

Curriculum Vitae (19/08/2021)

Annemieke Farenhorst, Drs., Ph.D., P.Ag.

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ACADEMIC DEGREES

- 1998 Ph.D. Geography, University of Toronto, Canada
Farenhorst, A. 1998. Influence of earthworms (*Lumbricus terrestris* L.) on the dissipation and distribution of herbicides in soil. Ph.D. Thesis, University of Toronto, Canada. 207 pp.
- 1991 Doctorandus, Soil Science and Physical Geography, University of Amsterdam, The Netherlands
Farenhorst, A. 1991. Surface Runoff and Nutrient Redistribution in Burnt-Mediterranean Forest Hillslope Systems. Doctorandus Thesis, University of Amsterdam, The Netherlands. 137 pp.

CAREER POSITIONS

- 2022-2023 Vice-President (elected), Division VI, Chemistry and the Environment, International Union of Pure and Applied Chemistry
- 2021-2026 Associate Vice-President (Research), University of Manitoba
- 2021-2026 Director Research Ethics and Compliance, University of Manitoba
- 2020-2021 Secretary (elected), Division VI, Chemistry and the Environment, International Union of Pure and Applied Chemistry
- 2020- Associate Editor, ACS Agricultural Science and Technology
- 2019-2021 Associate Dean Research, Faculty of Agricultural and Food Sciences
- 2009- Editorial Board, Journal of Environmental Science and Health, Part B.
- 2008- Professor, Department of Soil Science, University of Manitoba
- 2018-2021 Nil-salaried appointment, Natural Resources Institute, University of Manitoba
- 2018 Acting Associate Dean Research, Faculty of Agricultural and Food Sciences
- 2011-2020 Natural Sciences and Engineering Council of Canada Prairie Chair for Women in Science and Engineering
- 2009-2011 Associate Editor, Canadian Journal of Soil Science
- 2009-2010 Acting Head, Department of Soil Science, University of Manitoba
- 2003-2008 Associate Professor (tenured), Department of Soil Science, University of Manitoba
- 2003-2008 Associate Professor (tenure-track), Department of Soil Science, University of Manitoba
- 2002-2004 Nil-salaried appointment, Faculty of Environment, University of Manitoba

- 1998-2003 Assistant Professor (tenure-track), Department of Soil Science, University of Manitoba
- 1997-1998 Lecturer, Department of Soil Science, University of Manitoba
- 1997 Research assistant (microbiology), AAFC, London, Ontario
- 1996-1997 HTML website programmer, Agriculture and Agri-Food Canada, London, Ontario
- 1994-1995 Teaching Assistant (TA), EES B05F Introduction to Soil Science, Univ. of Toronto
- 1993-1994 TA, EES B05F Introduction to Soil Science, Univ. of Toronto
- 1993-1994 TA, EES C13F Tropical Soils and Management, Univ. of Toronto
- 1993-1994 Physical Geography Graduate Student Representative (elected), Univ. of Toronto
- 1992-1993 TA, GGR B35F Introduction to Soil Science, Univ. of Toronto
- 1992-1993 TA, IDS B02Y International Development Studies, Univ. of Toronto
- 1992-1993 Physical Geography Graduate Student Representative (elected), Univ. of Toronto
- 1991-1992 TA, GGR B09S Hydrology, Land Use and Water Quality, Univ. of Toronto
- 1991-1992 TA, GGR C27Y Soil Erosion, Conservation & Land Management, Univ. of Toronto

AWARDS AND RECOGNITIONS

- 2016 Women's Executive Network Canada's Most Powerful Women: Top 100 Award winner in the Sun Life Financial Trailblazers & Trendsetters category
- 2015 Dr. and Mrs. Ralph Campbell Award, University of Manitoba
- 2015 University of Toronto Science Leadership Program Fellow
- 2013 University of Manitoba Merit Award for Outreach
- 2013 Named one of The Globe and Mail's "Hot Shot Profs"
- 2012 The Queen Elizabeth II Diamond Jubilee Medal
- 2010 University of Manitoba Merit Award for Outreach
- 2006 University of Manitoba Merit Award for Research
- 2005 University of Manitoba Outstanding Teacher Award
- 2003 University of Manitoba Merit Award for Research and Teaching
- 2003 The Rh Institute Award for Outstanding Contributions to Interdisciplinary Scholarship and Research
- 2001 Faculty of Agricultural and Food Sciences Diploma I Teacher of the Year
- 1995 The Delta Kappa Gamma Society International World Fellowship Grant
- 1994 The Delta Kappa Gamma Society International World Fellowship Grant
- 1994 Ontario Graduate Scholarship
- 1993 University of Toronto Graduate Student Conference Travel Grant
- 1993 University of Toronto Open Fellowship Award
- 1992 University of Toronto Open Fellowship Award
- 1992 University of Toronto Differential Fee Waiver Scholarship
- 1991 University of Toronto Open Fellowship Award
- 1991 University of Toronto Differential Fee Waiver Scholarship

RESEARCH INTERESTS AND KNOWLEDGE MOBILIZATION

- My laboratory is among the few research-training facilities in Canada specialized in the utilization of radiolabeled [¹⁴C] chemicals for plant, soil and water studies. For my entire career, I have focused on organic chemical sorption by matrices such as soils, sediments, plant and natural organic matter, humic substances, microplastics and biochars. My research on sorption is internationally recognized; for example, in the past 6 years, the International Union of Pure and Applied Chemistry invited me to be part of a book publication on the sorption of organic chemicals in soil; and I was also an invited co-author on a review paper that was published in the *Journal of Environment*. This publication received special recognition because of its many downloads and this paper has been cited more than 50 times since 2019. I am one of three invited inaugural Associate Editors for *Agricultural Science and Technology* which is an American Chemical Society journal. As well, I am the elected Secretary of Division VI (Chemistry and the Environment) of the International Union of Pure and Applied Chemistry.
- Through collaborations with AAFC and Environment Canada, my research team has examined concentrations of current-use and legacy pesticides in air, rain, dust, soil, groundwater, as well as in the water column, suspended sediments and bottom sediments of wetlands and rivers. Some of the methods that my students helped develop are now utilized by AAFC in analyzing numerous samples per year for industry, government and academic stakeholders across Canada. I also co-led the development of the Canadian Indicator of Water Contamination by Pesticides (IROWC-Pest). Agriculture and Agri-Food Canada has featured our methods and results as Chapters in public reports issued in 2005, 2010 and 2016. I have provided training workshops on pesticide indicators to academics, government and industry stakeholders various regions in the world. Three of these workshops had representatives from 11 to 14 different countries.
- I previously directed the NSERC CREATE H2O program for First Nations Water and Sanitation Security (2013-2019). The program trained 100 Highly Qualified Personnel (HQPs) in six years of whom 33% self-identified as Indigenous and 63% are women. Collectively, the HQPs worked with a substantial number of First Nations reserves and, in many cases, students had the experience to co-present with community members at scientific conferences and also participated in outreach activities in schools on reserves. The NSERC CREATE H2O program contributed to informing a broad audience about why and how First Nations drinking water quality should be improved, including through media features (e.g., CBC, National Post). I am continuing to be part of a network that is examining contaminants in drinking water distribution systems on First Nations reserves and this work is being supported by a CIHR Project grant. As well, I am co-leading of the United Nations Academic Impact (UNAI) Hub for Sustainable Development GOAL (SDG) 6 Clean Water and Sanitation and we are in the process of defining Streams (Pillars), which could include addressing the urgent need for improved water services for First Nations in Manitoba.
- I was the NSERC Chair for Women in Science and Engineering (CWSE) in the Prairie Region from 2011 to 2020. This is how I was first exposed to social science research, and over the years, I have been involved in a variety of projects. Conducting surveys has become an integral component of my ongoing research program, including as part of the drinking water studies in partnership with First Nations. As well, there is an ongoing collaboration with the NSERC CWSE network to expand the Workplace Climate Survey to universities in Ontario, Quebec

and BC/Yukon. As well, I am involved in an international collaboration with Sweden and Germany which research focuses on factors influencing the retention retention and advancement in information technology and engineering careers. This work is supported through a SSHRC Insight Grant.

REFEREED JOURNAL ARTICLES (names in bold are/were my HQPs)

1. **Amarawansha, E.A.G.S.**, Zvomuya, F., Tomy, G., Farenhorst, A. (202X). Trihalomethanes in drinking water from three First Nation reserves in Manitoba, Canada. *Environmental Monitoring and Assessment*, Submitted July 2021 (EMAS-D-21-03121).
2. Khan, I., **Murdock A.**, Mahmud, M., Cloutier, M., Benoit, T., **Bashar, S.**, Patidar, R., **Mi, R.**, Daneshfar, B., Farenhorst, A., Kumar, A. (202x). Assessment of First Nations drinking water distribution systems for quantitative detection and prevalence of indicator bacteria and thermophilic Campylobacter species. *Water Resources*, submitted July 2021.
3. **Amarawansha, E.A.G.S.**, Zvomuya, F., Farenhorst, A. (2021). Water delivery system effects on coliform bacteria in tap water in First Nations reserves in Manitoba, Canada. *Environmental Monitoring and Assessment*, 193: 339. doi: 10.1007/s10661-021-09114-x.
4. **Gamhewage M.**, Sheedy C.†, **Munira, S.**, Farenhorst, A. (2021). Pesticide mixtures in the water-column versus bottom-sediments of Prairie rivers. *Bulletin of Environmental Contamination and Toxicology*, 106, 936-941.
5. **Munira S.**, Dynes J.J., Islam M., **Khan F.**, **Adesanya T.**, Regier T.Z., Spokas K.A., Farenhorst, A. (2021) Relative proportions of organic carbon functional groups in biochars as influenced by spectral data collection and processing. *Chemosphere*, CHEM77499R2 accepted.
6. **Adesanya, T.**, Zvomuya, F., Farenhorst, A. (2021). Phytoextraction of sulfamethoxazole and ciprofloxacin by cattail and switchgrass. *Chemosphere*, 279, 130534.
7. **Dengate J.**, Hoffart R., Peter T., Farenhorst A., Franz-Odendaal T. (2021). The Effect of Women Academic Leaders on Canadian Natural Sciences and Engineering Faculty, *Canadian Journal of Higher Education*, 51(2), 1-14.
8. **Dengate J.**, Farenhorst A., Peter T., Franz-Odendaal T. (2021). "Shining Armour": What Margaret-Ann Armour Taught Us about Equity, Diversity, and Inclusion and Mentorship in the Natural Sciences. *Canadian Journal of Chemistry*, 99, 692-697. (Selected Editor's Choice papers for 2021 by Canadian Science Publishing).
9. **MacMartin, T. L.**, Graham, C. I., Farenhorst, A., & Brassinga, A. K. C. (2021). Complete Genome Sequences of Two Environmental Legionella Isolates Obtained from Potable Water Sourced in a First Nation Community. *Microbiology Resource Announcements*, 10(4).
10. **Adesanya, T.**, Zvomuya, F., Sultana, T., Metcalfe, C., & Farenhorst, A. (2020). Dissipation of sulfamethoxazole and trimethoprim during temporary storage of biosolids: A microcosm study. *Chemosphere*, 128729.
11. **Adesanya T.**, Zvomuya F., Farenhorst A. (2020). Sulfamethoxazole sorption by cattail and switchgrass roots, *Journal of Environmental Science and Health, Part B.*, DOI: 10.1080/03601234.2020.1807263
12. Peter T., **Dengate J.**, Farenhorst A., Franz-Odendaal T. (2020). Department Culture in Canadian Sciences & Engineering: An Empirical Test of the Culture Conducive to Women's Academic Success Model. *Journal of Women in Gender and Higher Education*, 13(2), 175–192.

13. **Dengate J.**, Peter T., Farenhorst A. (2019). Selective incivility, harassment, and discrimination in Canadian sciences & engineering: A sociological approach. *International Journal of Gender, Science and Technology*, 11 (2): 332-353.
14. **Dengate J.**, Peter T., Farenhorst A. (2019). Gender and the faculty care gap: The obvious go-to person for Canadian university students' personal problems. *Canadian Journal of Higher Education*, 49(3): 104-114
15. **Dengate J.**, Farenhorst A., Peter T. (2019). Sensible or outdated? Gender and opinions of tenure criteria in Canada. *Canadian Journal of Higher Education*, 49(2): 1-16.
16. Whynot J., Mavriplis C., Farenhorst A., Langelier E., Franz-Odendaal T., Shannon L. (2019). Knitting Theory in STEM Performance Stories: Experiences in developing a performance framework. *Canadian Journal of Program Evaluation*, 33(3): cjpe.53011.
17. Olk D., Bloom P., Perdue E., Chen Y., McKnight D., De Nobili M., Farenhorst A., + 6 others (2019). Environmental and agricultural relevance of organic matter fractions extracted by alkali from soils and natural waters. *Journal of Environmental Quality*, 48(2): 217-232.
18. **Ganhewage M.**, Farenhorst A., Sheedy C. (2019). Phenoxy herbicides' interactions with river bottom sediments. *Journal of Soils and Sediments*. 19(10): 3620-3630.
19. **Mi, R.**, Rakesh P., Farenhorst A., Zhangbin C., Shadi S., Khafipour E., Kumar A. (2019). Detection of fecal bacteria and antibiotic resistance genes in drinking water collected from three First Nations communities in Manitoba, Canada. *FEMS Microbiology Ecology*, 366(6): fnz067.
20. **Munira S.**, Farenhorst A., **Sapkota K.**, Nilsson D., Sheedy C. (2018). Auxin herbicides and pesticide mixtures in groundwater of a Canadian prairie province. *Journal of Environmental Quality*, 47(6): 1462-1467.
21. **Munira S.**, Farenhorst A., Akinremi, W. (2018). Glyphosate and phosphate sorption in soils following long term phosphate applications. *Geoderma*. 313: 146-153.
22. Donald D., Cessna A., Farenhorst A. (2018). Concentrations of herbicides in wetlands on organic and minimum-tillage farms. *Journal of Environmental Quality*, 47(6): 1554-1565.
23. **Saj D.**, Farenhorst A., Peter T. (2018). Perceptions of underrepresentation among students in stem fields: An empirical analysis. *Proceedings of University of Manitoba's Undergraduate Science and Engineering Research*, 4(1): 17-23.
24. Farenhorst, A., **Li, R.**, **Jahan, M.**, Tun, H.M., **Mi, R.**, **Amarakoon, I.**, Kumar, A., Khafipour, E. (2017). Bacteria in drinking water sources of a First Nation reserve in Canada. *Science of the Total Environment*, 575, 813-819.
25. **Li, R.**, Tun, H.M., **Jahan, M.**, Zhang, Z, Kumar, A., Kumar, A., Fernando, W.D., Farenhorst, A., Khafipour, E. (2017). Comparison of DNA-, PMA-, and RNA-based 16S rRNA Illumina sequencing for detection of live bacteria in water. *Nature Scientific Reports*, 7(1), 1-11.
26. Farenhorst, A., **Amarakoon, I.**, **Andronak, L.** (2017). 17 β -Estradiol mineralization under field and laboratory incubations. *Journal of Environmental Science and Health, Part B.*, 52(8): 564-569.
27. **Munira, S.**, Farenhorst, A. (2017). Sorption and desorption of glyphosate, MCPA and tetracycline and their mixtures in soil as influenced by phosphate. *Journal of Environmental Science and Health, Part B.*, 52(12): 887-895.

28. **Zheng, T.**, Sutton, N., De Jager, P., Grosshans, R., **Munira, S.**, Farenhorst, A. (2017). Glyphosate absorption by shoots and rhizomes of native versus hybrid cattail (Typha). *Bulletin of Environmental Contamination and Toxicology*, 99: 595-600.
29. **Amarakoon, I.**, Farenhorst, A., **Rose, K.**, **Claeys, A.**, **Ascef, B.** (2016). 17 β -Estradiol mineralization in human waste products and soil in the presence and the absence of antimicrobials. *Journal of Environmental Science and Health, Part B.*, 51(10): 655-660.
30. Fernando, D.M., Tun, N.M., Poole, J., Patidar, R., **Li, R.**, **Mi, R.**, **Amarawansa, G.**, Dilantha R., Khafipour, E., Farenhorst, A., Kumar, A. (2016). Identification of antibiotic resistance genes in source and drinking water samples from a First Nation Community in Canada. *Applied Environmental Microbiology*, 82 (15):4767-4775.
31. **Singh, B.**, Farenhorst, A., **McQueen, R.D.A.** Malley, D.F. (2016). Near-infrared spectroscopy as a tool for generating sorption input parameters for pesticide fate modeling. *Soil Science Society American Journal*, 80: 604-612.
32. **Munira, S.**, Farenhorst, A., Flaten, D., Grant, C. (2016). Phosphate fertilizer impacts on glyphosate sorption by soil, *Chemosphere*, 153: 471-477.
33. Unsworth, J., Corsi, C., Van Emon, J., Farenhorst, A., Hamilton, D., Howard, C., Hunter, R., Jenkins, J., Kleter, G., Kookana, R., Lalah, J., Leggett, M., Miglioranza, K., Miyagawa, H., Peranginangin, N., Rubin, B., Saha, B., Shakil, N. (2016). Developing Global Leaders for Research, Regulation and Stewardship of Crop Protection Chemistry in the 21st Century. *Journal of Agricultural and Food Chemistry*, 64 (1), pp 52–60
34. Farenhorst, A., **Andronak, L.A.**, **McQueen, R.D.A.** (2015). Bulk deposition of pesticides in a Canadian city: Part 1. Glyphosate and other agricultural pesticides. *Water, Air and Soil Pollution*, 226:1-11 (DOI 10.1007/s11270-015-2343-4).
35. Farenhorst, A., **Andronak, L.A.**, **McQueen, R.D.A.** (2015). Bulk deposition of pesticides in a Canadian city: Part 2. Impact of malathion use within city-limits. *Water, Air and Soil Pollution*, 226:1-8 (DOI 10.1007/s11270-015-2342-5).
36. Gagnon, P., Sheedy, C., Farenhorst, A., **McQueen, R.D.A.**, Cessna, A., Newlands, N. (2014). A coupled stochastic/deterministic model to estimate the evolution of the risk of water contamination by pesticides across Canada. *Integrated Environmental Assessment and Management*, 10(3), 429-436.
37. **Messing, P.**, Farenhorst, A., Waite D.T., Sproull, J.F. (2014). Air concentrations of currently used herbicides and legacy compounds in the Canadian prairies, subarctic, and arctic. *Journal of Environmental Science and Health, Part B.*, 49(5), 338-343.
38. **Messing, P.**, Farenhorst, A., Waite D.T., Sproull, J.F. (2014). Current-use herbicides in air as influenced by their estimated agricultural use at various distances from six sampling locations. *Water, Air, & Soil Pollution*, 225, DOI 10.1007/s11270-014-2013-y
39. **Rose, K.P.**, Farenhorst, A. (2014). Estrone and 17 B-estradiol mineralization in liquid swine manure and soil in the presence and absence of penicillin or tetracycline. *Journal of Environmental Science and Health, Part B.* 49(5), 331-337.
40. **Rose, K. P.**, Farenhorst, A., **Claeys, A.**, **Ascef, B.** (2014). 17 β -estradiol and 17 α -ethinylestradiol mineralization in sewage sludge and biosolids. *Journal of Environmental Science and Health, Part B.* 49(11), 871-879.
41. **Singh, B.**, Farenhorst, A., **Gaultier, J.**, Pennock, D.J., **Degenhardt, D.A.**, **McQueen, D.A.R.** (2014). Soil characteristics and herbicide sorption coefficients in 140 soil profiles of two

- irregular undulating to hummocky terrains of western Canada. *Geoderma* (232–234), 107–116.
42. **Messing, P.**, Farenhorst A., Waite D., Sproull, J. (2013). Influence of usage and chemical-physical properties on the atmospheric transport and deposition of pesticides to agricultural regions of Manitoba, Canada. *Chemosphere*, 90(6), 1997–2003.
 43. Sura, S., Waiser, M., Tumber, V., Farenhorst, A. (2012). Effects of herbicide mixtures on microbial communities in prairie wetland ecosystems: A whole wetland approach. *Science Total Environment*, 435/436, 34-43.
 44. **Singh, B.**, Malley, D.F., Farenhorst, A., Williams, P. (2012). Feasibility of using Near-Infrared Spectroscopy (NIRS) for rapid quantification of 17 β -estradiol sorption coefficients in soil. *Journal of Agriculture and Food Chemistry*, 60(40), 9948-9953.
 45. **Degenhardt, D.**, Humphries, D., Cessna, A.J., **Messing, P.**, Badiou, P., Raina, R., Farenhorst, A., Pennock, D.J. (2012). Dissipation of glyphosate and aminomethylphosphonic acid in water and sediment of two Canadian prairie(wetlands. *Journal of Environmental Science and Health, Part B.*, 47(7), 631-639.
 46. **Caron, E.**, Farenhorst, A., Hao, X., Sheedy, C. (2012). Solid beef cattle manure application impacts on soil properties and 17 β -estradiol fate in a clay loam soil. *Journal of Environmental Science and Health, Part B.*, 47(6), 495-504.
 47. **Messing, P.**, Farenhorst, A., Waite, D., **McQueen, R.D.A.**, Sproull, J., Humphries, D., **Thompson, L.** (2011). Predicting wetland contamination from atmospheric deposition measurements of pesticides in the Canadian Prairie Pothole region. *Atmospheric Environment*, 45(39), 7227-7234.
 48. **Degenhardt, D.**, Cessna, A.J., Raina, R., Farenhorst, A., Pennock, D.J. (2011). Dissipation of six acid herbicides in water and sediment of two Canadian Prairie wetlands. *Environmental Toxicology and Chemistry*, 30(9), 1982–1989.
 49. **Shymko, J.L.**, Farenhorst, A., Zvomuya, F. (2011). Polynomial response of 2,4-D mineralization to temperature in soils at varying soil moisture contents, slope positions and depths. *Journal of Environmental Science and Health, Part B.*, 46(4), 301-312.
 50. **Caron, E.**, Farenhorst, A., **McQueen, R.D.A.**, Sheedy, C., Goddard, T. and **Gaultier, J.** (2010). Mineralization of 17 β -estradiol in 36 Surface Soils from Alberta, Canada. *Agriculture, Ecosystems & Environment*, 139(4), 534-545.
 51. **Caron, E.**, Sheedy, C., Farenhorst A. (2010). Development of Competitive ELISAs for 17 β -Estradiol and 17 β -Estradiol+Estrone+Estril using rabbit polyclonal antibodies. *Journal of Environmental Science and Health, Part B.*, 45(2), 145-151.
 52. Farenhorst, A., **Saiyed, I.**, Goh, T.B., and **McQueen, P.** (2010). The important characteristics of soil organic matter affecting the sorption of 2,4-dichlorophenoxyacetic acid sorption along a catenary sequence. *Journal of Environmental Science and Health, Part B.*, 45(3), 204-213.
 53. **Xu [Degenhardt], D.**, Cessna, A.J., Raina, R., Pennock, D.J., Farenhorst, A. (2010). Trace level determination of selected sulfonylurea herbicides in wetland sediments by liquid chromatography-positive ion electrospray tandem mass spectrometry. *Journal of Environmental Science and Health, Part B.*, 45 (1), 11–24.

