, L.*; Armitage, J.M.; **Foster, K.L.**; Embry, M.; Arnot, J.A. The Bioaccumulation Assessment Tool: Overview and Case Study Application. SETAC, Minneapolis, MN, USA, November 12-16, 2017 (platform).
- Foster, K.L.***; Braune, B.M.; Gaston, A.J.; Mallory, M.L. Climate influence on mercury in Arctic seabirds. SETAC, Minneapolis, MN, USA, November 12-16, 2017 (poster).
- Foster, K.L.***; Looky, A.B.; Armitage, J.M.; Embry, M.; Nichols, J.W.; Wetmore, B.; Arnot, J.A. Critical evaluation of a human *in vitro* biotransformation rate database. SETAC, Minneapolis, MN, USA, November 12-16, 2017 (poster).
- Foster, K.L.**; Braune, B.M.*; Gaston, A.J.; Mallory, M.L. Climate variability and mercury levels in eggs of Arctic seabirds. International Conference on Mercury as a Global Pollutant, Providence, RI, USA, July 16-21, 2017 (platform)
- Arnot, J.A.*; Armitage, J.M.; **Foster, K.L.**; Toose, L.; Embry, M.R. The Bioaccumulation Assessment Tool: An Organizational Framework for bioaccumulation assessment SETAC, Brussels, Belgium, May 7-11, 2017 (poster).
- Foster, K.L.**; Braune, B.M.*; Gaston, A.J.; Mallory, M.L. Climate change effects on legacy organochlorine pollutants in arctic seabirds. International Conference on Arctic Science, Reston, VA, USA, April 24-27, 2017 (platform).
- Arnot, J.A.*; **Foster, K.L.**; Looky, A.; Brown, T.N.; Papa, E.; Wetmore, B.; Nichols, J.W. Comparisons of *in vitro*, *in vivo* and *in silico* biotransformation rates in fish and humans. SETAC, Orlando, FL, USA, November 6-10, 2016 (platform).
- Arnot, J.A.*; **Foster, K.L.**; Armitage, J.M. The Bioaccumulation Assessment Tool: An organizational framework for bioaccumulation assessment. SETAC, Orlando, FL, USA, November 6-10, 2016 (poster).
- Foster, K.L.*** Zen and the art of contaminants research in Arctic regions. National Wildlife Research Centre (NWRC), Carleton University, Ottawa, ON, December 16, 2015 (Invited speaker).
- Carrie, J*;**Foster, K.L.**; Sanei, H.; Stern, G. Geochemistry of microbial mats near natural oil seeps in marine Arctic Canada. Society for Organic Petrology, Sydney, NSW, Australia, September 27-October 3, 2014.
- Foster, K.L.***; Stern, G.A.; Carrie, J.; Bailey, J. N.-L.; Outridge, P.; Sanei, H.; Macdonald, R.W. Spatial, temporal, and source variations of petroleum hydrocarbons in marine sediments from Baffin Bay, Eastern Canadian Arctic. ArcticNet, Halifax, NS, December 9-13, 2013 (platform).
- Foster, K.L.*** Oil chemicals in Baffin Bay sediments: Establishing a hydrocarbon baseline. Pond Inlet, Baffin Island, NU, April 11, 2013 (Results presentation to Pond Inlet Hamlet Council).