54. **Caron, E.**, Farenhorst, A., **Gaultier, J.**, Goddard, T., Sheedy, C. (2010). Sorption of four estrogens by surface soils from 41 cultivated fields in Alberta, Canada. *Geoderma*, 155(1), 19-30.
55. **Singh, B.**, Farenhorst, A., Malley, D. (2010). Feasibility of using NIR spectroscopy for predicting the behaviour of agricultural herbicides in agricultural soils. *Near Infrared Spectroscopy News*, 21(6), 7-9.
56. **Xu [Degenhardt], D., Meyer, S., Gaultier, J.**, Farenhorst, A., Pennock, D. (2009). Land use and riparian effects on Prairie wetland sediment properties and herbicide sorption coefficients. *Journal of Environmental Quality* 38(4), 1757-1765.
57. **Gaultier, J.**, Farenhorst, A., **Kim S.M., Saiyed, I.**, Cessna A.J. and Glozier N.E. (2009). Sorption-desorption of 2,4-dichlorophenoxy acetic acid by wetland sediments. *Wetlands*, 29(3): 837-844.
58. Farenhorst, A., **McQueen, D.A.R., Saiyed, I., Hilderbrand, C.**, Li, S., Lobb, D.A., **Messing, P.**, Schumacher, T.E., Papiernik, S.K., Lindstrom, M.J. (2009). Variations in soil properties and herbicide sorption coefficients with depth in relation to PRZM (Pesticide Root Zone Model) calculations. *Geoderma*, 150(3), 267-277.
59. Florinsky, I.V., Eilers, R.G., Burton, D.L., McMahon, S.K., Monreal, C.M., Farenhorst, A. (2009). Predictive soil mapping based on digital terrain modelling. *Geoinformatica*, 1, 22–32 (in Russian, with English abstract).
60. **Gaultier, J.**, Farenhorst, A., Cathcart, J. and Goddard, T. (2008). Regional assessment of herbicide sorption and degradation in two sampling years. *Journal of Environmental Quality*, 37(5), 1825-1836.
61. Farenhorst, A. Papiernik, S.K., **Saiyed, I., Messing, P., Stephens, K.D.**, Schumacher, J.A., Lobb, D.A., Li, S., Lindstrom, M.J., Schumacher, T.E. (2008). Herbicide Sorption Coefficients in relations to soil properties and terrain attributes on a cultivated prairie. *Journal of Environmental Quality*, 37(3), 1201-1208.
62. Farenhorst, A., Londry, K., **Nahar, N., Gaultier, J.** (2008). In-Field Variation in 2,4-D mineralization in relation to sorption and soil microbial communities. *Journal of Environmental Science and Health, Part B.*, 43(2), 1-7.
63. **Gaultier, J.**, Farenhorst, A., Cathcart, J., Goddard, T. (2008). Degradation of [carboxyl-¹⁴C] 2,4-D and [ring-U-¹⁴C] 2,4-D in soil. *Soil Biology & Biochemistry*, 40(1) 217-227.
64. **Symko, J.**, Farenhorst, A. (2008). 2,4-D Mineralization in Unsaturated and Near-Saturated Surface Soils of an Undulating, Cultivated, Canadian Prairie Landscape. *Journal of Environmental Science and Health, Part B.*, 43(1), 34-43.
65. Indraratne, S.P., Farenhorst, A., Goh, T.B. (2008). Atrazine Sorption by hydroxy-interlayered clays and their organic complexes. *J. Environ. Journal of Environmental Science and Health, Part B.*, 43(1), 21-26.
66. Li, S., Lobb, D.A., Lindstrom, M.J., Papiernik, K., Farenhorst, A. (2008). Modeling tillage-induced redistribution of soil mass and its constituents within different landscapes. *Soil Science Society of American Journal* 72(1), 167-179.
67. Li, S., Lobb, D.A., Lindstrom, M.J., Farenhorst, A. (2008). Patterns of water and tillage erosion on topographically complex landscapes in the North American Great Plains. *Journal of Soil and Water Conservation*, 63(1), 37-46.

68. Farenhorst, A. (2007). Influence of crop residues on trifluralin mineralization in a silty clay loam soil. *Journal of Environmental Science and Health, Part B.*, 42(3), 265-269.
69. **McQueen, D.A.R.**, Farenhorst, A., Allaire, S., and Cessna, A.J. (2007). Automation and evaluation of three pesticide fate models for a national analysis of leaching risk in Canada. *Canadian Journal of Soil Science*, 87(2), 203–212.
70. **Gaultier, J.**, Farenhorst, A. (2007). 2,4-D mineralization in soil profiles of a cultivated hummocky landscape in Manitoba, Canada. *Journal of Environmental Science and Health, Part B.*, 42(3), 255-264.
71. Li, S., Lobb, D.L., Lindstrom, M.J., Farenhorst, A. (2007). Tillage and water erosion on different landscapes in the northern North American Great Plains evaluated using ¹³⁷Cs technique and soil erosion models. *Catena*, 70, 493-505.
72. Farenhorst, A. (2006). Importance of soil organic matter fractions in soil-landscape and regional assessments of pesticide sorption and leaching in soil. *Soil Science Society of American Journal*, 70(3), 1005-1012.
73. **Hildebrand, C.**, Londry, K.L., Farenhorst, A. (2006). Sorption and desorption of three endocrine disruptors in soils. *Journal of Environmental Science and Health, Part B.*, 41(6), 907-921.
74. Farenhorst, A., **Reimer, M.**, Londry, K.L., **Saiyed, I.** (2006). 2,4-Dichlorophenoxy acetic acid mineralization in amended soil. *Journal of Environmental Science and Health, Part B.*, 41(5), 509-522
75. **Gaultier, J.**, Farenhorst, A., Crow, G. (2006). Spatial variability of soil properties and 2,4-D sorption in a hummocky field as affected by landscape position and soil depth. *Canadian Journal of Soil Science*, 86(1), 89-95.
76. Papiernik, S.K., Lindstrom, M.J., Schumacher, J.A., A. Farenhorst, **Stephens, K.D.**, Schumacher, T.E. Lobb, D.A. (2005). Variation in soil properties and crop yield across an eroded prairie landscape. *Journal of Soil and Water Conservation*, 60(6), 47-54.
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7. **Gaultier, J.**, Farenhorst, A., Cathcart, J. and Goddard, T. 2006. Regional and Field-scale Variability of 2,4-D Fate. *Proceedings 49th Manitoba Soil Science Society Conference*, Winnipeg, Manitoba, Canada. (pp. 260-271). **Awarded 2nd prize in student competition.**
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10. **Shymko, J.L.**, Farenhorst, A. (2005). Effect of landscape positions, soil depth, soil moisture, and soil temperature on 2,4-D half-lives. *Proceedings 48th Manitoba Soil Science Society Conference*, Winnipeg, Manitoba, Canada. (pp.171-179). **Awarded 2nd prize in student competition.**
11. Farenhorst, A. and Lobb, D. (2004). Impact of tillage erosion and landscape variability on herbicide sorption in soil profiles. *Proceedings 47th Manitoba Soil Science Society Conference*, Winnipeg, Manitoba, Canada. (pp.101-112)
12. **Gaultier, J.**, Farenhorst, A., Cannon, K. (2004). Factors controlling 2,4-D sorption in soils with low organic carbon content. *Proceedings 47th Manitoba Soil Science Society Conference*, Winnipeg, Manitoba, Canada. (pp.168-174). **Awarded 1st prize in student competition.**
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1. Mavriplis, C., D'amours C., Young, H. E., Shannon, L., Langelier, E., Farenhorst, A., Franz-Odendaal, T. (2021). 30 Years of Canada's Chairs for Women in Science and Engineering: The

Changing Landscape – Landscaping Change. 18th International Conference of Women Engineers and Scientists, September 2021, Warwick, England. (invited)

2. Farenhorst, A., Ross, W., Mi, R., Patidar, R., Amarawansa, G., Anderson, K., Khafipur, E., Kumar, A. (2018). The NSERC CREATE H2O Program on First Nations Water and Sanitation Security: Case Studies on Drinking Water Quality. SETAC Europe 28th Annual Meeting, Rome, Italy. (invited)

CONFERENCE PRESENTATIONS WITH ABSTRACTS

1. Mavriplis C., **D'Amours**, C., Young, H.E., Shannon L., Langelier, E., Farenhorst, A., Franz-Odendaal T. (2021). 30 Years of Canada's Chairs for Women in Science & Engineering: The Changing Landscape – Landscaping Change. The International Conference of Women Engineers and Scientists (ICWES). Coventry, United Kingdom, September 2021. (invited)
2. Franz-Odendaal T., Mavriplis C., Shannon L., Farenhorst A. (2021) Assessment of Academic Advancement Workshops for Female Faculty in STEM in Canada. XI European Conference on Gender Equality in Higher Education, September 2021, Madrid, Spain. (invited)
3. **Fatema, M.**, Farenhorst, A., Sheedy, C. (2021). Pesticides in water and bottom sediment samples at locations segmented to contrast agricultural and urban upland activities. Manitoba Soil Science Society, February 2021. Winnipeg, MB. (poster)
4. **Johnson, S.**, Farenhorst, A. (2021). Comparison of Two Probe Types (Hydra-Probe and Sentek) for Monitoring Temperature and Moisture Contents in a Pesticide Rinsate Management System. Manitoba Soil Science Society, February 2021. Winnipeg, MB. (Poster – **won best poster pitch**)
5. **Adesanya T.**, Zvomuya F., Sultana T., Metcalfe C., Farenhorst, A. (2020). Dissipation of sulfamethoxazole and trimethoprim in a wetland vs. terrestrial system. Manitoba Soil Science Society, February 2020. Winnipeg, MB. (Oral).
6. **Adesanya T.**, Zvomuya F., Sultana T., Metcalfe C., Farenhorst, A. (2020). Dissipation of sulfamethoxazole and trimethoprim during temporary storage of biosolids: a microcosm study. Soil Science Society of America Annual meeting Nov 2020. Virtual (poster).
7. **Bashar S.**, Murdock AR, Patidar R, Farenhorst A., Kumar A. (2020) Investigation of microbial load and antibiotic resistance genes in drinking water samples collected from source sample to different water distribution systems from First Nation communities, Manitoba, Canada. 1st Virtual CAWQ conference, July 23-24 (Oral).
8. **Fatema, M.**, Farenhorst, A. (2020). Sorption of a legacy and current-use pesticides by a range of constituents present in rivers: sediments, charcoal, ash and microplastics. Manitoba Soil Science Society, February 2020. Winnipeg, MB. (Oral - **won 2nd prize**).
9. **Fatema, M.**, Farenhorst, A., Sheedy, C. (2020). Are biobeds an effective approach to managing pesticide rinsate in the Canadian Prairies? Manitoba Soil Science Society, February 2020. Winnipeg, MB. (Poster - **won 2nd prize**).
10. **Fatema, M.**, Farenhorst, A., Sheedy, C. (2020). Pesticide Toxicity Index as an approach to demonstrate the benefits of on-farm biobeds. Manitoba Agronomists Conference, December 2020. Winnipeg, MB. (Poster).

11. **Fatema, M.**, Farenhorst, A., Sheedy, C. (2020). Using the Pesticide Toxicity Index to demonstrate the ecosystem benefits of on-farm biobeds. American Society of Agronomy, Crop Science Society of America and Soil Science Society of America International Annual Meeting, November 2020 (Poster).
12. **Fatema, M.**, Farenhorst, A., Sheedy, C. (2020). Effectiveness of on-farm biobeds. American Society of Agronomy, Crop Science Society of America and Soil Science Society of America International Annual Meeting, November 2020 (Rapid fire oral included with the poster).
13. **Johnson, S.**, Anseeuw, T., Derald, E., Gaultier, J., Gulden, R., Jones, J., Iverson, A. Sheedy, C. Wolf, T., Farenhorst, A. (2020) Constructing a biobed system for pesticide rinsate management in Manitoba. Manitoba Soil Science Society, February 2020. Winnipeg, MB. (Oral).
14. **Johnson, S.**, Anseeuw, T., Derald, E., Gaultier, J., Gulden, R., Iverson, A., Kumar, A., Nakagawa, P., Wolf, T., Farenhorst, A. Pesticide rinsate management using a biobed under Manitoba conditions. Manitoba Agronomists Conference, December 2020. Winnipeg, Mb. (Poster).
15. **Khan, F.**, and Farenhorst, A. (2020). Pesticide mineralization in biochar amended biomix of agricultural biobeds. Manitoba Soil Science Society, February 2020. Winnipeg, MB. (Poster).
16. **Khan, F.**, Munira, S., Adesanya, T., Dynes, J., Regier T., and Farenhorst, A. (2020). Effect of biochars on sorption and desorption of organic compounds in soils. American Society of Agronomy, November 2020. 2020 ASA-CSSA-SSSA International Annual Meeting (Virtual). (Poster - **won 2nd Place**)
17. **Murdock, A., Bashar, S.**, Patidar, R., Kumar, A., Farenhorst, A. (2020). Surveillance of Drinking Water in First Nation Communities: Resistome Occurrence of Bacteria and Antibiotic Resistance Genes. CAWQACQE and IWA Canada, July 2020. Winnipeg, MB. (Poster).
18. **Khan F.**, Farenhorst A, **Munira S.** (2019). Effect of biochar rates on the sorption and desorption of organic chemical compounds in soils. Manitoba Soil Science Society Annual Meeting, Winnipeg, Canada. (Oral).
19. **Theresa Adesanya**, Francis Zvomuya, and Annemieke Farenhorst (2019). Kinetics of sulfamethoxazole sorption by cattail and switchgrass roots as a mechanism for attenuation: Effect of sodium azide. International Annual Meeting of Soil Science Society of America, San Diego, USA. (Oral).
20. **Theresa Adesanya**, Francis Zvomuya, and Annemieke Farenhorst (2019). Uptake of ¹⁴C labeled antibiotics from a hydroponic solution. Manitoba Soil Science Society Annual meeting, Winnipeg, Canada. (Oral).
21. **Theresa Adesanya**, Francis Zvomuya, and Annemieke Farenhorst (2019). Phytoextraction of ¹⁴C-labeled sulfamethoxazole and ciprofloxacin by cattail and switchgrass. Canadian Soil Science Society Annual Meeting, Saskatoon, Canada. (Oral).
22. **Bashar S., Murdock AR**, Patidar R, Farenhorst A., Kumar A. (2019) Investigating seasonal impact on microbial load and antibiotic resistance genes in drinking water from a First

- Nation Community, Manitoba, Canada. 69th Annual Conference of the Canadian Society of Microbiologists (CSM 2019), Université de Sherbrooke in Sherbrooke, Quebec, Canada. (Oral).
23. **Murdock A, Bashar S**, Patidar R, Kumar A, Farenhorst A. (2019). Impact of Water Distribution Systems on Microbiological Quality of Drinking Water in First Nation Communities in Manitoba, Canada. Canadian Society of Microbiologists, Sherbrooke, Canada. (Oral).
 24. **Murdock A, Bashar S**, Patidar R, Kumar A, Farenhorst A. (2019) Water Distribution Systems Impact on the Microbiological Quality of Drinking Water in First Nation Communities in Manitoba, Canada, Wisconsin, USA. (Oral).
 25. **Murdock A, Bashar S**, Patidar R, Kumar A, Farenhorst A. (2019). Investigation of the Microbiological Quality of Drinking Water from First Nation Communities in Manitoba. International Prairie Student Conference, Winnipeg, Canada. (Invited speaker)
 26. **Johnson S**. Anseeuw T, Derald E, Gaultier J, Gulden R, Jones T, Iverson A, Sheedy C, Wolf T, Farenhorst A. (2019). Constructing a biobed system for rinsate management in Manitoba. Manitoba Agronomists Conference. Winnipeg, MB. (Poster).
 27. **Munira, S., Khan, F., Adesanya, T.**, Islam, M., Dynes, J., Regier, Z. T., Farenhorst, A. 2019. Spectroscopic characterization of carbon functional groups of biochar. Manitoba Soil Science Society Annual Meeting, Winnipeg, MB, Feb 7-8. (Oral).
 28. **Khan, F.**, Farenhorst, A., **Munira, S.** 2019. Effect of biochar rates on the sorption and desorption of organic chemical compounds in soil. Manitoba Soil Science Society Annual Meeting, Winnipeg, MB, Canada. Feb 7-8. (Oral).
 29. **Munira, S., Khan, F., Adesanya, T.**, Islam, M., Dynes, J., Regier, Z. T., Farenhorst, A. 2019. XANES, ¹³C NMR and ATR-FTIR spectroscopy investigation on the characterization of carbon functional groups of biochar. Soil Science Society America Annual Meeting, San Diego, CA, Jan 6-9. (Oral).
 30. **Gamhewage M.**, Farenhorst, A. Sheedy, C. (2019). Interactions of phenoxy herbicides with river bottom sediments. 62nd Manitoba Soil Science Society Annual General Meeting. Winnipeg, MB. (Oral).
 31. **L. Tran, A. Nabon, L.** Behjat, J. Dengate, A. Farenhorst (2019) Advancing Data Analytics & Machine Learning Applications for Decoding Gendered Language in Job Advertisements Related to STEM Professions. University of Calgary Undergraduate Student Research Symposium for Engineering (Poster - **won the Schulich School of Engineering Award**).
 32. **Adesanya T**, Zvomuya F, Farenhorst A. (2018). Sorption and sorption kinetics of sulfamethoxazole on cattail and switchgrass Roots as a mechanism for attenuation. Canadian Soil Science Society Annual Meeting. (Oral).
 33. **Adesanya T**, Zvomuya F, Farenhorst A. (2018). Sulfamethoxazole sorption by cattail and switchgrass roots as a mechanism for attenuation. Manitoba Soil Science Society Annual Meeting. (Oral).

34. **Amarawansha G**, Farenhorst A, Zvomuya F, **Mi, R.** (2018). Effect of water distribution method on microbial quality of drinking water in three First Nation reserves in Manitoba, Canada. Indigenous Health and Water Security. 68th Annual Conference of the Canadian Society of Microbiologists. (Oral).
35. **Anderson K**, Farenhorst A, Bharadwaj L. (2018). Perceptions, concerns, and management of drinking water in First Nations Communities. Manitoba Soil Science Society Annual Meeting. (Oral).
36. **Anderson K, Mi R, Amarawansha G**, Farenhorst A. (2018). Household drinking water security in Manitoba First Nations Communities. Annual Conference of the Canadian Society of Microbiologists. (Oral).
37. **Anderson K**, Brass A, Farenhorst A. (2018). Drinking water security in Pine Creek First Nation. Annual First Nation Water Research Conference. (Oral).
38. **Anderson K**, Brass A, Farenhorst A. (2018). A case study on drinking water security in a First Nations Community. Assembly of First Nations National Water Symposium & Trade Show. (Oral).
39. **Dengate J**, Peter T, Farenhorst A. (2018). "Above & Beyond": Gender, hidden care work and NSE faculty. Canadian Coalition of Women in Engineering, Science, Trades, and Technology (CCWESTT) Biennial Conference. (Oral).
40. Farenhorst A., Ross, W. Ross (2018). The NSERC CREATE H2O Program for First Nations Water and Sanitation Security: Case Studies on Drinking Water Quality. Indigenous Health and Water Security. 68th Annual Conference of the Canadian Society of Microbiologists, Winnipeg, Canada (Oral).
41. **Gamhewage M**, Sheedy C, Farenhorst A. (2018). Sorption-Desorption of phenoxy herbicides in river bottom sediments. Manitoba Soil Science Society Annual Meeting. (Oral).
42. **Khan F**, Farenhorst A, Munira S. (2018). Effect of biochar on sorption of emerging contaminants in soil. Second Prize for Poster Presentation. Manitoba Soil Science Society Annual Meeting. (Oral).
43. **Khan F, Munira S, Adesanya, T**, Dynes J, Regier T, Farenhorst A. (2018). Biochar impacts on the sorption of organic chemical compounds in soils. Canadian Soil Science Society Annual Meeting. (Oral).
44. **McMartin T**, Brassinga A, Farenhorst A. (2018). Optimization for the isolation of Legionella from First Nations potable water sources. Annual Conference of the Canadian Society of Microbiologists. Section: Applied and Environmental Microbiology (Oral).
45. **Mi R**, Patidar R, Zvomuya F, Khafipour E, **Anderson K**, Kumar A, Farenhorst A. (2018). Detection of E. coli / total coliforms and antibiotic resistance genes in drinking water collected from Pine Creek First Nation in Manitoba. Annual Conference of the Canadian Society of Microbiologists (Oral).
46. **Mi R, Arachchilage G**, Patidar R, Zvomuya F, Khafipour E, **Anderson K**, Kumar A, Farenhorst A. (2018). Detection of E. coli / total coliforms and antibiotic resistance genes in drinking water collected from Pine Creek First Nation in Manitoba. Annual First Nations Water Research Conference. (Oral).
47. **Mi R**, Patidar R, Zvomuya F, Khafipour E, *Anderson K, Kumar A, Farenhorst A. (2018). Detection of E.coli / total coliforms and antibiotic resistance genes in drinking water

- collected from First Nations Communities in Manitoba. Manitoba Soil Science Society Annual Meeting. (Oral).
48. **Munira S, Khan F, Adesanya T**, Islam M, Dynes J, Regier Z, Farenhorst A. (2018). Characterization of biochar carbon functional groups as determined by XANES, NMR and ATR-FTIR spectroscopy. Canadian Soil Science Society Annual Meeting (Oral).
 49. **Ross W.** and Farenhorst A. (2018). The NSERC CREATE H2O Program for First Nations Water and Sanitation Security: Case Studies on Drinking Water Quality. Indigenous Health and Water Security. 68th Annual Conference of the Canadian Society of Microbiologists. (Oral).
 50. **Saj D**, Peter T, Farenhorst A. (2018). Underrepresentation in enrollment & retention in STEM. Canadian Coalition of Women in Engineering, Science, Trades and Technology (CCWESTT). (Oral).
 51. **Sapkota S, Munira S**, Nilsson D, Sheedy C, Farenhorst A. (2018). Pesticide mixtures in groundwater of a prairie province in Canada. Manitoba Soil Science Society Annual Meeting. (Oral).
 52. **Theroux J**, Lobb D, Farenhorst A. (2017). Characterizing and identifying sediment sources in NHCN drinking water using sediment finger printing techniques. 4th CREATE H2O Conference, Winnipeg, Manitoba, Canada, June, 2017.
 53. Mavriplis C, Langelier E, Franz-Ondendaal T, Farenhorst A, Shannon L. (2017). Canada's National Network of NSERC Chairs for Women in Science and Engineering. Gender Summit, Canada, November 2017 (Poster)
 54. **Saj D**, Farenhorst A, Peter T. (2017). An empirical analysis of discrimination / harassment and perceptions of underrepresentation among students in STEM fields. Gender Summit, Canada, November 2017 (Poster)
 55. **Gamhewage M, Murdock A**, Farenhorst A, Sheedy C, Nilsson D. (2017). Detection of pesticides in four Manitoba Rivers. Annual First Nation Water Research Conference, Winnipeg, Canada. 4th CREATE H2O Conference, Winnipeg, Manitoba, Canada, June, 2017. (oral)
 56. **Mi R** Farenhorst A, Kumar A, Khafipour, E, Zvomuya F. (2017). Detection of E. coli / total coliforms and antibiotic resistance genes in drinking water collected from three First Nations communities in Manitoba. Canadian Society of Microbiologists 67th Annual Conference, Waterloo, June 2016. (oral)
 57. **Mi R**, Farenhorst A, Kumar A, Khafipour E, Zvomuya F,. (2017). Detection of E. coli / total coliforms and antibiotic resistance genes in drinking water collected from three First Nations communities in Manitoba. 4th CREATE H2O Conference, Winnipeg, Manitoba, Canada, June, 2017. (oral)
 58. **Gamhewage M**, Farenhorst A, Sheedy C, Nilsson D. (2017). Detection of pesticides in four Manitoba rivers. Society of Environmental Toxicology and Chemistry Prairie Northern Regional Chapter Annual Conference, Saskatoon, Canada Conference, June 2017. (oral)
 59. **Mi R**, Farenhorst A, Kumar A. (2017). Detection of E. coli / total coliforms and antibiotic resistance genes in drinking water collected from three First Nations communities in Manitoba. Manitoba Soil Science Society Annual Meeting, Winnipeg, Canada February 2017. (oral)

60. **Gamhewage M**, Nilsson D, Farenhorst A, Sheedy C. (2017). Detections of pesticides in four Manitoba rivers. Manitoba Soil Science Society Annual Meeting, Winnipeg, Canada February 2017. **First Prize for Oral Presentation.**
61. **Amarawansa G**, Farenhorst A, Zvomuya F. (2017). Bulk chlorine decay kinetics and chlorine demand of cistern water as affected by dissolved organic carbon content. Manitoba Soil Science Society Annual Meeting, Winnipeg, Canada February 2017. **First Prize for Poster Presentation.**
62. **Munira S**, Farenhorst A. (2017). Influence of phosphate concentrations on herbicide and antibiotic sorption and desorption in soil. Manitoba Soil Science Society Annual Meeting, Winnipeg, Canada February 2017. (oral)
63. **Munira S**, Farenhorst A, Flaten D, Grant C. (2017). Phosphate fertilizer impacts on glyphosate sorption by soil under different pH conditions. Manitoba Soil Science Society Annual Meeting, Winnipeg, Canada February 2017 (Poster). **First Prize for Poster Presentation.**
64. Farenhorst, A., Franz-Odendaal, T., Langelier, E., Mavriplis, C., Shannon, L. (2016). Engaging young girls in STEM through Canada, CCWEST 2016, Ottawa, May 3-6, 2016. (oral).
65. Hollett, S., Franz-Odendaal, T., Croft, E., Farenhorst, A., (2016). Insight into impact: an analysis of the impact of the WinSETT Leadership workshops, CCWEST 2016, Ottawa, May 3-6, 2016. (oral)
66. Mavriplis, C., Franz-Odendaal, T., Langelier, E., Farenhorst, A., Shannon, L. (2016). Coast to coast update of the NSERC Chairs for Women in Science and Engineering, CCWEST 2016, Ottawa, May 3-6, 2016.
67. Fernando, D.M., **Li, R.**, Tun, N.M., Poole, J., Khafipour, E., Fernando, D., Farenhorst, A., Kumar, A., Harper, R. (2016). Safe drinking water for all Canadians: reality or a myth? 3rd CREATE H2O Conference, Winnipeg, Manitoba, Canada, May 27, 2016.
68. **Amarawansa, E.A.G.S.**, Cook, F., Brass, A., Harper, R. Zvomuya, F., Farenhorst, A., (2016). Monthly variations of bacteria in piped and cistern water in three First Nation communities. 3rd CREATE H2O Conference, Winnipeg, Manitoba, Canada, May 27, 2016.
69. **Theroux, J.**, Lobb, D., Farenhorst, A. (2016). Characterizing and identifying sediment sources in Norway House Cree Nation drinking water using a sediment fingerprinting technique. 3rd CREATE H2O Conference, Winnipeg, Manitoba, Canada, May 27, 2016.
70. **Munira, S.**, Farenhorst, A., Akinremi, W., Bammeke, M. (2016). Field-aged phosphate impacts on glyphosate and phosphorus sorption patterns in two Prairie soils. Canadian Society of Soil Science Annual Meeting, Kamloops, British Columbia, Canada, May 14-19, 2016.
71. **Munira, S.**, Farenhorst, A., Akinremi, W., Bammeke, M. (2016). Glyphosate and phosphorus retention in Prairie soils. Soils and Crops conference, Saskatoon, Saskatchewan, Canada, March 15-16, 2016.
72. **Munira, S.**, Farenhorst, A., Akinremi, W., Bammeke, M. (2016). Adsorption maximum of phosphate and glyphosate retention as influenced by field-aged phosphate concentrations in Prairie soils. Manitoba Soil Science Society Annual Meeting, Winnipeg, Manitoba, Canada, February 4-5, 2016.
73. **Theroux, J.**, Lobb, D. Farenhorst, A. (2016). Characterizing and Identifying Sediment Sources in Norway House Cree Nation Drinking Water Using a Sediment Fingerprinting Technique. Manitoba Soil Science Society Annual Meeting, Winnipeg, Manitoba, Canada, February 4-5, 2016.

74. **Amarawansha, E.A.G.S.,** Farenhorst, A., Zvomuya, F. (2016). Seasonal and spatial variation of drinking water quality in First Nation reserves in Manitoba. Manitoba Soil Science Society Annual Meeting, Winnipeg, Manitoba, Canada, February 4-5, 2016.
75. **Mai, M., Mcadam, A., Amarawansha, G.,** Farenhorst, A. (2015). A comparison of methods to detect Escherichia coli contamination of drinking water. 3rd Annual Indigenous Health Symposium, Canada, 2015-11-24 (Poster)
76. Patidar, R., Morriseau, T., Fernando, D.M., Poole, J., **Amarawansha, G.,** Farenhorst, A., Kumar, A. (2015). Detection of Antibiotic Resistance Genes in Source and Drinking Water Samples from First Nation Communities in Canada. 3rd Annual Indigenous Health Symposium, Winnipeg, Canada, 2015-11-24 (Poster)
77. Papiernik, S., Koskinen, W., Farenhorst, A., Azcarate, R. (2015). Pesticide sorption and transport in variable landforms. Soil Science Society of America/American Society of Agronomy/Crop Science Society of America Conference, Minneapolis, Minnesota, USA, November 15-18, 2015. (abstract submitted)
78. **Li, R.,** Tun, H.M., Khafipour, E., Kumar, A., Fernando, W.G.D., Farenhorst, A. (2015). Differentiating between live and dead bacteria in water samples using PMA-16S rDNA and 16S rRNA based sequence. 2nd CREATE H2O Conference, Winnipeg, Manitoba, Canada, June 1, 2015. (Poster)
79. **Mi R.D., Harries J.E., Li R., Amarawansha, E.A.G.S.,** Ehsan K., Farenhorst, A. (2015). Use of ultraviolet probes for inactivating Escherichia coli and total coliforms in First Nation drinking water and river water. 2nd CREATE H2O Conference, Winnipeg, Manitoba, Canada, June 1, 2015. (Poster)
80. **Theroux, J.,** Lobb, D. Farenhorst, A. (2015). Identifying the sediment sources in Norway house drinking water using sediment fingerprinting technique. 2nd CREATE H2O Conference, Winnipeg, Manitoba, Canada, June 1, 2015.
81. **Hill, S.,** Peskoonas, K., Thompson, S., Farenhorst, A. (2015). Developing source water protection plans for three Manitoba First Nation communities based on science and Cree traditional knowledge. 2nd CREATE H2O Conference, Winnipeg, Manitoba, Canada, June 1, 2015.
82. **Amarawansha, E.A.G.S., Li, R., Mi, R.D.,** Zvomuya, F., Halldorson, T., Tomy, G., Eshan, K., Farenhorst, A. (2015). Comparison of drinking water quality in two water distribution systems common to First Nation communities in Manitoba. 2nd CREATE H2O Conference, Winnipeg, Manitoba, Canada, June 1, 2015.
83. **Li, R.,** Tun, H.M., Khafipour, E., Kumar, A., Fernando, W.G.D., Farenhorst, A. (2015). Using PMA-16S rDNA and 16S rRNA based sequence to discriminate between live and dead bacteria in water samples. CWRA 2015 National Conference, Winnipeg, Manitoba, Canada, June 2-4, 2015.
84. Farenhorst, A. Elias, B. (2015). The CREATE H2O program for water and sanitation security in First Nations. CWRA 2015 National Conference, Winnipeg, Manitoba, Canada, June 2-4, 2015.
85. **Amarawansha, E.A.G.S., Li, R., Mi, R.D.,** Zvomuya, F., Halldorson, T., Tomy, G., Eshan, K., Farenhorst, A. (2015). Comparison of drinking water quality in two water distribution systems common to First Nation communities in Manitoba. CWRA 2015 National Conference, Winnipeg, Manitoba, Canada, June 2-4, 2015.

86. **Theroux, J.**, Lobb, D., Farenhorst, A. (2015). Identifying the sediment sources in Norway House Cree Nation drinking water. CWRA 2015 National Conference, Winnipeg, Manitoba, Canada, June 2-4, 2015.
87. **Sapkota, K.**, Nilsson, D., Farenhorst, A., Sheedy, C. (2015). Occurrences of agricultural pesticides in groundwaters of Alberta. Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, June 15-18, 2015.
88. **Munira, S.**, Farenhorst, A., Flaten, D. Grant, C. (2015). Glyphosate sorption with different levels of phosphate fertilizer and pH in soils. Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, June 15-18, 2015.
89. **Munira, S.**, Farenhorst, A., Flaten, D. Grant, C. (2015). Does phosphate impact glyphosate fate in soil? Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, June 15-18, 2015. **Awarded 2nd prize in student competition**
90. **Theroux, J.**, Lobb, D., Farenhorst, A. (2015). Identifying the sediment sources in Norway House Cree Nation using a sediment fingerprinting technique. Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, June 15-18, 2015. (Poster)
91. **Amarawansa, E.A.G.S., Li, R., Mi, R.D.,** Zvomuya, F., Halldorson, T., Tomy, G., Eshan, K., Farenhorst, A. (2015). Drinking water quality in First Nation communities as affected by water distribution system. Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, June 15-18, 2015. (Poster)
92. **Munira, S.**, Farenhorst, A., Flaten, D. Grant, C. (2015). Influence of soil pH and inorganic phosphate levels on glyphosate sorption. Canadian Society of Soil Science/Association Québécoise de Spécialistes en Sciences du Sol/International Symposium of Interactions of Soil Minerals with Organic Components and Microorganisms, Montreal, Quebec, Canada, July 5-10, 2015.
93. **Theroux, J.**, Lobb, D., Farenhorst, A. (2015). Identifying turbidity sources near Norway House Cree Nation using sediment fingerprinting. Lake Winnipeg Research Consortium Annual Science Workshop, Winnipeg, Manitoba, Canada, February 18-19, 2015.
94. **Li, R.**, Tun, H.M., Khafipour, E., Kumar, A., Fernando, W.G.D., Farenhorst, A. (2015). Differentiating between live and dead bacteria in water samples using PMA-16S rDNA and 16S rRNA based sequence. Canadian Water Network, Connecting Water Resources 2015 Conference, Ottawa, Ontario, Canada, March 10-12, 2015.
95. **Mi R.D., Harries J.E., Li R., Eragoda Arachchilage, G.,** Ehsan K., Farenhorst, A. (2015). Use of UV probes for inactivating *E.coli* and total coliforms in First Nations drinking water and river water. Canadian Water Network, Connecting Water Resources 2015 Conference, Ottawa, Ontario, Canada, March 10-12, 2015.
96. **Munira, S.**, Farenhorst, A., Flaten, D. Grant, C. (2015). Effect of phosphorous and cadmium levels on glyphosate sorption. Annual Soils and Crops Conference 2015, Saskatoon, Saskatchewan, March 16 - 17, 2015.
97. Farenhorst, A., **Singh, B., McQueen, R.,** Malley, D.F. (2014). Near-infrared spectroscopy generated sorption input parameters for pesticide fate modeling. 13th IUPAC International Congress of Pesticide Chemistry, San Francisco, California, USA, August 10-14, 2014.
98. Chen, W., Koskinen, W., Farenhorst, A., Laabs, V., Ritter, A., Kookana, R., Sabljic, A., Sur, R., Ahmad, R., Carazo, E., Dallos, J.A.G., Miglioranza, K.S.B., Cesio, V., Zhou, J.. (2014). Quantitative review of pesticide environmental fate parameters and their relationship with

- soil and climate conditions. 13th IUPAC International Congress of Pesticide Chemistry, San Francisco, California, USA, August 10-14, 2014. (Poster)
99. **Li R.**, Khafipour E., Kumar A., Fernando W.G.D., Farenhorst A. (2014). Comparison of PMA-based 16S rDNA and 16S rRNA Illumina sequencing methods to discriminate dead and active microbes in water samples. 1st CREATE H2O Conference, Winnipeg, Manitoba, Canada, June 25-26, 2014.
 100. **Theroux, J.**, Farenhorst, A., Lobb, D. (2014). What Are The Effects of the 2-Mile Channel on Norway House Cree Nation Waters? 1st CREATE H2O Conference, Winnipeg, Manitoba, Canada, June 25-26, 2014.
 101. **Arachchilage, G.**, Farenhorst, A., Zvomuya, F. (2014). Drinking water Quality as affected by water treatment, distribution and source water quality. 1st CREATE H2O Conference, Winnipeg, Manitoba, Canada, June 25-26, 2014.
 102. **Pritty, P.**, Cook, F. and Farenhorst, A. (2014). Working with First Nations communities - Sapotawayak Cree Nation. 1st CREATE H2O Conference, Winnipeg, Manitoba, Canada, June 25-26, 2014.
 103. **Munira, S.**, Farenhorst, A., Flaten, D, Grant, C. (2014). Effect of phosphorous and cadmium levels on glyphosate sorption under a range of soil pH conditions. 57th Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, February 6-7, 2014. (Poster).
Awarded 1st prize in student competition.
 104. **Rose, K. P.**, Farenhorst, A., Claeys, A. and Ascef, B. (2014). Antibiotic and steroid estrogen mineralization in sewage sludge and biosolids. 57th Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, February 6-7, 2014. **Awarded 1st prize in student competition.**
 105. Farenhorst, A., **Singh, B., McQueen, R.**, Malley, D.F. (2014). Near-infrared spectroscopy generated sorption input parameters for pesticide fate modeling. 57th Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, February 6-7, 2014.
 106. **Munira, S.**, Farenhorst, A., Flaten, D, Grant, C. (2014). Does phosphate impact on glyphosate sorption? Manitoba Agronomists Conference. Winnipeg, Manitoba, Canada, December, 10-11, 2014 (Poster).
 107. **Theroux, J.**, Farenhorst, A., Lobb, D. (2014). Norway House Cree Nation sediment transport study. Lake Winnipeg Regulations Consultation Gathering, Norway House, Manitoba, Canada, September 8, 2014.
 108. **Rapai, J.O.**, Farenhorst, A., Doddz, J., VanWinkel, C., Ristock, J. (2014). University students' gender attitudes towards equity in higher education. 2014 WEPAN ChangeLeadForum, Minneapolis, Minnesota, USA, June 9-11, 2014.
 109. **Rapai, J.O.**, Farenhorst, A., Doddz, J., VanWinkel, C., Ristock, J. (2014). Diversity and gender in academia. CCWEST 2014, Regina, Saskatchewan, Canada, May 21-24, 2014.
 110. Farenhorst, A., Croft, E., Franz-Odendaal, T., Mavripli, C. (2014). Call to Action: The Gender Summit 3 in Washington D.C. CCWEST 2014, Regina, Saskatchewan, Canada, May 21-24, 2014.
 111. Farenhorst, A., Fallding, H., Busby, K., Elias, B., Metcalfe, C., Peter, S. and McQueen, D.A.R. (2013). Engaging students on water and sanitation security in First Nations communities. Joint Conference of the Canadian Society of Soil Science/Manitoba Soil Science

- Society/Canadian Society for Agricultural and Forest Meteorology, Winnipeg, Manitoba, Canada, July 22-25, 2013.
112. **Rose, K.**, Farenhorst, A. (2013). The fate effect of ciprofloxacin presence on estrogen degradation in sewage sludge and stabilized biosolids. Joint Conference of the Canadian Society of Soil Science/Manitoba Soil Science Society/Canadian Society for Agricultural and Forest Meteorology, Winnipeg, Manitoba, Canada, July 22-25, 2013.
 113. **Rapai, J.O.O.**, Farenhorst, A., Dodd, J., Ristock, J., Van Winkle, C. (2013). Equity in education: a case study of under-representation at a Canadian university. Joint conference of the Canadian Soil Science Society, Manitoba Soil Science Society, and Canadian Society for Agricultural and Forest Meteorology, Winnipeg, Manitoba, July 2013.
 114. **Rose, K.**, Farenhorst, A. (2013). The effect of agitation on estrogen mineralization in liquid swine manure. Joint Conference of the Canadian Society of Soil Science/Manitoba Soil Science Society/Canadian Society for Agricultural and Forest Meteorology, Winnipeg, Manitoba, Canada, July 22-25, 2013. (poster)
 115. **McQueen, R.**, Farenhorst, A., Giffin, T., Gonsalves, T., Gauthier, J. (2013). Increasing the Accessibility of Extension Information on the Internet. Joint Conference of the Canadian Society of Soil Science/Manitoba Soil Science Society/Canadian Society for Agricultural and Forest Meteorology, Winnipeg, Manitoba, Canada, July 22-25, 2013. (poster).
 116. **Munira, S.**, Farenhorst, A., Flaten, D. Grant, C. (2013). Effect of phosphorous and cadmium levels on glyphosate and AMPA sorption in soil under acidic and alkaline conditions. Joint Conference of the Canadian Society of Soil Science/Manitoba Soil Science Society/Canadian Society for Agricultural and Forest Meteorology, Winnipeg, Manitoba, Canada, July 22-25, 2013. (poster).
 117. Farenhorst, A. (2013). Gender Equity in the World of Agriculture. Diversity Fueling Excellence in Research and Innovation. Gender Summit 3 North America. November 13-15, 2013, Washington DC.
 118. Farenhorst, A. (2013). Prairie region Indigenous programs: Including First Nations histories and time-honoured traditions in university science and engineering training as part of best practices for recruitment and retention, with Croft, E., Ghazzali, N., Franz-Odendaal, T., Mavripli, C. in panel about the NSERC Chair for Women in Science and Engineering (CWSE) program, Gender Summit 3 North America. Washington DC, USA. November 13-15, 2013.
 119. Farenhorst, A. **Rapai, J.O.O.** (2013). Our hidden biases in hiring. Manitoba Community for Women in Engineering, Science, Technology and Trades (MCWESTT) 2013 Conference, Winnipeg, Manitoba, Canada.
 120. **Pritty, P. M.** and Farenhorst, A. (2013). Investigation of microbial contaminants in Tootinaowazbeeng First Nation water lands. Network Environment for Aboriginal Health Research Student Colloquium, May, 2013.
 121. **Wilson, J.**, Farenhorst, A., **McQueen, R.** (2013). Trends in herbicide risk indicators as a function of changes in herbicide use from 1996-2006 in Manitoba, Canada. 37th Annual Prairie Division of the Canadian Association of Geographers, Esterhazy, Saskatchewan, Canada, September 20-22, 2013.
 122. Croft, E., Farenhorst, A., Franz-Odendaal, T., Ghazzali, N, and Mavriplis, C. (2013). NSERC Chairs for Women in Science and Engineering, NSERC joint CDE-CWSE meeting, June 17, 2013.