- Foster, K.L.*** Oil chemicals in Baffin Bay sediments: Establishing a hydrocarbon baseline. Nunavut Research Institute, Iqaluit, Baffin Island, NU, April 9, 2013 (Results presentation to scientific community).
- Foster, K.L.*** Oil chemicals in Baffin Bay sediments: Establishing a hydrocarbon baseline. Nunavut Research Institute, Iqaluit, Baffin Island, NU, April 9, 2013 (Results presentation to Iqaluit residents).
- Foster, K.L.*** Pesticides: Fate and Effects on Wildlife and Ecosystems. Guest Lecture in ERSC 3550Y Pollution Ecology. Trent University, Peterborough, ON, January 17, 2013 (Invited Lecture).
- Foster, K.L.*;** Stern, G.A.; Pazerniuk, M.A.; Hickie, B.; Walkusz, W.; Wang, F.; Macdonald, R.W. Mercury Biomagnification in Marine Zooplankton Food Webs in Hudson Bay. ArcticNet, Vancouver, BC, December 12-14, 2012 (platform).
- Foster, K.L.*;** Stern, G.A.; Pazerniuk, M.A.; Hickie, B.; Walkusz, W.; Wang, F.; Macdonald, R.W. Mercury uptake into northern marine food webs: Bioaccumulation into zooplankton, and transfer to predators. SETAC Laurentian, Peterborough, ON, June 22, 2012 (platform).
- Foster, K.L.*;** Pazerniuk, M.A.; Hickie, B.; Wang, F.; Macdonald, R.W.; Stern, G.A. Zooplankton biomonitors of mercury in Arctic marine ecosystems. International Polar Year (IPY) 2012, Montreal, QC, Canada, April 22-27, 2012 (poster).
- Foster, K.L.*;** Mallory, M.L.; Hill, L.; Blais, J.M. The Fate of Organochlorine Contaminants in Seabirds from a High Arctic Colony: Bioaccumulation, and Transfer to Coastal Nesting Sites and Terrestrial Predators. SETAC North America, Boston, MA, USA, November 13-17, 2011 (platform).
- Foster, K.L.*** Contaminant focusing into Arctic receptor sites: The role of seabirds. Trent University, Peterborough, ON. March 30, 2011. Trent University Joint Chemistry/Physics Seminar (Invited Lecture).
- Foster, K.L.*;** Kimpe, L.E.; Brimble, S.K.; Liu, H.; Mackay, D.; Mallory, M.L.; Smol, J.P.; Macdonald, R.W.; Findlay, S.; Blais, J.M. The fate of seabird-derived pollutants in a coastal Arctic ecosystem. SETAC Europe, Seville, Spain, May 23-27, 2010 (platform).
- Foster, K.L.*;** Wang, S.W.; Mackay, D.; Mallory, M.L.; Blais, J.M. Avian stomach oils: A novel source of contaminants to chicks and potential for diet analysis and biomonitoring. SETAC Europe, Seville, Spain, May 23-27, 2010 (poster).
- Foster, K.L.*;** Mallory, M.L.; Hill, L.; Mackay, D.; Kimpe, L.E.; Brimble, S.K.; Liu, H.; Smol, J.P.; Macdonald, R.W.; Blais, J.M. Seabirds are an important source of marine-derived contaminants to the coastal Arctic. SETAC Europe, Seville, Spain, May 23-27, 2010 (poster).
- Blais, J.M.*; **Foster, K.L.;** Brimble, S.K.; Choy, E.S.; Michelutti, N.; Mallory, M.L.; Smol, J.P. Biovector transport of contaminants by seabirds (*Fulmaris glacialis*) to a remote Arctic coastal ecosystem. SETAC Europe, Seville, Spain, May 23-27, 2010 (poster).
- Foster, K.L.;** Kimpe, L.E.; Brimble, S.K.; Liu, H.; Mackay, D.*; Mallory, M.L.; Smol, J.P.; Macdonald, R.W.; Findlay, S.; Blais, J.M. The fate of seabird-derived pollutants in a coastal Arctic ecosystem. Canadian Environmental Modelling Network (CEMN) annual Partner's Meeting, Irwin Inn, ON, June 17-18, 2010 (platform).
- Foster, K.L.;** Wang, S.W.; Mackay, D.; Mallory, M.L.; Blais, J.M.* A novel source of contaminants to young seabird chicks? Laurentian Chapter of SETAC, Niagra-on-the-Lake, ON, June 4, 2010 (poster).