123. **P. Messing**, A. Farenhorst¹, D. Waite, J. Sproull, D. Humphries, R. McQueen. (2012). Pesticide Concentrations in Atmospheric and Wetland Water Samples. 55th Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, February 2-3, 2012. **Awarded 1st prize in student competition.**
124. **Rose, K.** and Farenhorst, A. (2012). The Effect of Sub-Therapeutic Antibiotic Usage on Estrogen Mineralization in Liquid Swine Manure. 55th Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, February 2-3, 2012. **Awarded 2nd prize in student competition.**
125. **Andronak, L.**, Farenhorst, A., (2012). A Comparative Study of In-field and Laboratory Mineralization Rates of 17Beta-estradiol: Preliminary Results. 55th Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, February 2-3, 2012.
126. **Singh, B.**, Malley, D.F., Farenhorst, A. Feasibility of Near-Infrared Spectroscopy (NIRS) to predict the spatial variability of herbicide and estrogen sorption at the field scale. 55th Manitoba. 55th Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, February 2-3, 2012.
127. **Andronak, L.**, Farenhorst, A. (2012). Monitoring of Urban Atmospheric Pesticide Deposition in Winnipeg, Manitoba. 55th Manitoba Soil Science Society Conference, Winnipeg, Manitoba, Canada, February 2-3, 2012. (poster) **Awarded 2nd prize in student competition.**
128. **McQueen, R.**, Farenhorst, A., Gonsalves, T, Gauthier, J, Griffin, T. (2012). Update on the development of the Vegetable Growers Association of Manitoba website. Annual Meeting of the Vegetable Growers Association of Manitoba, Portage La Prairie, March 2012. (invited presentation)
129. **Andronak, L.**, Farenhorst, A. (2012). Monitoring of Urban Atmospheric Pesticide Deposition in Winnipeg, Manitoba, AQSSS-CSSS Joint meeting, Lac Beauport, Quebec, June 2012 (poster). **Awarded 1st prize in student competition.**
130. **Andronak, L.**, Farenhorst, A. (2012). A Comparative Study of In-field and Laboratory Mineralization Rates of 17Beta-estradiol and 2,4-D, AQSSS-CSSS Joint meeting, Lac Beauport, Quebec, June 2012.
131. **Rapai, J.O.O.**, Farenhorst, A., Dodd, J., Ristock, J., Van Winkle, C., (2012). 100 Years to Wait. The Canadian Coalition for Women in Engineering, Science, Trades and Technology, Halifax, Nova Scotia, May 2012 (poster).
132. **Andronak, L.**, Farenhorst, A. (2011). Urban Atmospheric Deposition of Selected Pesticides. 54th Manitoba Soil Science Society Meeting, Winnipeg, Manitoba, Canada, February 3-4, 2011. **2nd prize in student competition.**
133. **Andronak, L.**, Farenhorst, A. (2011). In-field Mineralization Rates of 2,4-D and 17 β -estradiol – Preliminary Results. 54th Manitoba Soil Science Society Meeting, Winnipeg, Manitoba, Canada, February 3-4, 2011. (poster). **Awarded 2nd prize in student competition.**
134. **Andronak, L.**, Farenhorst, A. (2011). Urban Atmospheric Deposition of Selected Pesticides in Winnipeg, Canada. ASA, CSSA and SSSA-CSSS International Meetings, San Antonio, Texas, October 16-19, 2011 (poster).
135. **Andronak, L.**, Farenhorst, A. (2011). A Comparative Study of In-field and Laboratory Mineralization Rates of 17 β -estradiol – Preliminary Results. . ASA, CSSA and SSSA-CSSS

- International Meetings, San Antonio, Texas, October 16-19, 2011. **C.F. Bentley Award first runner-up.**
136. **Caron, E.**, Farenhorst, A., Hao, X., Sheedy, C. (2011). Impact d'un long historique d'application de fumier de bovin sur le devenir du 17 β -estradiol dans un loam argileux. 26^{ème} Congrès régional de l'Est du Canada, Association canadienne sur la qualité de l'eau, Québec, Québec, 7 octobre 2011
 137. **McQueen, R.**, Farenhorst, A., **Gaultier, J.**, Elliot, B., Northover, P., Gonsalves, T., Giffin, T. (2011). Construction of an online database for the Vegetable Guide To Crop Production. Annual Vegetable Growers Association of Manitoba meeting, Portage La Prairie, Manitoba. March 23, 2011 (invited presentation).
 138. **Messing, P.**, Farenhorst, A., Waite, D., Humphries, D., **Thompson, L.**, Coulthard, L. (2011). Atmospheric concentrations of currently used pesticides in relation to wetland water quality in Manitoba, Canada. 2nd Young Environmental Scientists Meeting. Aachen, Germany. February 28 – March 3, 2011.
 139. **Messing, P.**, Farenhorst, A., Ross, L., Beaudry, M., **Thompson, L.**, and Coulthard, L. (2011). Impacts of a Mixture of Herbicides on Aquatic Invertebrates in Prairie Pothole Wetlands. 2nd Young Environmental Scientists Meeting. Aachen, Germany. February 28 – March 3, 2011.
 140. **Messing, P.**, Farenhorst, A., Waite, D., Sproull, J., Humphries, D., McQueen, R. (2011). A Regional Study on the Pesticide Concentrations in the Air. 54th Manitoba Soil Science Society Meeting, Winnipeg, Manitoba, Canada, February 3-4, 2011.
 141. **Messing, P.**, Farenhorst, A., Waite, D., Humphries, D., **Thompson, L.**, Coulthard, L. (2011). Atmospheric concentrations of currently used pesticides in relation to wetland water quality in Manitoba, Canada. 54th Manitoba Soil Science Society Meeting, Winnipeg, MB. Feb. 3-4, 2011 (Poster). **1st prize in the student poster competition**
 142. **Rose, K.**, Farenhorst, A. 2011. The Effect of Sub-Therapeutic Antibiotic Usage on Estrogen Mineralization in Liquid Swine Manure. University of Manitoba Undergraduate Poster Competition, Winnipeg, Manitoba, Canada. (Poster).
 143. **Singh, B.**, Farenhorst, A. and **McQueen, D.A.R.** (2011). Impacts of climate change on herbicide and estrogen leaching potential assessment by Pesticide Root Zone Modeling (PRZM). International ASA, CSSA, and SSSA Annual Meetings in San Antonio, TX, USA. Oct 16-19, 2011 (Poster).
 144. **Singh, B.**, Farenhorst, A. and Malley, D.F. (2011). Use of NIRS in quantifying the spatial variability of soil characteristics and herbicide sorption parameters at the field scale. 15th International Conference on Near Infrared Reflectance Spectroscopy (NIR-2011). May 16th-20th, 2011 Cape Town, South Africa.
 145. **Singh, B.**, Farenhorst, A. and Malley, D.F. (2011). Near InfraRed Spectroscopy to characterize soil properties and chemical sorption in soil profiles of the Newdale association. 54th Manitoba Soil Science Society Meeting, Winnipeg, MB. Feb. 4-5, 2011.
 146. **Caron, E.**, Farenhorst, A., Hao, X., and Sheedy, C. (2010). Impact de 35 ans d'application de fumier à différents taux sur la sorption et la minéralisation du 17 β -estradiol. Congrès conjoint de l'Association Québécoise des Spécialistes en Sciences du Sol et la Société de Protection des Plantes du Québec, 1-3 June, Oka, Québec.

147. **Caron, E.**, Farenhorst, A., **Gaultier, J.**, Sheedy, C. and Goddard, T. (2010). Mineralization of 17 β -estradiol in Alberta soils. 53rd Annual Manitoba Soil Science Society Conference, 4-5 February, Winnipeg, Manitoba.
148. **Caron, E.**, Farenhorst, A., Zvomuya, F., **Gaultier, J.**, Goddard, T. and Sheedy, C. (2010). Devenir des estrogènes naturels dans les sols de l'Alberta et développement d'une méthode de détection immunochimique. Séminaire du CRDSGC de AAC, 21 janvier, Québec, Québec.
149. **Caron, E.** Sheedy, C., Farenhorst, A., Zvomuya, F., **Gaultier, J.** and Goddard, T. (2010). Fate of estrogens in soils and detection by ELISA. European Geosciences Union General Assembly, 2-7 May, Vienne, Autriche.
150. **Caron, E.**, Sheedy, C. and Farenhorst, A. (2010). Development of competitive ELISAs for the determination of estrogen concentrations. 53rd Annual Manitoba Soil Science Society Conference, 4-5 February, Winnipeg, Manitoba. (Poster).
151. **Messing, P.**, Farenhorst, A., Waite, D., Humphries, D., **Laura Thompson, L.**, and Coulthard, L. (2010). Atmospheric Concentrations of Currently Used Pesticides in Relation to Wetland Water Quality in Manitoba, Canada. Joint Conference of the Canadian Society of Soil Science and the Canadian Society of Agronomy. Saskatoon, Canada. June 20 – 24, 2010.
152. **Messing, P.**, Farenhorst, A., Ross, L., Beaudry, M., **Thompson, L.**, and Coulthard, L. (2010). The Impact of Eight Herbicides at Environmentally Relevant Concentrations in Prairie Pothole Wetlands on Aquatic Invertebrates. Joint Conference of the Canadian Society of Soil Science and the Canadian Society of Agronomy, Saskatoon, Saskatchewan, Canada. June 20 – 24, 2010 (Poster).
153. **Messing, P.**, Farenhorst, A., Waite, D., Humphries, D., **Laura Thompson, L.**, and Coulthard, L. (2010). Atmospheric Concentrations of Currently Used Pesticides in Relation to Wetland Water Quality in Manitoba, Canada. Society of Environmental Toxicology and Chemistry Europe 20th Annual Meeting. Seville, Spain. May 23 – 27, 2010.
154. **Messing, P.**, Farenhorst, A., Ross, L., **Beaudry, M.**, **Thompson, L.**, and Coulthard, L. (2010). The Impact of Eight Herbicides at Environmentally Relevant Concentrations in Prairie Pothole Wetlands on Aquatic Invertebrates. Society of Environmental Toxicology and Chemistry Europe 20th Annual Meeting. Seville, Spain. May 23 – 27, 2010. (Poster).
155. **Messing, P.**, Farenhorst, A., Waite, D., Sproull, J., **Laura Thompson, L.**, and Coulthard, L. (2010). Atmospheric concentrations of currently used pesticides in Manitoba, Canada in relation to wetland water quality. Annual Series of Elizabeth Dafoe Library Graduate Student Lectures, University of Manitoba, Winnipeg, MB. March 5, 2010.
156. **Messing, P.**, Farenhorst, A., Waite, D., Humphries, D., **Laura Thompson, L.**, and Coulthard, L. (2010). Atmospheric Concentrations of Currently Used Pesticides in Relation to Wetland Water Quality in Manitoba, Canada. 53rd Manitoba Soil Science Society Meeting, Winnipeg, MB. Feb. 4-5, 2010.
157. **Messing, P.**, Farenhorst, A., Ross, L., **Beaudry, M.**, **Thompson, L.**, and Coulthard, L. (2010). The Impact of Eight Herbicides at Environmentally Relevant Concentrations in Prairie Pothole Wetlands on Aquatic Invertebrates. 53rd Manitoba Soil Science Society Meeting, Winnipeg, MB. Feb. 4-5, 2010 (Poster).
158. **Singh, B.**, Farenhorst, A. and Malley, D.F. (2010). Rapid Quantitative and Qualitative Spectral Analysis of Herbicides Sorption by Near Infrared Reflectance Spectroscopy (NIRS):

- A Ray of Evolution in Pesticide Science. Joint Conference of the Canadian Society of Soil Science and the Canadian Society of Agronomy. Saskatoon, Canada. June 20 – 24, 2010.
159. **Singh, B., Farenhorst, A., McQueen, R., Xu, D.** and Pennock D. (2010). Pesticide Root Zone Modeling (PRZM) at soil profiles of the St. Denis National Wildlife Area, Saskatoon, SK. Joint Conference of the Canadian Society of Soil Science and the Canadian Society of Agronomy. Saskatoon, Canada. June 20 – 24, 2010 (Poster).
 160. **Singh, B., Farenhorst, A., McQueen, R., Xu, D., Pennock D.** and **Gaultier, J. (2010)**. PRZM (Pesticide Root Zone Modeling) in Soil of Manitoba Zero Tillage Research Association (MZTRA) Research Farm. 53rd Manitoba Soil Science Society Meeting, Winnipeg, MB. Feb. 4-5, 2010. **Awarded 2nd prize in student competition.**
 161. Farenhorst, A., **McQueen, D.A.R., Saiyed, I., McQueen, P., Lobb, D., Messing, P., Goh, T.B., Li, S., Schumacher, T., and Papiernik, S.** (2010). 2,4-D Sorption Variations. 53rd Manitoba Soil Science Society Meeting, Winnipeg, MB. Feb. 4-5, 2010.
 162. Farenhorst, A., **McQueen, D.A.R., Saiyed, I., McQueen, P., Lobb, D., Messing, P., Goh, T.B., Li, S., Schumacher, T., and Papiernik, S.** (2010). Soil chemistry can be used in predicting 2,4-D sorption variations in soil-landscapes. Huang Memorial Symposium, Joint Conference of the Canadian Society of Soil Science and the Canadian Society of Agronomy. Saskatoon, Canada. June 20 – 24, 2010.
 163. **Degenhardt (Xu), D.,** Humphries, D., Raina, R., Cessna, A.J., Farenhorst, A. and Pennock, D.J. (2010). Dissipation of herbicides in water and sediment of two Canadian prairie wetlands. Joint Conference of the Canadian Society of Soil Science and the Canadian Society of Agronomy. Saskatoon, Canada. June 20 – 24, 2010.
 164. Farenhorst, A., Sims, L., Entz, M. and Lobb, D.L. (2010). Universities, communities and other stakeholders working together to improve pest management strategies and practices in Central America. Joint Conference of the Canadian Society of Soil Science and the Canadian Society of Agronomy. Saskatoon, Canada. June 20 – 24, 2010.
 165. Murata, A.P., **Meyer, S.,** Lobb, D.A., Pennock, D.J., Li, S., Farenhorst, A. (2010). Electrical Conductivity as an Indicator of Wetland Hydrology. Joint Conference of the Canadian Society of Soil Science and the Canadian Society of Agronomy. Saskatoon, Canada. June 20 – 24, 2010 (Poster).
 166. Murata, A.P., **Meyer, S.,** Lobb, D.A., Pennock, D.J., Li, S., Farenhorst, A. (2010). Electrical Conductivity as an Indicator of Wetland Hydrology. Manitoba Soil Science Society, 53rd Annual Meeting. Winnipeg, MB. February 4-5, 2010. (Poster).
 167. Murata, A.P., **Meyer, S.,** Lobb, D.A., Pennock, D.J., Li, S., Farenhorst, A. (2010). Electrical conductivity as an indicator of wetland surface hydrology in a Prairie Pothole landscape. Annual Student and Staff Symposium. Institute for Wetland and Waterfowl Research, Ducks Unlimited Canada, Winnipeg, Manitoba, Canada. March 2010. (Poster).
 168. Murata, A.P., **Meyer, S.,** Lobb, D.A., Pennock, D.J., Li, S., Farenhorst, A. (2010). Electrical conductivity as an indicator of wetland surface hydrology in a Prairie Pothole landscape. University of Manitoba Student Poster Competition, Winnipeg, Manitoba, Canada. February 2010. (Poster).
 169. **Caron, E,** Farenhorst, A., Sheedy, C., **Gaultier, J.** and Goddard, T. (2009). Fate of Estrogens in Soils from Alberta, Canada. ASA-CSA-SSSA International Annual Meeting, Pittsburgh, USA (Poster).

170. **Messing, P.**, Farenhorst, A., Waite, D., Sproull, J., Humphries, D. (2009). Atmospheric Concentrations of Currently Used Pesticides (CUPs) and their Contribution to Prairie Pothole Wetland Contamination in Manitoba, Canada. Manitoba Agronomists Conference 2009, Winnipeg, MB. December 15 and 16, 2009. (Poster).
171. **Degenhardt (Xu), D.**, Cessna, A.J., Humphries, D., Waiser, M., Farenhorst, A., Pennock, D.J. (2009). Dissipation of glyphosate and AMPA in prairie wetland water and sediment. Society of Environmental Toxicology and Chemistry North America 30th Annual Meeting, New Orleans, LA, U.S.A. November 19-23, 2009. (Poster).
172. **Messing, P.**, Farenhorst, A., Waite, D., Sproull, J., Humphries, D. (2009). Atmospheric Concentrations of Currently Used Pesticides (CUPs) and their Contribution to Prairie Pothole Wetland Contamination in Manitoba, Canada. Society of Environmental Toxicology and Chemistry North America 30th Annual Meeting, New Orleans, LA, U.S.A. November 19-23, 2009.
173. Farenhorst, A., Sims, L., Entz, M., Lobb, D. (2009). Universities, communities and other stakeholders working together to improve pest management strategies and practices in Central America. Manitoba Agronomists Conference 2009, Winnipeg, MB. December 15 and 16, 2009. (Poster).
174. Farenhorst, A., **Messing, P.**, Waite, D., Sproull, J., Humphries, D., **Thompson, L.**, Coulthard, L., **McQueen, D.A.R.** (2009). Atmospheric Concentrations of Pesticides in Canada in Relation to Wetland Water Quality. International Union of Pure and Applied Chemistry 3rd International Workshop on Crop Protection Chemistry in Latin America, Rio De Janeiro, Brazil. November 9-12, 2009 (Poster).
175. Farenhorst, A., Sims, L., Entz, M., Lobb, D. (2009). Universities, communities and other stakeholders working together to improve pest management strategies and practices in Central America. International Union of Pure and Applied Chemistry 3rd International Workshop on Crop Protection Chemistry in Latin America, Rio De Janeiro, Brazil. November 9-12, 2009 (Poster).
176. **Messing, P.**, Farenhorst, A., Ross, L., **Thompson, L.**, Waite, D., Sproull, J., Humphries, D. 2009. Atmospheric deposition by pesticides in Prairie Pothole Wetlands and the impacts of herbicide mixtures on Aquatic Invertebrates. Department of Soil Science seminars, Winnipeg, MB. November 3, 2009.
177. **Shymko, J.**, Farenhorst, A. **McQueen, D.A.R.**, **Gaultier, J.** (2009). Agricultural Pesticide Use Trends in Manitoba 1996 - 2006. Prairie Division of the Canadian Association of Geographers, Russell, Manitoba, September 18-20, 2009.
178. **Messing, P.**, Farenhorst, A., Ross, L., **Thompson, L.**, Waiser, M., Tumber, V., Sura, S. (2009). Impacts of a Mixture of Herbicides on Aquatic Invertebrates in Prairie Pothole Wetlands. The 44th Annual Western Canada Trace Organic Workshop, Winnipeg, MB. May 3-6, 2009.
179. **Meyer, S.**, Lobb, D., Pennock, D.J. Farenhorst, A. (2009). Surface hydrology of wetland basins in the Prairie Pothole Region using electrical conductivity as an indicator. Annual Student and Staff Symposium. Institute for Wetland and Waterfowl Research, Ducks Unlimited Canada, Winnipeg, MB. March 2009. (Poster).
180. **Meyer, S.**, Lobb, D., Pennock, D.J. Farenhorst, A. (2009). Surface hydrology of wetland basins in the Prairie Pothole Region using electrical conductivity as an indicator. Manitoba Soil Science Society, 52nd Annual Meeting. Winnipeg, MB. February 5-6, 2009 (Poster).

181. **Singh, B.**, Farenhorst, A., **Degenhardt (Xu), D.**, Pennock, D.J. (2009). Soil Properties and Herbicide Sorption in Soil Profiles of the Manitoba Zero Tillage Research Association (MZTRA) Research Farm. Manitoba Soil Science Society Meeting, 52nd Annual Meeting. Winnipeg, MB. February 5-6, 2009.
182. **Degenhardt (Xu), D.**, Cessna, A.J., Raina, R., Pennock, D.J., Farenhorst, A. (2008). Determination of Herbicide Reside in Wetland Sediment Using LC/MS/MS. Canadian Weed Science Society 2008 Annual Meeting, Banff, AB. Nov 25-27, 2008.
183. Sura, S., Waiser, M.J., Glozier, N. , Farenhorst, A., Donald, D.B. (2008). Effects of herbicide mixtures on microbial communities from prairie wetlands: A mesocosm approach. Poster presentation. North American Society of Environmental Toxicology and Chemistry, Tampa, Florida. November 2008 (Poster).\
184. **Thompson, L., Messing, P.**, Farenhorst, A. (2008). The Effect of Pesticides on Wetland Invertebrates. University of Manitoba NSERC Undergraduate Poster Presentation Competition, Winnipeg, MB. October 10, 2008 (Poster).
185. Sura, S., Waiser, M.J., Glozier, N. , Farenhorst, A., Donald, D.B. 2008. Effects of herbicide mixtures on microbial communities from prairie wetlands: A mesocosm approach. Aquatic Toxicity Workshop, Saskatoon, SK. October 2008. (Poster).
186. **Degenhardt (Xu), D., Meyer, S., Gaultier, J.**, Farenhorst, A., Pennock, D.J. (2008). Land Use and Riparian Effects on Prairie Wetland Sediment Properties and Herbicide Sorption. Canadian Soil Science Society Meeting, University of Prince George, Prince George, B.C. July 6-10, 2008.
187. **Degenhardt (Xu), D.**, Cessna, A.J., Raina, R., Pennock, D.J., Farenhorst, A. (2008). Determination of sulfonylurea herbicide residues in wetland sediment using LC/MS/MS. Canadian Soil Science Society Meeting, University of Prince George, Prince George, B.C. July 6-10, 2008.
188. **Degenhardt (Xu), D.**, Cessna, A.J., Raina, R., Pennock, D.J., Farenhorst, A. (2008). Determination of Herbicide Reside in Wetland Sediment Using LC/MS/MS. 91st Canadian Chemistry Conference and Exhibition, Edmonton, AB. May 24-28, 2008.
189. **Degenhardt (Xu), D.**, Cessna, A.J., Raina, R., Pennock, D.J., Farenhorst, A. (2008). Determination of Herbicide Reside in Wetland Sediment Using LC/MS/MS. 43rd Western Trace Organic Workshop, Saskatoon, SK. April 27-30, 2008.
190. Sura, S., Waiser, M.J., Glozier, N., Farenhorst, A., Donald, D.B., Tumber, V. (2008). Effect of Herbicide Mixtures on Microbial Communities from Prairie Wetlands: A Mesocosm Approach. Soils and Crops 2008 Meetings, University of Saskatchewan, Feb 28-29, 2008. (Poster).
191. Sura, S., Waiser, M.J., Glozier, N., Farenhorst, A., Donald, D.B. 2008. Effect of Herbicide Mixtures on Microbial Communities from Prairie Wetlands: A Mesocosm Approach. 51st Manitoba Soil Science Society Meeting, Winnipeg, MB. Jan. 31 - Feb. 1, 2008 (Poster).
192. **Messing, P.**, Farenhorst, A., Waite, D., Sproull, J. (2008). Atmospheric Detections of Pesticides in Manitoba - Preliminary Results. 51st Manitoba Soil Science Society Meeting, Winnipeg, MB. Jan. 31 - Feb. 1, 2008.
193. **Gaultier, J.**, S. Meyer, D. Lobb, S. Li, A. Farenhorst. Characterization of wetland hydrology in an agricultural landscape using electrical conductivity as an indicator. 51st Manitoba Soil Science Society Meeting, Winnipeg, MB. Jan. 31 - Feb. 1, 2008. (Poster).