- Foster, K.L.;** Mallory, M.L.; Hill, L.; Mackay, D.; Kimpe, L.E.; Brimble, S.K.; Liu, H.; Smol, J.P.; Macdonald, R.W.; Blais, J.M.* Seabirds are an important source of marine-derived contaminants to the coastal Arctic: A source apportionment study. Laurentian Chapter of SETAC, Niagra-on-the-Lake, ON, June 4, 2010 (poster).
- Foster, K.L.*;** Kimpe, L.; Brimble, S.; Liu, H.; Mallory, M.; Smol, J.; Blais, J. Is a colony of Northern Fulmar seabirds the dominant source of organochlorine contaminants to a set of remote Arctic freshwater ponds? SETAC Laurentian, Ottawa, ON, June 19, 2009 (platform).
- Foster, K.L.*;** Kimpe, L.; Brimble, S.; Liu, H.; Mallory, M.; Smol, J.; Blais, J. The fate of seabird-derived organochlorine contaminants at a High Arctic field site. Canadian Environmental Modelling Network (CEMN) annual Partner's Meeting, Irwin Inn, ON, June 10-12, 2009 (platform).
- Foster, K.L.*;** Kimpe, L.; Brimble, S.; Choy, E.; Liu, H.; Mallory, M.; Smol, J.; Blais, J. The role of seabirds in contaminant delivery to high Arctic ponds: a source apportionment study on Devon Island, NU. Society of Canadian Limnologists (SCL), Ottawa, ON, Jan. 9-11, 2009 (platform).
- Blais J.M.*, **Foster K.L.**, Choy E., Brimble S., Kimpe L.E., Macdonald R.W., Michelluti N., Mallory M., Douglas M.S.V., Smol J.P. Contaminant biovector transport near a seabird colony on Devon Island, Arctic Canada. Presented to the Society of Canadian Limnologists, Ottawa, ON, Jan. 9-11, 2009 (platform).
- Brimble, S.K.*; **Foster, K.L.;** Mallory, M.L.; MacDonald, R.W.; Smol, J.P.; and Blais, J.M. Impact of a large northern fulmar (*Fulmarus glacialis*) colony on the sediment quality of a series of freshwater ponds at Cape Vera, Devon Island. Presented to the Society of Canadian Limnologists, Ottawa, Jan. 9-11, 2009 (platform).
- Foster, K.L.*;** Blais, J.; Kimpe, L.; Liu, H.; Smol, J. Contaminant focusing at arctic receptor sites: The role of biovector transport via seabirds. Society for Environmental Toxicology and Chemistry (SETAC), Tampa, FL, Nov. 2008 (poster).
- Foster, K.L.*;** Blais, J.; Kimpe, L.; Liu, H. Contaminant focusing at Arctic receptor sites: The role of biovector transport via seabirds. Canadian Environmental Modelling Network (CEMN) annual Partner's Meeting, Irwin Inn, ON, June 13-15, 2007 (platform).
- Foster, K.L.*;** Blais, J.; Kimpe, L.; Liu, H.; Smol, J. Contaminant focusing at Arctic receptor sites: The role of biovector transport via seabirds. Society for Environmental Toxicology and Chemistry (SETAC), Montreal, QC, Nov. 2006 (poster).
- Foster, K.L.*;** Mackay, D. Foliage-air partitioning. Canadian Environmental Modelling Network (CEMN) annual Partner's Meeting, Irwin Inn, ON, June 8-10, 2005 (platform).
- Foster, K.L.*;** Sharpe, S.; Webster, E.; Mackay, D.; Maddalena, R. Assessing the effect of VOCs on urban air quality. Canadian Environmental Modelling Network (CEMN) annual Partner's Meeting, Irwin Inn, ON, June 8-10, 2005 (platform).
- Foster, K.L.*;** Mackay, D.; Parkerton, T.; Webster, E.; Milford, L. Assessing the risk of complex mixtures: Case study of gasoline. Canadian Environmental Modelling Network (CEMN) annual Partner's Meeting, Irwin Inn, ON, June 10-11, 2004 (platform).
- Foster, K.L.*;** Mackay, D.; Sharpe, S.; Webster, E. Urban air quality modelling. Canadian Environmental Modelling Network (CEMN) annual Partner's Meeting, Irwin Inn, ON, June 10-11, 2004 (platform).

- Hubbarde, J.*; **Foster, K.L.** Modelling chemical uptake in plants. Canadian Environmental Modelling Network (CEMN) annual Partner's Meeting, Irwin Inn, ON, June 10-11, 2004 (platform).
- Foster, K.L.***, Webster, E.; Gouin, T.; Mackay, D. Long-range transport of contaminants to the Canadian Arctic: Understanding and modelling the mechanisms. Indian and Northern Affairs Canada (INAC) Northern Contaminants Program (NCP) Canadian Arctic Contaminants Assessment Symposium, Government Conference Centre, Ottawa, ON. Mar. 4-7, 2003 (poster and oral presentation).
- Parkerton, T.*; McKee, R.; **Foster, K.L.**; Mackay, D. Risk assessment of gasoline: A general approach following the EU TGD. Canadian Environmental Modelling Centre (CEMC) annual Partner's Meeting, Irwin Inn, ON, June 10-11, 2003 (platform).
- Foster, K.L.***; Gouin, T.; MacLeod, M.; Mackay, D. Modelling the long-range transport of organic contaminants to the Arctic: The "Tunnel" Model. Canadian Environmental Modelling Centre (CEMC) annual Partner's Meeting, Irwin Inn, ON, June 11-12, 2002 (platform).
- Foster, K.L.***; Mackay, D.; Gouin, T. Modelling the long-range transport of organic contaminants to the Arctic. 30th Annual Southern Ontario Undergraduate Student Chemistry Conference (SOUCC), Ryerson University, Toronto, ON. 2002 (oral presentation).

ADDITIONAL QUALIFICATIONS/TRAINING

Valid class G Ontario driver's license and excellent driving record, Standard First Aid and CPR, Wilderness First Aid, Canadian Firearms Safety Course, Firearms Possession and Acquisition licence, Ontario fishing licence and Outdoors Card, WHIMIS for Laboratory Safety, Teaching Assistant Training Course, Fire Extinguisher Safety Course, Animal Care Training, Radiation Safety Course

LANGUAGES: English (mother tongue), formal training in: Inuktitut (beginner), French (beginner) and Spanish (intermediate).