194. Wolf, T.M., Leeson, J.Y., Cessna, A.J., Thomas, A.G., **McQueen, R.**, Sheedy, C., Farenhorst, A. (2008). Predicting air-borne droplet drift from agricultural areas. Canadian Weed Science Society Meeting, Banff, AB.
195. **Caron, E.**, Farenhorst, A., **Gaultier, J.**, Sheedy, C., and Goddard, T. (2008). Sorption of Four Estrogenic Compounds by Alberta Soils: the Importance of Spatial Variability. CSSS Conference, Prince George, B.C.
196. **Caron, E.**, Sheedy, C., and Farenhorst, A. (2008). Determination of estrogens in environmental samples using Enzyme-Linked ImmunoSorbent Assay. CSSS Conference, Prince George, B.C. (Poster).
197. **Caron, E.**, Sheedy, C., and Farenhorst, A. (2008). Determination of Estrogens in the Environment using Enzyme-Linked Immunosorbent Assay. Workshop on emerging contaminants, Edmonton, AB. (Poster).
198. **Caron, E.**, Sheedy, C., and Farenhorst, A. (2008). Enzyme-Linked Immunosorbent Assay for the Determination of Estrogens in the Environment. Proc. 51st MSSS Conference, Winnipeg, MB. (Poster).
199. **Messing, P.** Carazo, E. and Farenhorst, A. (2008). Pesticide Concentrations in Sediments and Irrigation Waters Entering a Protected Wetland Environment in Costa Rica – Preliminary Results. Proc. 51st MSSS Conference, Winnipeg, MB. (Poster).
200. Li, S., Lobb, D., Lindstrom, M.J., Papiernik, S.K., Farenhorst, A. (2007). Modeling tillage-induced redistribution of soil mass and its constituents within different landscapes ASA-CSSA-SSSA Conference, New Orleans, LA.
201. Farenhorst, A., McQueen, D.A.R, Cessna A.J. and Sheedy, C. (2007). The estimation of the risk of water contamination by herbicides in Manitoba using the pesticide fate model PRZM. Canadian Society of Soil Science (CSSS) Conference, Station touristique Duchesnay, Quebec, Canada.
202. **Caron, E.**, **Gaultier, J.**, Farenhorst, A., **Rank, N.**, Cessna A.J., Bailey, J., Sheedy, C., Hanson, M., and Goddard, T. (2007). Regional Variation of 17 β -Estradiol Sorption in Alberta Soils. CSSS conference, Station touristique Duchesnay, QBuebec, Canada. (Poster).
203. **Gaultier, J.**, Farenhorst, A., **McQueen, D.A.R.**, Cessna, A.J., Sheedy, C. (2007). IROWC-Pest: improving risk estimates by incorporating crop specific pesticide use functions. Proc. 50th MSSS Conference, Winnipeg, Manitoba, Canada.
204. Bailey, J., **Caron, E.**, Cessna A.J., Farenhorst, A., Sheedy, C. (2007). Maximizing sensitivity in the LC-MS/MS determination of estradiol, estriol, estrone and ethynyl-estradiol in natural waters. Western Canada Trace Organic Workshop, Calgary, AB.
205. Olk, D.C. Gregorich, E.G., Farenhorst, A., Hayes, M.H.B., Paul, E.A., Simpson, M.J. (2007). Biological, Chemical, and Physical Fractionations for Soil Organic Matter: Determining meaningful pools. Department of Soil Science and Land Management, Can Tho University, Can Tho, Vietnam.
206. Farenhorst, A. **McQueen, D.A.R.**, Cessna A.J., Sheedy, C. (2006). The Indicator of Risk of Water Contamination by Pesticides under the National Agri-Environmental Health Analysis and Reporting Program, 27th Annual Meeting of the Society of Environmental Toxicology and Chemistry North America, Montreal, Quebec, Canada.

207. **Gaultier, J.**, Farenhorst, A., Cathcart, J. and Goddard, T. (2006). Regional scale variability of soil properties and 2,4-D fate. Joint Canadian Geophysics Union (CGU) and CSSS conference, Banff, AB. **Awarded 2nd prize in student competition.**
208. **Gaultier, J.**, Farenhorst, A. (2006). Fate of 2,4-D as affected by soil depth. Joint CGU and CSSS conference, Banff, AB. (Poster)
209. Olk, D.C. Gregorich, E.G., Farenhorst, A., Hayes, M.H.B., Paul, E.A., Simpson, M.J. (2006). Biological, Chemical, and Physical Fractionations for Soil Organic Matter. Biannual international meeting of the International Humic Substances Society, Universitat Karlsruhe, Karlsruhe, Baden-Wurttemberg, Germany.
210. **Gaultier, J.**, A. Farenhorst. (2006). Fate of 2,4-D as affected by soil depth. 49th MSSS Conference, Winnipeg, MB. (Poster)
211. **Halibicki, P.S.** and A. Farenhorst. (2005). Soil properties affect Odyssey and Everest phytotoxicity. CSSS conference, Halifax, NS.
212. **Shymko, J.L.** and A. Farenhorst. (2005). Effect of landscape position, soil moisture and temperature on 2,4-D half-life. CSSS conference, Halifax, NS.
213. **McQueen, R.**, A. Farenhorst, and A.J. Cessna. (2005). The development of the Indicator of Risk of Water Contamination by Pesticides (IROWC-Pest) under the National Agri-Environmental Health Analysis and Reporting Program (NAHARP). CSSS conference, Halifax, NS.
214. **Halibicki, P.S.** and Farenhorst, A. (2005). Separate versus simultaneous application of Odyssey and Everest affects phytotoxicity. CSSS conference, Halifax, NS. (Poster)
215. **Shymko, J.L.** and Farenhorst, A. (2005). Determining pesticide fate using the first-order-kinetic model and the three-half-order kinetic model. CSSS conference, Halifax, NS. (Poster)
216. **McQueen, R.**, Farenhorst, A., and Cessna, A.J. (2005). Automation of classification of SLC polygons for risk of pesticide leaching. NAHARP National Workshop, Ottawa, ON. (Poster)
217. **Gaultier, J.**, A. Farenhorst, Cannon, K. and Goddard T. (2005). Mineralization of 2,4-D as affected by ecoregion and landscape position. 48th MSSS Conference, Winnipeg, Manitoba, Canada. (Poster) **Awarded 1st prize in student competition.**
218. **Shymko, J.L.** and A. Farenhorst. (2005). Effect of soil moisture on 2,4-D mineralization in a cultural field. 48th MSSS Conference, Winnipeg, Manitoba, Canada. (Poster)
219. **Gaultier, J.**, A. Farenhorst, K. Cannon, K. and T. Goddard. (2004). Factors controlling 2,4-D sorption in soils with low organic carbon content. ASA-CSSA-SSSA Conference Seattle, WA.
220. **Nahar, N.** and A. Farenhorst. (2004). Effects of soil-landscape variability on 2,4-D sorption and mineralization in agricultural fields. ASA-CSSA-SSSA Conference, Seattle, WA.
221. **Shymko, J.**, and A. Farenhorst. 2004. Effect of Landscape Position, Soil Depth, and Soil Moisture Content on 2,4-D Mineralization and Sorption. ASA-CSSA-SSSA Conference, Seattle, WA.
222. Farenhorst, A., **McQueen, R.** and Cessna, A. (2004). The Development of the Indicator of Risk of Water Contamination by Pesticides under NAHARP. ASA-CSSA-SSSA Conference Seattle, WA. (Poster)
223. **Gaultier, J.**, Farenhorst, A. Cannon, K. and Goddard T. (2004). Mineralization of 2,4-D as affected by ecoregion and landscape position. ASA-CSSA-SSSA Conference Seattle, WA. (Poster)

224. **Nahar, N.**, and Farenhorst, A. (2004). Herbicide Fate in Soils as Influenced by Soil Microbial Biomass and Landscape Position. ASA-CSSA-SSSA Conference Seattle, WA. (Poster)
225. **Shymko, J.**, and Farenhorst, A. (2004). Effect of landscape position soil moisture and temperature interaction on 2,4-D mineralization rates. ASA-CSSA-SSSA Conference, Seattle, WA. (Poster) **Awarded 2nd prize in student competition.**
226. Papiernik S.K., Lindstrom M.J., Schumacher T.E., Lobb D.A., Schumacher J.A., Farenhorst A. (2004). Variation in soil properties and crop yield across an eroded prairie landscape. ASA-CSSA-SSSA Conference Seattle, WA. (Poster)
227. Eynard, A., Schumacher, T.E., Kohl, Malo, Schumacher, Lindstrom, M.J., Papiernik, S.K., Lobb, D.A., Farenhorst, A. (2004). Spatial Patterns of Wettability in an Eroded Soil. ASA-CSSA-SSSA Conference Seattle, WA. (Poster)
228. Farenhorst, A., **McQueen, R.** and Cessna, A. (2004). The Development of the Indicator of Risk of Water Contamination by Pesticides under NAHARP. 5th Manitoba Agronomists (MA) Conference, Winnipeg, MB. (Poster)
229. **Gaultier, J.**, Farenhorst, A. Cannon, K. and Goddard T. (2004). Mineralization of 2,4-D as affected by ecoregion and landscape position. 5th MA Conference, Winnipeg, MB. (Poster)
230. **Nahar, N.**, and Farenhorst, A. (2004). Herbicide Fate in Soils as Influenced by Soil Microbial Biomass and Landscape Position. 5th MA Conference, Winnipeg, MB. (Poster)
231. **Shymko, J.**, and Farenhorst, A. (2004). Effect of landscape position soil moisture and temperature interaction on 2,4-D mineralization rates. 5th MA Conference, Winnipeg, MB. (Poster)
232. **Halabicki, P.S.** and A. Farenhorst. Odyssey and Everest Phytotoxicity as Affected by Soil Properties. Poster Presentation. 5th MA Conference, Winnipeg, MB. (Poster)
233. **Gaultier, J.**, and Farenhorst, A. (2004). Fate of 2,4-D as affected by landscape position and soil depth. Proc. 47th MSSS Conference, Winnipeg, MB. (Poster). **Awarded 1st prize in student competition.**
234. **Nahar, N.**, and Farenhorst, A. (2004). Spatial variability of soil organic carbon content and 2,4-D sorption within an agricultural field. Proc. 47th MSSS Conference, Winnipeg, MB. (Poster)
235. **Shymko, J.**, **Nahar, N.** and Farenhorst, A. (2004). Effect of landscape position and soil moisture on maximum rate of 2,4-D mineralization. Proc. 47th MSSS Conference, Winnipeg, MB. (Poster)
236. Farenhorst, A. and Lobb, D. (2003). Impact of tillage erosion on herbicide sorption in soil profiles. CSSS conference, Montreal, Quebec, Canada.
237. Farenhorst, A. and **Picton, P.** (2003). 2,4-D sorption and biodegradation. CSSS conference, Montreal, Quebec, Canada.
238. **Gaultier, J.**, Farenhorst, A., Cannon, K. (2003). Variability of 2,4-D sorption in agricultural fields as affected by ecoregion, landscape position, and soil depth. CSSS conference, Montreal, Quebec, Canada.
239. **Reimer, M.** and Farenhorst, A., 2003. 2,4-D degradation in amended soils. CSSS conference, Montreal, Quebec, Canada.
240. **Nahar, N.**, Wilson, J. and Farenhorst, A. (2003). Spatial variability of 2,4-D mineralization in an agricultural field. CSSS conference, Montreal, Quebec, Canada. (Poster).

241. **Gaultier, J.** and Farenhorst, A., 2003. Fate of 2,4-D as affected by landscape position and soil depth. CSSS conference, Montreal, Quebec, Canada. (Poster). **Awarded 1st prize in student competition**
242. **Reimer, M.** and Farenhorst, A., 2003. 2,4-D degradation as a result of incubation length of amended soils. CSSS conference, Montreal, Quebec, Canada. (Poster)
243. **Nahar, N., Shymko, J.** and Farenhorst, A. (2003). Effects of Landscape Variability on the Rate and Maximum 2,4-D Mineralization. CSSS conference, Montreal, Quebec, Canada. (Poster)
244. **Reimer, M., Gaultier, J.** and Farenhorst, A. (2003). Glyphosate degradation on soils with a history of manure application and amended with fresh hog manure. Proc. 46th MSSS Conference, Winnipeg, MB. **Awarded 1st prize in student competition**
245. **Picton, P.** and Farenhorst, A. (2003). Relation between sorption and biodegradation of 2,4-D in soil as influenced by soil organic matter characteristics. Proc. 46th MSSS Conference, Winnipeg, MB.
246. Friesen-Pankratz, B., Goldsborough, L.G., and Farenhorst, A. (2003). Lindane detection in prairie wetlands: Predicting the impact of a new Canadian policy. Proc. 46th MSSS Conference, Winnipeg, MB.
247. **Lanoie, J.M.,** Sherriff, B.L., Farenhorst, A., and Londry, K. (2003). How aging petroleum in clay reduces its bioavailability and hinders remediation. Proc. 46th MSSS Conference, Winnipeg, MB.
248. **Gaultier, J.** and Farenhorst, A. (2003). Fate of 2,4-D as affected by ecoregion, landscape position, and soil depth. Proc. 46th MSSS Conference, Winnipeg, MB. (Poster)
249. **Tsai, S.,** Farenhorst, A. and Lobb, D. (2003). Studies of herbicide sorption in topographically complex cultivated landscapes using ¹³⁷Cs as a tracer. Proc. 46th MSSS Conference, Winnipeg, MB. (Poster)
250. **Nahar, N., Shymko, J.L.** and Farenhorst, A. (2003). Effects of Landscape Variability on the Rate and Maximum 2,4-D Mineralization. 4th MA Conference, Winnipeg, MB. (Poster)
251. **Shymko, J.L., Nahar, N.** and Farenhorst, A. (2003). Effects of Landscape Position and Soil Moisture on the Maximum Rate of 2,4-D Mineralization. 4th MA Conference, Winnipeg, MB. (Poster)
252. **Reimer, M.** and Farenhorst, A. (2003). Degradation of 2,4-D in amended soils. 4th MA Conference, Winnipeg, MB. (Poster)
253. **Gaultier, J.,** and Farenhorst, A. (2003). Sorption of 2,4-D as affected by landscape position and soil depth. 4th MA Conference, Winnipeg, MB. (Poster)
254. Farenhorst, A. and Lobb, D.L. (2002). Tillage erosion and its impacts on herbicide sorption in cultivated, topographically complex landscapes, 3rd International Tillage Erosion Conference, Exeter, England. (Poster)
255. Friesen-Pankratz, B., Goldsborough, L.G., Farenhorst, A. (2002). The role of light and suspended solids in determining pesticide persistence in a coastal wetland. 45th Conference of the International Association of Great Lakes Research, Winnipeg, Manitoba, Canada.
256. **Lanoie, J.M.,** Sherriff, B.L., Farenhorst, A., and Londry, K. (2002). The chemical, mineralogical and biological effects of aging petroleum products in montmorillonite clay

- and the consequences for remediation. Geological Association of Canada, Saskatoon, Saskatchewan, Canada. (Poster)
257. **Stephens, K.** and Farenhorst, A. (2002). The spatial variability of soil properties and herbicide sorption and desorption in calcareous prairie landscapes. CSSS conference, Banff, Alberta, Canada.
 258. **Lanoie, J.M.,** Sherriff, B.L., Farenhorst, A., and Londry, K. (2002). Aging petroleum products in montmorillonite clay. CSSS conference, Banff, AB (oral presentation)
 259. Farenhorst, A., Lobb D.E., Lindstrom, M.J., Topp E., and **Stephens, K.** (2002). Herbicide sorption by soil within calcareous landscapes under various rates of erosion. CSSS conference, Banff, Alberta, Canada. (Poster)
 260. **Anderson, A.** and Farenhorst, A. (2002). Impact of tillage system, landscape position and soil texture on imazethapyr residual activity in soil. CSSS conference, Banff, Alberta, Canada (Poster)
 261. **Reimer, M., Gaultier, J.** and Farenhorst, A. (2002). The effect of hog manure applications on the degradation rates of herbicides in soil. CSSS conference, Banff, Alberta, Canada (Poster).
 262. **Stephens, K.** and Farenhorst, A. (2002). Herbicide sorption within calcareous landscapes. Proc. 45rd MSSS Conference, Winnipeg, MB. **Awarded 2nd prize in student competition**
 263. **Muc, D.** and Farenhorst, A. (2002). The Impact of a Potato Rotation on the Fate of Pesticides in Soil. Proc. 45rd MSSS Conference, Winnipeg, MB. (Poster)
 264. **Anderson, A.** and Farenhorst, A. (2002). Effect of tillage and landscape position on imazethapyr persistence in soil. Proc. 45rd MSSS Conference, Winnipeg, MB. (Poster)
 265. **Gaultier, J., Reimer, M.** and Farenhorst, A. (2002). Impact of manure applications on the degradation of herbicides in soil. Proc. 45rd MSSS Conference, Winnipeg, MB. (Poster)
 266. Farenhorst, A. and VanAcker, R. (2001). Impact of manure applications on weed control management. Livestock Options for the Future, Winnipeg, Manitoba, Canada. (Poster)
 267. **Stephens, K.** and Farenhorst, A. (2001). Sorption and desorption of 2,4-D in relation to soil variability and landscape position in a western Manitoba glacial till. Canadian Soil Science Society annual meeting, Guelph, Ontario, Canada.
 268. **Anderson, A.** and Farenhorst, A. (2001). The influence of tillage practices on the residual activity of imazethapyr in soils. Canadian Soil Science Society annual meeting, Guelph, Ontario, Canada.
 269. Farenhorst, A. and Lobb, D.A. (2001). Spatial dynamics of herbicide sorption in cultivated, topographically complex landscapes. Canadian Soil Science Society annual meeting, Guelph, Ontario, Canada. (Poster)
 270. **Muc, D.** and Farenhorst, A. (2001). The impact of a potato rotation on the behaviour of glyphosate in soil. Canadian Soil Science Society annual meeting, Guelph, Ontario, Canada,
 271. **Anderson, A.** and Farenhorst, A. (2001). The influence of tillage systems and landscape position on imazethapyr persistence in soil. Proc. 44rd Manitoba Soil Science Society conference, Winnipeg, Manitoba, Canada. (Poster)
 272. **Stephens, K.** and Farenhorst, A. (2001). Sorption of herbicide in relation to soil variability and landscape position. Proc. 44rd Manitoba Soil Science Society conference, Winnipeg, Manitoba, Canada. (Poster)

273. **Muc, D.** and Farenhorst, A. (2001). The impact of a potato rotation on the behaviour of herbicides in soil. Proc. 44rd Manitoba Soil Science Society conference, Winnipeg, Manitoba, Canada. (Poster)
274. Farenhorst, A., **Muc, D.**, and Monreal, C. (2000). Herbicide sorption by soil in relation to landscape position. Agri-Food 2000 Conference/CSSS annual meeting, Winnipeg, Manitoba, Canada (Poster)
275. Farenhorst, A., Florinski, I, Monreal, C., and **Muc, D.** (2000). Digital terrain modeling for predicting the spatical distribution of herbicide sorption in the landscape. Agri-Food 2000 Conference/CSSS annual meeting, Winnipeg, Manitoba, Canada (Poster)
276. Indratatne, S.P., Goh, T.B. and Farenhorst, A. (1999). Humic substances promote the adsorption of atrazine in suspensions with clays. First Symposium of the International Humic Substances Society – Canadian Chapter, Canadian Soil Science Society annual meeting, PEI, Canada. (Poster)
277. Farenhorst, A. 1996. Herbicide dissipation and earthworm activity. Canada-Ontario Agricultural Green Plan Workshop96. London, Ontario, Canada (Poster)
278. Farenhorst, A. 1993. Impact of earthworms on surface runoff and soil erosion rates. Third International Geomorphology Conference, Hamilton, Ontario, Canada (Poster)
279. Farenhorst, A. and Bryan, R.B. 1993. Particle size distribution of eroded sediment in shallow overland flow. Symposium on Experimental Geomorphology and Landscape Ecosystem Changes, Leuven, Belgium (Poster)

INVITED PRESENTATIONS

1. (2021) The efficiency of single-cell and two dual-cell biobeds under the humid continental climate of the Canadian Prairies. 51st IUPAC General Assembly & 48th World Chemistry Congress, Montreal, August 2021.
2. (2021) Gendered workplace experiences of academics at Canadian universities. 51st IUPAC General Assembly & 48th World Chemistry Congress, Montreal, August 2021.
3. (2021) World Water Day 2021: Global and Local Needs. Zoom Presentation and Discussion, Prairie Wind, Manitoba, Canada, March 21.
4. (2021) A Canadian University Climate Survey of Faculty Members: gendered barriers and addressing gendered university hierarchies to moderate the impact. Canadian Council of University Chemistry Chairs Zoom meeting focused topic: Equity, Diversity and Inclusion., March 9, 30 participants.
5. (2021) The United Nations Academic Impact Hub for Sustainable Development Goal 6 Clean Water and Sanitation. International Conference on SDG, Kristu Jayanti College, Bangalore, India, 22nd - 23rd January 2021. (received Certificate of Appreciation)
6. (2021) On-Farm and Agricultural Sector Innovations in Times of Climate Adaptation and Resilience Building Needs, D4 S2 Adaptation Technologies, Gender Equity, and Social Inclusion, 1st GOBESHONA GLOBAL Conference, Bangladesh, 18th - 24th January, 2021
7. (2020) Sustainable Agriculture - a closer look at pesticides and water. FARMTECH 2020, Edmonton, Alberta, Canada, January 28-30 2020. (honorarium offered)
8. (2019) Sustainable Agriculture - a closer look at pesticides and water. Association of Alberta Agricultural Fieldman, Banff, Alberta, December. (honorarium offered)

9. (2019). Ask me anything! CWRA-Ask Me, Canadian Water Resources Association, Winnipeg, Canada
10. (2019) Career paths, choices, and tips for leadership. WinSETT Leadership Workshop on Negotiating for Success, University of Alberta, Canada
11. (2019) First Nation Drinking Water Quality. RENR 360 Soil and Water Conservation Guest Lecture, University of Alberta, Canada
12. (2019) Sustainable Agriculture - a closer look at pesticides and water. 17th Bentley Lecture on Sustainable Agriculture, Faculty of Agricultural, Life and Environmental Sciences, University of Alberta, Canada
13. (2019) Pesticide sorption by soils and sediments, as well as other materials such as microplastics and biochars. 14th International IUPAC Conference of Crop Protection, Gent, Belgium
14. (2018) NSERC CREATE H2O Program for First Nations Water and Sanitation Security. Brokenhead Ojibway First Nation, Canada
15. (2018) The NSERC CREATE H2O Program for First Nations Water and Sanitation Security:
16. Case Studies on Drinking Water Quality. Indigenous Health and Water Security. 68th Annual Conference of the Canadian Society of Microbiologists, Winnipeg, Canada
17. (2018) Pesticides in the water-column and sediments of Manitoba rivers entering Lake Winnipeg. Province of Manitoba Water Systems Workshop, Winnipeg, Canada
18. (2018) Source and Drinking Water Quality in the Prairies: Highlights of recent research results involving quantifications of pesticides, bacteria and antibiotic resistance genes. Canadian Light Source, Saskatoon, Canada
19. (2017) Addressing Unconscious Bias. Senior Executive Retreat, University of Manitoba, Winnipeg, Canada
20. (2017) First Nations Drinking Water Quality. Grade 5/6, Denlow Public School, Toronto, Toronto, Canada
21. (2017) A message from scientists: Contaminants in drinking water sources of First Nations. The Right to Water and Sanitation Security in First Nation Communities Seminar series, Winnipeg, Canada
22. (2017) Celebrating women in science. University of Manitoba Faculty of Science Homecoming Luncheon, Winnipeg, Canada
23. (2017) This is what is in our water and what you should know to understand what it means. Nature Manitoba, Winnipeg, Canada
24. (2017) Unconscious bias and why does it matter? NSERC WISE Advancement Workshop, University of Alberta, Edmonton, Canada
25. (2016) Safe drinking water rights: A closer look at First Nations communities in Manitoba. Canadian Water Resources Association Webinar Series, March 29, 2016.
26. (2016) Panel Discussion on Navigating and Building Workshop Partnerships, The Outstanding Workplace Stories Series, University of Manitoba, March 11, 2016.
27. (2016) Strategies to increase gender diversity in the workplace, Association of Consulting Engineering Companies of Manitoba, Forth Whyte, Winnipeg, March 10, 2016.
28. (2015) The NSERC Chairs for Women in Science and Engineering Program: What we should know about the Fantastic Voyage and need for change. Theme: Inspiring Girls in STEM. 2nd

- International Festival of Science, Technology, Engineering & Mathematics Prairieland Park Trade and Convention Centre Saskatoon, Canada, Sept 27th – Oct 3rd 2015.
29. (2015) Canadian Prairies: Land, Water and Communities. FERA Science Ltd. National Agrifood Innovation Campus, Sand Hutton, York, North Yorkshire, England, February, 2015
 30. (2014) NSERC CREATE Program for Water and Sanitation Security in First Nations Communities. INCAS3 meeting, Winnipeg, Manitoba, February 26, 2014.
 31. (2014) Agricultural education, research and outreach: The importance of diversifying our actions. Symposium on Developing Global Leaders for Research, Regulation and Stewardship of Crop Protection Chemistry in the 21st Century, San Francisco, California, USA, August 10, 2014.
 32. (2014) The CREATE H2O Program: opening remarks, remarkable start, 1st CREATE H2O Conference, Winnipeg, Manitoba, Canada, June 25-26, 2014.
 33. (2014) Embracing Opportunities: Building Partnerships with Aboriginal Communities. The annual meeting of Western Vice-Presidents (Academic) and Provosts and Vice-Presidents (Research), Victoria, British Columbia, Canada, March 6-7, 2014.
 34. (2013) The importance of Water: Water's importance, and the science and the right to have clean water. Lake Winnipeg Basin Workshop, Canadian Water Network, August 19, 2013.
 35. (2013) Scientists in Training on Water Analysis: New Opportunities For Youth! Kleefeld School, Kleefeld, Manitoba, April 2, 2013.
 36. (2013) Engaging First Nations Youth in Water Projects. Assembly of Manitoba Chiefs First Nation Water and Legislative Forum, Winnipeg, Manitoba, Canada, March 13, 2013.
 37. (2013) Engaging the Youth and Leaders of Tomorrow in Water Rights Issues: What Works? Critical Conversations on water, Centre of Human Rights Research, University of Manitoba, Winnipeg, Manitoba, Canada, March 11, 2013.
 38. (2013) Canadian perspectives on Central American agriculture. Regional Symposium: Community-based pest management in Central American agriculture, Nicaragua, February 15, 2013
 39. (2013) Engaging First Nations Youth in Water Projects. Department of Soil Science, University of Manitoba, Winnipeg, Manitoba, Canada, February 29th, 2013.
 40. (2012) Voices of Central American farm families tell us about their pesticide use. Women Scholars Speakers Series, University of Lethbridge, Lethbridge, Alberta, Canada, December 10, 2012.
 41. (2012) Voices of Central American farm families about their pesticide use. Department of Environmental Studies and Sciences Seminar Series, University of Winnipeg, Winnipeg, Manitoba, Canada, November 14, 2012.
 42. (2012) Water and Food Security: At Home and Abroad. Canadian Water Resources Association: World Water Day event, Winnipeg, Manitoba, Canada, March 22, 2012.
 43. (2012) Why Do We Often Call Farmers "He" and Does it Really Matter? Agricultural Diploma Program, University of Manitoba, Winnipeg, Manitoba, Canada, March 19, 2012 (Guest lecture in DAGR0610 course).
 44. (2012) Women, Chemicals and Water. Gender, Science and Human Rights, Department of Women's and Gender Studies, University of Manitoba, Winnipeg, Manitoba, Canada, February 29th, 2012 (Guest lecture in course).

45. (2012) Water: Too Much, Too Little, Two Lakes. Presidential Visionary Conversations Speaker Series, University of Manitoba, Winnipeg, Manitoba, Canada, February 15th, 2012.
46. (2012) Tales and Thoughts from Farm Families in Central American Agriculture: Pesticides, Department of Entomology Seminar Series, Winnipeg, Manitoba, Canada, January 31, 2012.
47. (2010) Soil chemistry can be used in predicting 2,4-D sorption variations in soil-landscapes, Huang Memorial Symposium, Joint Conference of the Canadian Society of Soil Science and the Canadian Society of Agronomy, Saskatoon, Canada, June 2010.
48. (2010) Spatial assessments of pesticide sorption input parameters the use of radioisotopes techniques in advancing decision-making tools, Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, Melbourne, Australia, July 2010.
49. (2009) Changing behavior through capacity building in the "Community-based pest management in Central American agriculture, AUCC Western Canadian Tier II Workshop entitled: Educating for changes in practice and managing for local ownership. Calgary, Alberta, Canada, November 2009.
50. (2008) Collaborating to achieve results and engender a sense of ownership through participation in the Community-based pest management in Central American agriculture project, AUCC/CIDA Paris Indicator Workshop, Winnipeg, Manitoba, Canada, October 2008.
51. (2008) Using Pesticide (14C) Radioisotopes to Improve Agricultural Science -Policy Analyses at the Large Scale, Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, Vienna, Austria, November 2008.
52. (2008) Pesticide residues in Prairie wetlands, Manitoba Zero Tillage Research Association Farm Tour, Manitoba, Canada, 2008.
53. (2008) Jeopardizing our future: If one dose is good, than 30 doses are better, Manitoba Society of Soil Science Conference Keynote Banquette Speaker, Winnipeg, Manitoba, 2008.
54. (2006) The Post-application fate of herbicides: the effects of soil-landscape factors and farm management practices on agronomic and environmental considerations pertinent to prairie agriculture. Crop Advisor's Workshop, Saskatchewan Soil Conservation Association, Regina, Saskatchewan, Canada, 2006 (with written non-refereed paper).
55. (2006) Environmental Fate of Pesticides, Aerial Applicator's Association workshop, Brandon, Manitoba, Canada, 2006.
56. (2006) Pesticide use and risks in Manitoba, Faculty of Agriculture and Food Sciences Seminar Series, Winnipeg, Manitoba, Canada, 2006.
57. (2006) Spatial considerations in the life of a pesticide, Department of Entomology Seminar Series, University of Manitoba, Winnipeg, Manitoba, Canada, 2006.
58. (2005) Odyssey and Everest Phytotoxicity and Persistence as affected by soil properties. Manitoba Crop Production Industry Meeting, Winnipeg, Manitoba, Canada, 2005.
59. (2005) The Indicator of Risk of Water Contamination by Pesticides: Linkages and Opportunities, Linkages and Opportunities, Manitoba Agriculture, Food and Rural Initiatives, Winnipeg, Manitoba, Canada, 2005.
60. (2005) Herbicide carry-over in western Canada, Everest Technical Workshop, San Francisco, California, USA, 2005.
61. (2005) Odyssey and Everest Phytotoxicity and Persistence as affected by soil properties and environment, Everest Technical Workshop, San Francisco, California, USA, 2005.

62. (2004) El uso de indicadores y buenas practicas de manejo de plaguicidas para minimizar la contaminación ambiental. (presentation in English, slides in Spanish), CICA/OIEA/FAO, San José, Costa Rica, 2004.
63. (2004) Would additional information on soil organic matter fractions improve our understanding of pesticide sorption at the large scale? ASA-CSSA-SSSA Conference, Seattle, Washington, USA, 2004.
64. (2004) The impact of tillage operations on soil-landscape variability and the risk of surface water and groundwater pollution by pesticides, Soils and Crops Research and Development Centre, Sainte-Foy, Quebec, Canada, 2004.
65. (2004) Agricultural pesticides and water quality. 45th Conference of the International Association of Great Lakes Research, Winnipeg, Manitoba, Canada, 2004.
66. (2003) The NAHARP pesticide indicator. Pest Management Regulatory Agency Workshop on Pesticide Indicators, Fredericton, New Brunswick, Canada, 2003.
67. (2001) Herbicide efficacy and carry-over risks. Manitoba Agronomist Conference, Winnipeg, Manitoba Canada, 2001.
68. (2001) Pesticide use: agronomic and environmental issues. Canadian Association of Agri-Retailers (CAAR) Crop Management Forum, Winnipeg, Manitoba, Canada, 2001.
69. (2001) Impact of pesticide use on water quality, Agricultural and Agri-Food Canada Workshop on Agriculture and Water Quality, Ottawa, Ontario, Canada, 2001.
70. (2001) Land management and pesticide issues, Farming with the Aquifer, Carberry, Manitoba, Canada, 2001
71. (1999) Herbicide fate processes in soil, Manitoba Canola Growers Association and Canola Council Canada, Winnipeg, Manitoba, Canada, 1999.
72. (1998) Herbicide sorption and persistence. The 54th Annual Meeting of the Entomology Society of Manitoba, Winnipeg, Manitoba, Canada, 1998.

REPORTS

1. Franz-Odendaal, T., Mavriplis, C., Farenhorst, A., Shannon, L., Burchell, D., Marchand, S. 2021. NSERC CWSE Network Advancement Workshop Survey Results. NSERC Chairs Women in Science and Engineering Report. pp 1-15.
2. **Anderson, K.**, Knott, I., Farenhorst, A. (2019). Household water survey results – Wasagamack First Nation. *Winnipeg, MB: CREATE H2O Department of Soil Science, Univ. Manitoba*, pp.72
3. **Anderson, K.**, Prince, K., Farenhorst, A. (2019). Household water survey results – **Brokenhead** Ojibway Nation, *Winnipeg, MB: CREATE H2O Department of Soil Science, Univ. Manitoba*, pp. 53
4. **Dengate, J.**, Farenhorst, A., Peter, T., Franz-Odendaal, T., **Saj, D.**, Marchand, S., **Lepage, M.** (2019). Canadian Natural Sciences & Engineering (NSE) Faculty Workplace Climate Survey Results – Atlantic Canada. *Winnipeg, MB: Univ. Manitoba*, pp.12
5. **Anderson, K.**, Brass, A., Farenhorst, A., Peter, T. (2019). CREATE H2O Household Water Survey Results – Pine Creek First Nation. *Winnipeg, MB: CREATE H2O Department of Soil Science, Univ. Manitoba*, 105 pp.
6. Farenhorst, A., Peter, T., **Dengate, J.**, **Saj, D.**, **Lepage, M.** (2019). Canadian NSE Faculty Workplace Climate Survey Results - Prairies. *Winnipeg, MB: Univ. Manitoba*, pp. 11

7. Perreault, A., Franz-Odendaal, T., Langelier, E., Farenhorst, A. Mavriplis, C., Shannon, L. (2019). Analysis of the distribution of females and males in STEM fields in Canada. *Version 1.1.*, pp. 71
8. Theroux, J. Farenhorst, A. (2016). Norway House Cree Nation: Mercury and Hydrocarbons in source water traditional foods. First Nations Environmental Contaminants Program. pp. 62.
9. + Substantial number of data reports submitted to First Nations research partners as part of our water distribution studies that have involved the following First Nations reserves between 2013-2021: Canupawakpa Dakota First Nation, Fisher River Cree Nation, Garden Hill First Nation, Norway House Cree Nation, Pine Creek First Nation, Sapotaweyak Cree Nation.
10. + Substantial number of progress and final reports submitted between 1999 and 2021 as per requirements of grants and contracts awarded by AAFC, ARDI, Canola Council of Canada, CIDA, Environment Canada, Health Canada, MRAC, NSERC-CREATE, NSERC-CWSE, NSERC-SPG, and Vegetable Growers Association of Manitoba.

EXAMPLES OF MEDIA AND BROADCASTING ENGAGEMENT IN PAST 10 YEARS

2019	This First Nation produces clean water. So why are so many residents afraid to drink it? CBC Investigates.
2018	Supporting and Promoting Women in Science and Engineering, The Mid-Day Show, CHVN 95.1 FM
2016	Island Lake Has A Treatment Plant But Water Is Still "Alarmingly" Unsafe: Study, Huffingtonpost.ca
2016	Water 'alarmingly' tainted even on reserves with good treatment plants, study suggests, National Post
2016	Day of the Girl, University of Manitoba Research Life Magazine
2016	Five things to know about malathion, CBC Manitoba News Site
2016	Emerging threat! Antibiotic resistant bacteria found in fly-in community drinking water, Water Today (watertoday.ca)
2016	Soil Science researcher and champion of women in science and engineering: Research profile: Annemieke Farenhorst, The Manitoban (vol 102, no.29)
2015	Cisterns in Manitoba First Nations communities found to contain E. coli, Up to Speed, CBC Radio & CBC website feature
2015	Unsafe water in reserve storage tanks. Nearly one-third of tests fail in First Nations, Winnipeg Free Press
2015	What is in the water? Geoff Currier, 680 CJOB
2015	Young women encouraged to pursue careers in science, CTV news feature
2015	Malathion in Winnipeg rain, CBC Radio Winnipeg
2015	Experts find Malathion in city rainfall harms species, Winnipeg Free Press newspaper
2015	Water for Life, Magazine: Research LIFE, University of Manitoba

2015	International Day of the Girl UWinnipeg News Centre: http://news-centre.uwinnipeg.ca/wp-content/uploads/2015/10/Manitoba-news-release-Women-in-Science.pdf
2014	5th Biennial Conference of the Canadian Coalition of Women in Engineering, Science, Trades and Technology, CBC Radio Regina
2013	CREATE H2O program, CJOB Nighthawk & CBC Superior Morning & CBC Morning Show
2013	Yvonne Brill (30 December 1924 – 27 March 2013), a Winnipeg born pioneer and innovator in the field of rocket science, CTV News.
2012	Natural Science and Engineering Research Council of Canada: Chairs for Women in Science and Engineering (CWSE) Program – Part 2, International Innovation, September 2012
2012	Natural Science and Engineering Research Council of Canada: Chairs for Women in Science and Engineering (CWSE) Program – Part 1, International Innovation, August 2012
2011	Introduction to the new CWSE-Prairies Chair, UMFM
2011	Dr. Annemieke Farenhorst named NSERC Chair for Women in Science and Engineering, Farmscape post and interview

GRANTS AND CONTRACTS HELD

PI	Title	Funder	Year	CAN \$
Hotein	Building Community Capacity and Development of a Contaminant Response Plan in the Sioux Valley Dakota Nation	FNECP	2021-2022	25,000
Farenhorst	Integrated Pest Management Chair (Weed Science)	<i>Confidential</i>	2021-2026	1,340,000
Purchase	Development of four environmental chemistry and sustainability symposia for the 'chemistry for sustainability' thematic programme in 51st IUPAC General Assembly & 48th World Chemistry Congress, Montreal, 2021" (# 2021-008-1-600)	IUPAC	2021	937
Scanlon	Driving value-added agricultural innovation in Western Canada	<i>Confidential</i>	2020-2023	2,499,565
Peter	A cross-national, cross-sectional study of women's retention and advancement in information technology and engineering careers	SSHRC Insight Grant	2020-2023	212,170
Farenhorst	EDI Tips under the new normal (English/French)	NSERC CWSE	2020	14,000
Farenhorst	Prairie Crops & Soils Research Facility	<i>Confidential</i>	2019-2022	3,000,000
Farenhorst	Equipment for the Prairie Crops & Soils Research Facility	<i>Confidential</i>	2019-2022	1,411,858
Farenhorst	Field and Analytical Equipment to enhance Crop Research Capacity	<i>Confidential</i>	2019-2022	2,848,228
Farenhorst	Prairie Crops & Soils Research Facility	MCA	2021-2022	500,000
Wu	The Environment, Health and Food Safety Impact of Microplastics	IUPAC	2019-2021	20,000
Samar	Launching EDI Initiatives	UM FDIF	2019-2020	5,000
Farenhorst	Expanding the academic workplace climate survey to Ontario	NSERC CWSE	2019	11,250
Farenhorst	Factors influencing the fate of pesticides, antimicrobials and estrogens in soil	NSERC DG	2018-2023	180,000

Kumar	Studying microbial load and antibiotic resistance genes in source and drinking water from First Nation Reserves	CIHR Project Grant	2017-2022	623,000
Farenhorst + other PIs	Fostering relationships with First Nation communities: An online road map for undergraduate and graduate students in agriculture, engineering, environment and science	UM Indigenous Initiative Fund	2019-2021	90,000
Haque	Scaling climate change adaptation knowledge and technologies for empowering women, and to enhance social equity and disaster resilience in Bangladesh	IDRC Program Grant	2019-2022	509,028
Farenhorst	Biobed for managing pesticide rinsate with on-farm testing under Manitoba conditions	CAP	2019-2022	192,074
Farenhorst	NSERC CREATE Program for Water and Sanitation Security in First Nations	NSERC CREATE	2013-2019	1,650,000
Mavriplis	National Network for Chairs for Women in Science and Engineering	NSERC CWSE	2015-2019	345,000
Farenhorst	Prairie NSERC Chair for Women in Science and Engineering Program	NSERC CWSE	2017-2020	405,000
Farenhorst	Essential laboratory equipment to support research training and projects related to land and water management	UM Small Research Equipment Grant	2019	12,496
Kumar	Refrigerated shaking incubator for microbiological analysis of drinking water from Manitoba First Nations	UM Small Research Equipment Grant	2019	25,000
Brassinga	Isolation and Characterization of Legionella Species from First Nations Community Cisterns	UM Science Collaborative Grant	2018	9,650
Mavriplis	Gender Summit 11 North America 2017	NSERC CWSE	2017	25,000
Farenhorst	Liquid Scintillation Counter for Current-Use Pesticides and Emerging Contaminants	NSERC RTI	2017	133,385
Farenhorst	Expansion of Chairs for Women in Science and Engineering Program	NSERC CWSE	2017	40,000
Farenhorst	Women in the Science Cluster luncheon: Meet the new Deans & develop an action plan	UM Faculty Development Initiative	2015	3,263
McQueen	Purchase of microscopy equipment for the Soil and Water Quality Outreach Laboratory	FAFS Endowment Fund	2014	2,313
Farenhorst	CCWEST 2014 Conference	NSERC CWSE	2014	5,000
Farenhorst	Climatic and soil-landscape variations in relation to modeling pesticide fate in hummocky terrains	NSERC DG	2010-2018	294,000
Sheedy	Agricultural pesticides in Alberta groundwater	Alberta Innovates	2013-2016	120,000
Jayas (nominator)	NSERC Chair for Women in Science and Engineering - Prairie Region	NSERC CWSE	2011-2017	450,000
Leary	Environmental contaminant exposure through source water and traditional foods	Health Canada	2014-2015	119,000
Sheedy	Indicator of Risk of Water Contamination by Pesticides	AAFC	2010-2015	290,000

Unsworth	Framework for implementing consistent ecological risk assessment of pesticides for sustainable agriculture	IUPAC	2010-2014	45,000
Chen	Quantitative review and analysis of pesticide sorption and its effect on degradation in relation to soil and climate	IUPAC	2010-2014	23,950
Farenhorst	Multiplying or Replicating Tier 2 Results: Increasing sustainable food production in the region of Intibucá, Honduras, through community-based vermicomposting and irrigation gardening	CIDA Tier 2	2013	28,250
Audrey	Our right to clean water: First Nations youth test water quality	Health Canada	2012-2013	50,000
Farenhorst	Environmental sustainability of Central American agriculture	CIDA Tier 2	2006-2013	999,900
Farenhorst	Upgrading analytical equipment in the water quality outreach laboratory	FAFS Endowment Fund	2012	4,460
Elias	Cherishing water, claiming health: a planning symposium on water as a holistic health right	CIHR Planning Grant	2012	25,000
Farenhorst	VGAM online vegetable crop protection guide	AAFC Growing Forward	2010-2012	27,500
Elliot	Assessment of risk of pesticide contamination in the Assiniboine Delta Aquifer	Environment Canada	2009-2010	75,000
Farenhorst	Impact of land management and pesticide use on prairie wetland ecosystems	NSERC-SPG	2007-2010	575,168
Farenhorst	Soil-landscape variability and herbicide sorption by soil	NSERC DG	2005-2010	127,500
Cessna	The Indicator of Risk of Water Contamination by Pesticides (IROWC-Pest)	AAFC	2003-2008	300,000
Farenhorst	Linking the approaches of NAESI - GIBSI-pesticides and NAHARP - IROWC-Pest.	Environment Canada	2008	50,000
Farenhorst	Impact of tillage erosion on pesticide behaviour in Landscapes	NSERC-SPG	2001-2005	446,447
Farenhorst	Liquid Scintillation System for Agricultural and Environmental Studies	NSERC RTI	2004	59,836
Farenhorst	Spatial distribution of herbicide sorption within agricultural fields.	NSERC DG	2000-2005	88,000
Farenhorst	Impact of manure applications on weed control management	CCC/ARDI	2001-2003	93,674
Farenhorst	Impact of potato crop rotation on pesticide persistence and leaching	MRAC/MFP	2000-2003	86,000
Farenhorst	Development of a proposal for a national pesticide risk indicator for water quality	AAFC	2002	15,000
Farenhorst	Environmental fate of endocrine disrupting chemicals in soils	UM URGP	2002	7,500
Farenhorst	Chemical storage room for the Department of Soil Science	FAFS Endowment Fund	2002	7,925
Farenhorst	Development of software for digital terrain models and used for predicting the spatial distribution of herbicide sorption within agricultural fields	S&E Affairs Division NATO	2002	10,050

Farenhorst	Impact of tillage on herbicide efficacy and persistence	CCC/ARDI/ CCP	1999-2002	79,125
Farenhorst	High Performance Liquid Chromatograph	NSERC RTI	2001	60,665
Farenhorst	Pesticide and Bio pesticide Manuals for facilitating teaching and research activities.	FAFS Endowment Fund	2001	750
Farenhorst	Notebook computer for the Department of Soil Science	FAFS Endowment Fund	2001	2,995
Londry	Automated solvent extraction system	NSERC RTI	2000	83,871
Farenhorst	Impact of potato crop rotation on pesticide persistence and leaching	UM URGF	2000	4,000
Farenhorst	Student research assistant support	CPP/CFP	2000	1,930
Farenhorst	Automated sampler for gas chromatograph	NSERC-RTI	1999	13,258
Farenhorst	Materials to support student training	FAFS Endowment Fund	1999	2,984
Burton	Materials to support student training	FAFS Endowment Fund	1999	6,000
Farenhorst	Student research assistant support	CPP/CFP	1999	2,303
Farenhorst	Materials to support student training	FAFS Endowment Fund	1998	7,925
Farenhorst	Start-up funding	UM	1998-2000	30,000

U OF M COURSES TAUGHT (¹Co-taught)

Diploma

2000-2003	65.042 Introduction to Soils and Crops ¹ /Formation and Properties of Soils ¹ <i>Farenhorst, A. and Bullied, J. 2001. Laboratory manual: soils and crops. Univ. of Manitoba, pp. 110</i> <i>Farenhorst, A. and Smith, R. 2000. Introduction to soils and crops: A laboratory manual. Univ. of Manitoba, pp. 124</i>
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Undergraduate courses (¹Co-taught)

2006-2017	SOIL 3520 Pesticides: Environment, Economics and Ethics
2014	SOIL 4510 Soil and Water Management ¹
2014	SOIL 3600 Soils and Landscapes in our Environment ¹
2012-2013	LAW 3250 Critical Conversations: First Nations & The Right to Water ¹
2003-2010	AGRI/BOTN/ENVR/ZOOL 2180 Introduction to Toxicology ¹
2003-2010	AGRI/BOTN/ENVR/ZOOL 2190. Principles of Toxicology ¹
1995-2005	40.411 Agricultural Pesticides
1999-2005	40.454 Pesticides and Toxicology
1999	40.408 Soils Thesis

Graduate courses

2006-	SOIL 7220 Principles of Scientific Research ¹
2004-	SOIL 7180 Environmental Chemistry of Pesticides
2014	SOIL 7520 Develop Your Own Undergraduate Course

SUPERVISION OF STUDENTS

Postgraduate students currently supervised

PhD	Ms. Marufa Farmina, <i>Pesticide residues in rivers</i>
PhD	Mr. Fahad Khan, <i>Pesticide sorption in relation to biochar</i>
PhD	Ms. Geethani Eragoda Arachchilage, <i>First Nations drinking water quality</i>
MSc	Ms. Sarah Johnson, <i>On-farm biobeds for recycling pesticide rinsate</i>
MSc	Ms. Anita Murdock, <i>Microbiological quality of drinking water</i>

Undergraduate students supervised

Most of the undergraduate students that I supervise entered M.Sc. programs. Numbers refer to: ¹ NSERC Undergraduate Student Research Award holder; ² B.Sc. (Thesis)/Coop students ³ University of Manitoba Undergraduate Research Award holder; ⁴ Sponsored International undergraduate exchange student; ⁵ Other undergraduate students with individual projects; ⁶ Field or laboratory undergraduate research assistant, primarily assisting graduate students.

2021	Mr. Andrej Kao, Soil moisture probes in biobeds and the Internet of Things ⁵
2021	Ms. Phoenix Nakagawa, Sorption by biomixtures ¹
2020	Ms. Phoenix Nakagawa, <i>On-farm biobed to capture pesticide rinsate</i> ¹
2020	Ms. Arienne Nabong, <i>Gendered language in job advertisements</i> ¹
2019-2020	Ms. Delica Leboe-McGowan, <i>10 EDI tips</i> ⁵
2019	Ms. Danielle Saj, <i>EDI tips/Faculty Workplace Study</i> ⁵
2019	Ms. Arienne Nabong, <i>Decoding gendered language in job description</i> ¹
2019	Ms. Linh Tran, <i>Decoding gendered language in job description</i> ⁵ (Univ. Calgary)
2019	Mr. Stuart Campbell, <i>Promoting research projects with First Nation reserves</i> ⁵
2019	Ms. Phoenix Nakagawa, <i>Review of EDI committees within Universities</i> ⁵
2018	Ms. Letty-Lee May, <i>Optimizing biomatrix material to capture pesticides</i> ¹
2018	Ms. Teassa MacMartin, <i>Detection of Legionella anisa in First Nations home</i> ¹
2017	Ms. Letty-May Lee, <i>Particle size distributions in river sediments</i> ¹
2017	Ms. Anita Murdock, <i>Pesticides in river water and sediments</i> ¹
2016	Ms. Hannah Polaczek, <i>Mixture effects on individual chemical sorption</i> ³
2016	Ms. Anita Murdock, <i>Pesticides in river water and sediments</i> ¹
2016	Ms. Ashlyn Parrott, <i>Antimicrobial chemical impacts on soil microorganisms</i> ¹
2016	Ms. Jasmine Welgan, <i>Microbial contaminants in drinking water</i> ¹
2015-2016	Ms. Monica Mai, <i>Bacteria in drinking water</i> ²
2015	Mr. Jeff Seward, <i>Sediment source tracking in a First Nation</i> ¹
2015	Ms. Alexa McAdam, <i>Undergraduate research assistant</i> ⁶
2015	Mr. Jess Seward, <i>Undergraduate research assistant</i> ⁶
2015	Ms. Erika Flaten, <i>Undergraduate research assistant</i> ⁶
2015	Mr. Arthur Weldon, <i>Undergraduate research assistant</i> ⁶
2014-2015	Ms. Elizabeth Harris, <i>UV treatment for drinking water</i> ²
2014-2015	Mr. Ruidong Mi, <i>First Nations drinking water</i> ²
2014-2015	Mr. Alexander Shumilak, <i>Changes in pesticide use patterns due to GMO</i> ²

2013	Ms. Bruna Ascef, Brazil, <i>Antibiotics and estrogens</i> ⁴
2013	Ms. Anne Claeys, France, <i>Antibiotics and estrogens</i> ⁴
2013	Ms. Isca Spillet, <i>Traditional First Nations diet and spiritual connection to water</i> ⁵
2013	Ms. Pepper Pritty, <i>Contaminants in Tootinaowazbeeng First Nation</i> ⁵
2012	Ms. Isca Spillet, <i>Water Quality on First Nations reserves</i> ¹
2012	Ms. Karin Rose, <i>Antibiotics and estrogens</i> ¹
2011	Ms. Karin Rose, <i>Antibiotics and estrogens</i> ¹
2010	Ms. Lindsey Andronak, <i>Pesticides in Urban Rain</i> ¹
2009-2010	Ms. Tina Harms, Agroecology, <i>Rural communities in Honduras</i> ²
2009	Ms. Marina Beaudry, <i>Aquatic invertebrates</i> ¹
2009	Ms. Laura Thompson, <i>Aquatic invertebrates</i> ¹
2009	Ms. Elaine Gauer, <i>Undergraduate research assistant</i> ⁶
2008	Ms. Laura Thompson, <i>Aquatic invertebrates</i> ¹
2007	Mr. Norman Mclean, <i>Wet and dry deposition of 14 herbicides</i> ¹
2007	Ms. Nicole Rank, <i>Estrogen sorption by soil</i> ¹
2007	Ms. Sheila Meyer, <i>Undergraduate research assistant</i> ⁶
2006	Mr. Bryn James Sharkey, <i>Group 2 herbicides</i> ¹
2005	Mr. Paul Messing, <i>Soil-landscape variability and pesticide sorption</i> ¹
2005	Mr. Travis Carpenter, <i>Undergraduate research assistant</i> ⁶
2005	Ms. Shana Foidart, <i>Undergraduate research assistant</i> ⁶
2004	Mr. Paul Messing, <i>Soil-landscape variability and pesticide sorption</i> ¹
2004	Ms. Cindy Hildebrand, <i>Soil profiles</i> ¹
2004	Mr. David Cabanes, France, <i>Soil-landscape variability</i> ⁴
2003	Ms. Erin Becker, <i>Accelerated pesticide mineralization in soil</i> ¹
2003	Ms. Colleen Wilson, <i>Estrogens in manure</i> ¹
2003	Mr. Curtis Kellet, <i>Undergraduate research assistant</i> ⁶
2003	Ms. Janelle Ramnath, <i>Undergraduate research assistant</i> ⁶
2002-2003	Ms. Paula Halkibicki, Agroecology, <i>Sorption-degradation relations</i> ²
2002-2003	Mr. Shaan Tsai, <i>Soil erosion and pesticide sorption</i> ²
2002	Ms. Paula Picton, <i>Pesticide sorption and degradation relations</i> ¹
2002	Ms. Ludivine Crochet, France, <i>Calcium carbonate and pesticides</i> ⁴
2002	Mr. Shane Shumsky, <i>Undergraduate research assistant</i> ⁶
2002	Mr. Cam Murphy, <i>Undergraduate research assistant</i> ⁶
2002	Mr. Shaan Tsai, <i>Undergraduate research assistant</i> ⁶
2002	Mr. Dawirai Sima Kawadza, <i>Undergraduate research assistant</i> ⁶
2002	Ms. Cecilia Doebel, <i>Undergraduate research assistant</i> ⁶
2001	Ms. Jeanette Gaultier, <i>Trifluralin and glyphosate fate in soil</i> ¹
2001	Ms. Lise Smith, <i>Pesticide photodegradation</i> ¹
2001	Mr. Brent Prokopowich, <i>tank mixtures and herbicide fate</i> ¹
2001	Mr. Kelsey Desjardin, <i>Undergraduate research assistant</i> ⁶
2000	Ms. Jodi Dexter, <i>Undergraduate research assistant</i> ⁶
2000	Ms. Cindy Lambert, <i>Undergraduate research assistant</i> ⁶
2000	Mr. David Huck, <i>Undergraduate research assistant</i> ⁶
1999-2000	Mr. Dennis Muc, Agronomy, <i>Pesticide sorption</i> ²

1999	Ms. Jocelyn Guerero, <i>Undergraduate research assistant</i> ⁶
1998	Ms. Nahid Amad, <i>Undergraduate research assistant</i> ⁶
Doctoral theses completed	
2021	Dr. Theresa Adesanya, <i>Phytoremediation and antibiotics</i>
2021	Dr. Stewart Hill, <i>First Nations watershed management planning</i>
2017	Dr. Sirajum Munira, <i>Glyphosate fate in soils</i>
2016	Dr. Baljeet Singh, <i>NIRS studies and soil-landscape variability</i>
2015	Dr. Paul Messing, <i>Pesticides in the atmosphere</i>
2012	Dr. Janna Symko, <i>Pesticide mineralization and use patterns</i>
2011	Dr. Emmanuelle Caron, <i>Fate of estrogens</i>
2010	Dr. Dani Xu, <i>Herbicide fate in prairie wetlands</i>
2006	Dr. Jeanette Gaultier, <i>2,4-D sorption and mineralization</i>
Master's theses completed	
2021	Ms. Sabrin Bashar, <i>Antimicrobial resistance genes in drinking water</i>
2020	Ms. Kristi Anderson, <i>Clean running drinking water as human right</i>
2019	Ms. Mauli Gamhewage, <i>Pesticides in Manitoba rivers</i>
2018	Mr. Ruidong Mi, <i>Biofilms and antibiotic resistance genes</i>
2017	Ms. Kamala Sapkota, <i>Pesticides in Alberta groundwater</i>
2017	Ms. Johanna Theroux, <i>Sediment loadings in First Nations waters</i>
2014	Ms. Karin Rose, <i>Antibiotics and estrogen fate</i>
2013	Ms. Lindsey Andronak, <i>Pesticides in rain and soil</i>
2009	Ms. Paula Halkibicki, <i>Group 2 herbicides</i>
2006	Ms. Amber Anderson, <i>Group 2 herbicides</i>
2005	Ms. Nurun Nahar, <i>Soil-landscapes and pesticide fate</i>
2004	Ms. Marguerite Reimer, <i>Manure and pesticide fate</i>
2003	Mr. Kristian Stephens, <i>Soil-landscapes and pesticide sorption</i>
2003	Mr. Dennis Muc, <i>Cropping systems and herbicide fate</i>

SUPERVISION OF POST DOCTORAL FELLOWS, RESEARCH ASSOCIATES AND ASSISTANTS

2021-2023	Research Associate	Dr. Alistair Brown, <i>Pesticide residue analyses</i>
2018-2020	Post Doctoral Fellow	Dr. Jennifer Dengate, <i>University climate surveys</i>
2003-2019	Research Associate	Dr. Ross McQueen, <i>Pesticide fate modeling and measurements</i>
2017-2019	Post Doctoral Fellow	Dr. Sirajum Munira, <i>Characterization of biochar C functional groups</i>
2015-2016	Post Doctoral Fellow	Dr. Musarrat Jahan, <i>Source tracking the bacteria in drinking water</i>
2015-2016	Research Assistant	Ms. Inoka Amarakoon, <i>Steroid estrogen mineralization</i>
2013-2014	Post Doctoral Fellow	Dr. Ru Li, <i>Microbial DNA and RNA</i>
2007-2008	Post Doctoral Fellow	Dr. Jeanette Gaultier, <i>Wetland sediment and pesticides</i>
2003-2005	Post Doctoral Fellow	Dr. Ibrahim Saiyed, <i>Soil organic matter quality and pesticides</i>

VISITING SCHOLARS

2008	Dr. Sung-Min-Kim, Pesticide chemist, Bayer Crop Science Ltd., Republic of Korea.
2001	Dr. Joulia Meshalkina, Agronomist, Moscow State University, Russia.
2000	Mr. Pavel Kozlow, Software Engineer, Protek Centre, Russia.

OUTREACH INVOLVING HIGH SCHOOL PROJECT STUDENTS¹ AND VERA J. KIRKNESS SCIENCE AND ENGINEERING EDUCATION PROGRAM PARTICIPANTS²

2021	Ms. Nikina Bear-Lowen, <i>Water, soil and microbes testing</i> ² (virtual)
2021	Ms. Rachel DeCicco, <i>Water, soil and microbes testing</i> ² (virtual)
2021	Ms. Alexa Harvey, <i>Water, soil and microbes testing</i> ² (virtual)
2021	Ms. Sasha Houle, <i>Water, soil and microbes testing</i> ² (virtual)
2021	Ms. Precious Katcheech, <i>Water, soil and microbes testing</i> ² (virtual)
2021	Ms. Luciane Burgess, <i>Water, soil and microbes testing</i> ² (virtual)
2021	Ms. Mya Cardinal, <i>Water, soil and microbes testing</i> ² (virtual)
2021	Mr. Silas Mitchell, <i>Water, soil and microbes testing</i> ² (virtual)
2021	Ms. Rita-Jeanne Smith, <i>Water, soil and microbes testing</i> ² (virtual)
2019	Ms. Ash, <i>Water, soil and microbes testing</i> ²
2019	Ms. Trista, <i>Water, soil and microbes testing</i> ²
2019	Ms. Sierra, <i>Water, soil and microbes testing</i> ²
2019	Ms. Yvette, <i>Water, soil and microbes testing</i> ²
2019	Ms. Gabbie, <i>Water, soil and microbes testing</i> ²
2018	Ms. Elexis Ackland (Manitoba) <i>Water, soil and microbes testing</i> ²
2018	Ms. Kirsten Pameolik (Nunavut) <i>Water, soil and microbes testing</i> ²
2017	Ms. Madisson Beardy (Manitoba) <i>Water, soil and microbes testing</i> ²
2017	Ms. Madison Anderson (Manitoba) <i>Water, soil and microbes testing</i> ²
2017	Ms. Cairo D'Cruz (Manitoba) <i>Water, soil and microbes testing</i> ²
2017	Ms. Marissa Shepard (New Brunswick) <i>Water, soil and microbes testing</i> ²
2016	Mr. Scott Johnson (Manitoba) <i>Peat moss and water quality</i> ¹
2016	Ms. Savannah Stevenson (Manitoba) <i>Composting and vermiculture</i> ¹
2016	Ms. Harmony Cunningham (Alberta) <i>Water, soil and microbes testing</i> ²
2016	Ms. Antoninia Kandjurin (Manitoba) <i>Water, soil and microbes testing</i> ²
2015	Ms. Janelle Spry (Alberta) <i>Water and soil testing</i> ²
2015	Ms. Kiera Tsakona (British Columbia) <i>Water and soil testing</i> ²
2014	Ms. Christie Saulis (New Brunswick) <i>Water and soil testing</i> ²
2014	Ms. Creeanna Cook (Manitoba) <i>Water and soil testing</i> ²
2013	Ms. Lorriane Randhile (Saskatchewan) <i>Water and soil testing</i> ²
2013	Ms. Laura King (Manitoba) <i>Water and soil testing</i> ²
2012	Ms. Verla (Manitoba) <i>Water and soil testing</i> ²
2012	Mr. Dale (Manitoba) <i>Water and soil testing</i> ²
2008	Mr. Weng (Manitoba) <i>Aquatic invertebrates</i> ¹
2003	Ms. Wilson (Manitoba) <i>Pesticides in Urban Rain</i> ¹ Awarded gold medal
2003	Ms. Cianflone (Manitoba) <i>Pesticides in Urban Rain</i> ¹ Awarded gold medal
2002	Mr. Cordingley (Manitoba) <i>Soil-landscape studies</i> ¹
2002	Mr. Noakes (Manitoba) <i>Soil-landscape studies</i> ¹

2002 Mr. Roorda (Manitoba) *Soil-landscape studies*¹
 2000 Ms. Simmonds (Manitoba) *Soil colors*¹

POSTGRADUATE STUDENT COMMITTEES AS MEMBER OR EXTERNAL EXAMINER

2016-2020	PhD	Member	Dr. Masoud Goharrokhi (Soil Science)
2017-2021	MSc	External	Ms. Chelsea Voinorosky, Toxicology Centre, USaks
2015	MSc	Member	Mr. Nolan Snyder (Environment and Geography)
2015	PhD	External	Dr. Anson Main, Biology, USask
2015	PhD	External	Dr. Nazia Rafique, Chemistry, Lahore College for Women University, Pakistan.
2014-2021	MSc	Member	Ms. Sarah Warrack (Environment and Geography)
2010-2016	PhD	Member	Dr. Inoka Amakaroon (Soil Science)
2012-2014	MSc	Member	Ms. Reanne Pernerowski (Soil Science)
2006-2014	PhD	Member	Dr. Sunday Oghiakhe (Entomology)
2010-2013	PhD	Member	Dr. Zhe Lu (Chemistry)
2010-2013	MSc	Member	Ms. Kristine Waddell (Plant Science)
2008-2011	MSc	Member	Ms. Amanda Chaulk (Environment)
2007-2012	PhD	Member	Mr. Sirinvas Sura (Food & Applied Microbiol. Sciences, USask)
2007-2008	MSc	Member	Ms. Cheryl Daher (Environment)
2003-2007	PhD	Member	Dr. Li Sheng (Soil Science)
2003-2005	MSc	Member	Ms. Kristin Hacault (Plant Science)
2003	PhD	External	Dr. El-Morsi, Chemistry, University of Winnipeg
2003	PhD	External	Mr. Hesnawi, Civil Engineering, University of Manitoba
2002-2004	MSc	Member	Ms. Jody Dexter (Plant Science)
2002	MSc	External	Mr. Wesley Budakowski, Chemistry, Univ. of Manitoba
2001-2006	MSc	Member	Ms. Aleisha Reimer (Soil Science)
2001-2004	MSc	Member	Ms. Joanne Lanoie (Soil Science)
2001-2003	MSc	Member	Mr. Jaret Sawchuk (Plant Science)
2001	MSc	External	Ms. Amanda Bergman, Microbiology, Univ. of Winnipeg
2000-2001	MSc	Member	Mr. Nathan Froese (Plant Science)
2000-2001	MSc	Member	Mr. Leo Nicolas (Soil Science)
1999-2005	PhD	Member	Dr. Bruce Friesen-Pancratz (Biology)
1999-2004	PhD	Member	Dr. Micheal Ryan (Soil Science)
1999-2004	MSc	Member	Ms. Kelly Senwik (Soil Science)
1999	MSc	Member	Mr. Jamal Harb (Community Health Sciences)

SUPERVISION OF SUPPORT STAFF

Support staff currently supervised

2019-	Ms. Kim Stefaniuk, NSERC CWSE program coordination and FAFS EDI development
2019-	Mr. Warren Bard, Website development (e.g., https://umanitoba.ca/agricultural-food-sciences/make)
2017-	Ms. Heather Wiebe, Executive Assistant to ADR
2017-	Ms. Chantal Bassett, FAFS Research Facilitator
2017-	Ms. Christine Rawluk, FAFS Research Development Coordinator
2017-	Ms. Siobhan Maas, Agricultural mentorship program for women in Agri-Food professions

Program coordinators associated with research programs

2013-2019	NSERC CREATE H2O Program Coordinator	Ms. Wendy Ross (+ Mr. Brennan Manakoesick and Ms. Jaymie Balfour as temporary maternity leave replacements)
2011-2019	WISE Kid-Netic Energy-NSERC CWSE Program Coordinator	Ms. Lena Yusi, Ms. Mahalia LePage, Ms. Jackie Onagi
2007-2014	CIDA-Tier 2 Central America Program Coordinator	Dr. Laura Sims, Ms. Jesica Herrera, Dr. Barbara Mulock

PROFESSIONAL ACTIVITIES AND COMMITTEE MEMBERSHIPS AT INTERNATIONAL, NATIONAL AND PROVINCIAL LEVELS

International level

2022-2023	Vice-President, Division VI, Chemistry and the Environment, International Union of Pure and Applied Chemistry (Elected by popular vote)
2020-2022	Secretary, Division VI, Chemistry and the Environment, International Union of Pure and Applied Chemistry (Elected by popular vote)
2018-	Titular Member, Division VI, Chemistry and the Environment, International Union of Pure and Applied Chemistry
2019-	Member, Subcommittee on Chemical and Biophysical Processes in the Environment, Division VI, Chemistry and the Environment, International Union of Pure and Applied Chemistry
2009-	Advisory Committee on Crop Protection Chemistry, Division VI, Chemistry and the Environment, International Union of Pure and Applied Chemistry

National level

2021-2024	Board of Directors, Genome Prairie
2020-2023	Board of Directors, Verna J. Kirkness Education Foundation
2018-2021	NSERC Geosciences Evaluation Group (EG 1506)
2017-2020	Board of Directors, Canadian Centre for Women in Science, Engineering, Trades and Technology, Canadian Centre for Women in Science
2016	Member, Minister of Science, Canada's Fundamental Science Review
2015	Member, NSERC's Environmental and Agricultural Strategic Target Area Renewal Committee
2015-2016	Member, Canadian Agricultural Human Resource Council Advisory Group Supporting the Advancement of Women in Agriculture
2003-2015	Member, Advisory Committee for the development of the Indicator for Risk of Water Contamination by Pesticides (IROWC-Pest), Agriculture and Agri-Food Canada

Provincial

2011-2019	Ex-officio, Committee for Increasing the Participation of Women in Engineering, Engineers Geoscientists Manitoba
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2014-2016	Environment Canada and Manitoba Water Stewardship – State of Lake Winnipeg, Research Working Group, Lake Winnipeg Foundation
2015	Executive committee, Celebration of the International Day of the Girl – Women in Science and Engineering, Celebrations at the Manitoba Legislature Building
2002	Manitoba Soil Science Society, Executive Board member
2001	Manitoba Soil Science Society, President (First woman to do so since the inception of the Manitoba Soil Science Society in 1957)
2000	Manitoba Soil Science Society, Vice-President
1999	Manitoba Soil Science Society, Executive Board member
1998	Manitoba Soil Science Society, Executive Board member

EXTERNAL REVIEWER FOR ACADEMIC PROMOTIONS

2020	Applicant for the promotion from Associate to Full Professor, Lahore College for Women University, Pakistan.
2020	Applicant for being granted tenure, and for the promotion from Assistant to Associate Professor Lahore College for Women University, Pakistan.

WORKSHOPS OFFERED AS CONSULTANT

2013	FAO/IAEA Division of Nuclear Techniques in Food and agriculture, 5-day workshop on Modeling and Advanced GIS, Temuco, Chile, 5; 13 participants from 11 Latin American countries, Facilitator.
2010	FAO/IAEA Division of Nuclear Techniques in Food and agriculture, 5-day workshop on PRZM modeling, Vienna, Austria; 18 participants from 14 countries, Facilitator.
2010	FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, 1/2-day workshop on spatial assessments of pesticide sorption input parameters the use of radioisotopes techniques in advancing decision-making tools, Melbourne, Australia, July 2010; 18 participants from 12 countries, Facilitator.
2004	FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, Costa Rica, 10-day laboratory workshop for academic staff and students on using pesticide (14C) radioisotopes to improve agricultural science-policy analyses at the large scale, Facilitator.

ORGANIZATION OF CONFERENCES, CONFERENCE SESSIONS, WORKSHOPS, TOURS AND PANEL DISCUSSIONS

2020	Strengthening EDI policies to diversify the STEM sector, Canadian Science Policy Conference 2020
2019	IUPAC Global Women's Breakfast – University of Manitoba Participation, February
2019	2SLGBTQIA+ STEM Meet & Greet, September
2019	WinSETT Towards Gender Inclusive Workplaces: Retaining and Supporting Women in Academia: Creating Respectful and Inclusive Workplaces for Managers, July 11
2019	WinSETT Workshop - Networks, Mentors, and Sponsors, April 16
2019	WinSETT Workshop - Navigating Politics of Workplace, March 20
2019	An Open Discussion on Maternity Leave Panel at AWC West, March 11
2019	WinSETT Career paths, choices, and tips for leadership, Jan 30
2019	WinSETT Workshop - Negotiating for Success, Jan 30

2019	WinSETT Workshop – Emotional Intelligence, Jan 16
2018	WinSETT - Effective Communication. Nov 20
2018	An Inclusive Environment: What does it mean for a diverse population of Women in STEM? CAGS Conference Panel, Nov 8
2018	WinSETT - Becoming Leaders, Oct 17
2018	An Open Discussion on Maternity Leave - Panel at AWC East 2018, Oct 15
2018	Session Chair, Indigenous Health and Water Security. 68th Annual Conference of the Canadian Society of Microbiologists, Conference, June
2018	An Open Discussion on Maternity Leave - Panel at Monsanto, Jun 12
2018	“Above & Beyond”: Gender, Hidden Care-work, and Canadian NSE Faculty, May 31
2018	WinSETT Calgary Presentation Emotional Intelligence, May 10
2018	WinSETT Workshop – Emotional Intelligence, May 6
2018	WinSETT Workshop – Emotional Intelligence, April 6
2018	WinSETT Unconscious Bias, April 5
2018	WinSETT Workshop - Networks, Mentors, and Sponsors, April 5
2018	WinSETT Workshop - Networks, Mentors, and Sponsors, March 2
2018	WinSETT Workshop - Navigating Politics of Workplace, March 1
2018	IUPAC Global Women's Breakfast – University of Manitoba Participation, February
2018	WinSETT Workshop - Navigating Politics of Workplace, Jan 19
2018	WinSETT Workshop - Negotiating for Success, Jan 18
2017	Addressing Unconscious Bias – Senior Executive Retreat, Dec 5
2017	WinSETT Workshop - Negotiating for Success, Nov 24
2017	WinSETT Workshop – Effective Communication, Nov 23
2017	Innovation and Future of Canada summit: Balancing Inclusive Growth and Sustainability panel, Nov 16
2017	WinSETT Workshop – Effective Communication, Oct 27
2017	WinSETT Workshop - Becoming Leaders, Oct 26
2017	WinSETT Workshop - Becoming Leaders, Sep 22
2017	NSERC CREATE H2O and Water Rights conference, Winnipeg, Manitoba
2017	Manitoba Community for Women in Engineering, Science, Technology and Trades (MCWESTT) 2017 Conference, Winnipeg, Manitoba, May, 350 participants
2017	MCWESTT pre-conference workshop Effective Communication, May 4
2016	NSERC CREATE H2O and Water Rights conference, Winnipeg, Manitoba, June 1, 2015; 102 participants
2016	Women in Science and Engineering Tenure/Promotion Workshop, April 28
2015	Canadian Water Resources Association National Conference, Theme session: Water and Sanitation Security in First Nations Communities, Winnipeg, Manitoba, Canada, June 2-4, 2015; 40 participants, Chair.
2015	NSERC CREATE H2O and Water Rights conference, Winnipeg, Manitoba, June 1, 2015; 86 participants + 47 high school students for ½ day
2015	MCWESTT 2015 Conference, Winnipeg, Manitoba, May, 290 participants
2015	Women in the Science Cluster working luncheon: Meet the new Deans & develop an action plan, Winnipeg, May
2014	Women in Science and Engineering Networking Event, September 25
2014	NSERC CREATE H2O and Water Rights conference, Winnipeg, Manitoba, June 25-26, 2014; 85 participants
2014	Effective communications for women in science, engineering, technology, and trades, May 21
2014	Supporting Women Academics in their Career Paths and Research: What Academic Administrators Need to Know, Winnipeg, May 2
2013	Becoming Leaders Workshop: An Introduction to Leadership Skills and Strategies for women in science, engineering, technology, and trades (SETT), Winnipeg, December 11
2013	Work-Life Balance Workshop, Conference of the Canadian Society of Soil Science/Manitoba Soil Science Society/Canadian Society for Agricultural and Forest Meteorology, Winnipeg, Manitoba, July 24

2013	MCWESTT 2013 Conference, Winnipeg, Manitoba, May 10, 230 participants
2013	Central American Symposium: Community-based pest management in Central American agriculture, Nicaragua, February 13-15, 66 participants.
2012	Cherishing Water and Claiming Health Research Planning Symposium, The Pas, Manitoba, May 10-12, 2012; 46 participants
2012	Personal Development Plan Workshop for Women Academics in Agriculture, March 20
2011	Workshop: A round table discussion for academic and professional women working in agricultural sciences in Manitoba, December 6
2011	Central American Network Meeting, various locations Costa Rica, Nicaragua, Honduras
2010	Central American Network Meeting, Montelimar, Nicaragua
2009	Central American Network Meeting, Santa Cruz, Costa Rica
2007	Central American Network Meeting, La Ceiba, Honduras
2007	Central American Workshop on Participatory Qualitative Methodologies for Investigating Community Knowledge, Managua, Nicaragua
2005	Central American Network Meeting, San Jose, Costa Rica
2001	Annual Manitoba Soil Science Society Conference, Chair
2000	Annual Manitoba Soil Science Society Conference, Executive committee
2000	Agri-Food Post-Conference Tour hosted by the Manitoba Society of Soil Science <i>Farenhorst, A. and Fraser, W. 2000. Agricultural soil landscape units and land management in south central Manitoba. Agri-Food 2000 Post-Conference Tour Guide. Manitoba Society of Soil Science (MSSS), Winnipeg, MB. Guidebook, 42 p.</i>
1999	Annual Manitoba Soil Science Society Conference, Executive committee
1999	Manitoba Society of Soil Science Summer Tour. <i>Fraser, W., Farenhorst, A., and Cavers, C. 1999. Landscapes and ecology in the North West agricultural region of Manitoba. Manitoba Society of Soil Science Summer Tour 1999. MSSS, Winnipeg, MB. Guidebook, 34 p.</i>
1998	Annual Manitoba Soil Science Society Conference, Executive committee
1998	Manitoba Society of Soil Science Summer Tour. <i>Fraser, W., Farenhorst, A., and Cavers, C. 1998. Soils Quality and Production Agriculture. Manitoba Society of Soil Science Summer Tour 1998. MSSS, Winnipeg, MB. Guidebook, 34 p.</i>

PRESENTATIONS IN ACADEMIC WORKSHOPS ORGANIZED BY OTHERS

2021	University of Manitoba New Faculty Orientation: About the Office of Research Ethics and Compliance, August 30
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CONTRIBUTION TO JOURNALS AS REVIEWER

- Agricultural Water Management
- Canadian Journal of Soil Science
- Environmental Monitoring Assessment
- Environmental Science and Technology
- Geoderma
- Journal of Environmental Science and Health Part B
- Journal of Environmental Quality
- Pesticide Management Science
- Soil and Water Conservation
- Total Science Environment

MEMBERSHIPS

- Manitoba Institute of Agrologists (**Professional Agrologist**)
- International Union of Pure and Applied Chemistry
- Soil Science Society of America
- Senior Women Academic Administrators of Canada

UNIVERSITY COMMITTEE ACTIVITIES

University level	
2021-2026	Member, Advisory Board, Centre for Human Rights Research
2021	Ex Officio, Selection Committee for the Dr. John M. Bowman Memorial Winnipeg Rh Institute Foundation Award
2021-2026	Chair, Human Ethics Resource Committee
2021	Member, Search Committee for the AVP (Indigenous) Scholarship, Research and Curriculum
2021	Member, Selection Committee for the 2020 Dr. and Mrs. Ralph Campbell Outreach Award.
2019-	Member, Research Administration System (RAS) Advisory Committee
2019-	Member, Committee on Animal Care
2019-2020	Co-Chair Environmental Scan and member, President's EDI Task Force
2019	Chair, University's Responsible Conduct of Research (RCR) Policy
2018-2019	Member, Joint Committee on Sex Based Salary Differentials - Analysis into possible sex-based salary inequities of faculty members at the University of Manitoba
2015-2019	Member, University of Manitoba Senate Committee on Instruction and Evaluation
2013-2019	Member, University of Manitoba Senate Committee on Honorary Degrees
2012-2019	Member, University of Manitoba Senate
2018	Member, Graduate Program Review Committee for the Department of Environment & Geography, Clayton H. Riddell Faculty of Environment, Earth, and Resources, on behalf of the Faculty of Graduate Studies
2018	Member, University's Responsible Conduct of Research (RCR) Policy
2013-2018	Member, Advisory Board, Centre for Human Rights Research
2015-2016	Member, Review Committee for Undergraduate Research & Creative Works
2005-2016	Member, Canadian Foundation of Innovation (CFI) review board
2014-2015	Member, Presidential Strategic Planning Committee for the University of Manitoba Strategic Plan 2015-2020 <ul style="list-style-type: none">• Theme Sustainable Water Management• Theme Indigenous Research
2014-2015	Member, UMFA Status of Women Committee
2013	Member, University of Manitoba Selection Committee for the MacJannet Prize, member
2001-2005	University Research Grants Program Committee
2003-2004	Member, Advisory Committee to the Provost: Access to Exceptional Education, member
2002-2004	Member, UMFA Status of Women Committee
1998-2002	Member, Faculty Council of Graduate Studies
Faculty level	
2021-	Member, Rady Faculty of Health Sciences Research Advisory Committee
2018-2021	Chair, Faculty of Agriculture and Food Sciences Seminar Series
2018-2021	Chair, Research Committee, Faculty of Agricultural and Food Sciences
2018-2021	Chair, Endowment Committee, Faculty of Agricultural and Food Sciences
2018-2021	Member, Centre for Functional Foods and Nutraceuticals Governance Committee, Faculty of Agricultural and Food Sciences
2018-2019	Chair, Search Committee CRC Tier 2 Food Protein Processing, Faculty of Agricultural and Food Sciences

2010-2018	Member, Tenure and Promotion Nucleus Committee, Faculty of Agricultural and Food Sciences
2009-2014	Member, Agroecology Program Committee, Faculty of Agricultural and Food Sciences
2013	Member, Search committee for the Department Head of Geography and Environmental Sciences, Clayton H. Riddell Faculty of Environment, Earth, and Resources
2009-2010	Member, Research Committee, Faculty of Agricultural and Food Sciences
2003-2010	Member, Agronomy Program Committee, Faculty of Agricultural and Food Sciences
2009	Member, Search Committee for the Department Head of Plant Sciences, Faculty of Agricultural and Food Sciences
2005	Member, Search Committee for the Department Head of Geography and Environmental Sciences, Clayton H. Riddell Faculty of Environment, Earth, and Resources
2004	Member, Search Committee for the Department Head of Geological Sciences, Clayton H. Riddell Faculty of Environment, Earth, and Resources, member
2004	Member, Search Committee for the Dean of the Clayton H. Riddell Faculty of Environment, Earth, and Resources
2003-2004	Member, Library Committee, Faculty of Agricultural and Food Sciences
2002	Member, Curriculum Committee to develop a Master of Environment, Clayton H. Riddell Faculty of Environment, Earth, and Resources
2000	Member, Curriculum Committee to develop a Toxicology Undergraduate Depth Package, Clayton H. Riddell Faculty of Environment, Earth, and Resources
1998-2002	Member, Graduate Studies Committee, Faculty of Agricultural and Food Sciences
1998-2002	Member, Diploma Council Committee, Faculty of Agricultural and Food Sciences
Department level	
2021	Chair, Search Committee for Assistant Professor (Soil Physics) in Department of Soil Science, Faculty of Agricultural and Food Sciences
2020	Member, Search Committee for Assistant Professor (Soil Science) in Department of Soil Science, Faculty of Agricultural and Food Sciences
2013-2014	Member, Soil Science Department Graduate Studies Committee, Faculty of Agricultural and Food Sciences
2009	Member, Search Committee for an Administrative assistant in Department of Soil Science, Faculty of Agricultural and Food Sciences
2004	Member, Search Committee for Assistant Professor, Department of Geography and Environmental Sciences, Faculty of Environment, Earth, and Resources
1998-2002	Chair, Soil Science Department Graduate Studies Committee, Faculty of Agricultural and Food Sciences
2000-2004	Member, Health and Safety Committee, Department of Soil Science, Faculty of Agricultural and Food Sciences
2002	Member, Search Committee for Technician in Department of Soil Science, Faculty of Agricultural and Food Sciences
2002	Member, Search Committee for Assistant Professor in Department of Soil Science, Faculty of Agricultural and Food Sciences
2000	Member, Search Committee for Assistant Professor in Department of Soil Science, Faculty of Agricultural and Food Sciences
1999	Member, Search Committee for Assistant Professor (1) in Department of Soil Science, Faculty of Agricultural and Food Sciences
1999	Member, Search Committee for Assistant Professor (2) in Department of Soil Science, Faculty of Agricultural and Food Sciences
1998	Member, Search Committee for Technician in Department of Soil Science, Faculty of Agricultural and Food Sciences

TASK FORCE AND RECOMMENDATION REPORTS TO SENIOR ADMINISTRATORS

- Hiebert-Murphy, D. + 17 others. 2020 President's Task Force on Equity, Diversity, and Inclusion. Submitted to Michael Benarroch, President, University of Manitoba. 27 pp + Appendices.
- Dodd, J., Prentice, S., Peter, T., Farenhorst A., Chen, T., Muir, D. 2019. Report of the Joint Committee on Gender-Based Salary Differentials. Submitted to David Barnard, President, University of Manitoba and Janet Morrill, President, UMFA. 5 pp. + Appendices.
- Farenhorst, A., Steggle, M, Varnhagen, C, Wuetherick, B. 2016. Taking Our Place as Leaders in Undergraduate Student Engagement: Report of the Undergraduate Research and Creative Works Review Committee. Submitted to Susan Gottheil, Vice-Provost (Students), 19 pp.
- Watmough, S., Marshall, S., Farenhorst, A. 2018. Review Committee Recommendations, Graduate Program review University of Manitoba Department of Environment and Geography. Submitted to Todd Mondor, Vice-Provost (Graduate Education) and Dean of Graduate Studies. 9 pp.

EXAMPLES OF PROFESSIONAL DEVELOPMENT ACTIVITIES

- 2021 Academic Administrators workshop: The Academic Hiring Process
- 2021 Summer Institute on Literacy in Indigenous Content for UM Faculty and Staff
- 2021 The Role of Administrators in Indigenous UM and Equity, Diversity and Inclusion
- 2021 Ensuring Excellence and Integrity in Research
- 2020 Promoting Excellence Among Faculty and Staff
- 2020 Creating a Positive Culture in Your Unit
- 2020 The Role of Administrators in the Budgeting Process
- 2019 Working with External Relations
- 2019 Leading in Academia
- 2019 Civility
- 2019 RWLE and Managing Conflict
- 2019 Senior University Administrators Course (SUAC)
- 2019 New Academic Administrators Orientation
- 2019 Ten Ways Organizations Get in Their Own Way on Indigenous Achievement, Reconciliation, Diversity, Inclusion, and Anti-Racism
- 2018 EDI 2.0
- 2018 Understanding the New Budget Model
- 2015 Health Awareness and Actions for Academic Administrators
- 2013 Workshop for Chairs & Members of Tenure and Promotion Committees
- 2012 LQBTT Alley training
- 2012 Senate Orientation
- 2012 Media workshop for Women
- 2010 Dealing with Disruptive Students
- 2010 A Primer on Governance
- 2010 Developing University Research: Roles, Strategies and Support
- 2009 Doing Performance Evaluations
- 2009 Chairs and Members of Tenure & Promotion Committees