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1. SCHOLARLY INTERESTS

My research interests cover a wide range of biophysical sciences related to resource and environmental management, including anthropogenic impacts on the environment. **These research interests closely reflect my professional experience and Dalhousie's priority research areas in oceans, energy and the environment** including: Monitoring, management, and mitigation of plastic and microplastic pollution; Monitoring, management, and mitigation of industrial contaminants on the natural world; Remediation and reclamation of contaminated sites; Ecological risk assessment (ERA) of aquatic and terrestrial ecosystems; Air pollution impacts on ecological and human health; Environmental effects monitoring (EEM); Environmental impact assessment (EIA); and Management of natural resources .

2. EDUCATION

2003-2006 NSERC Post-Doctoral Research Fellowship

Dalhousie University, Department of Oceanography working with Dr. Jon Grant and Dr. Paul Hill

Research topic 1: *Canadian Arctic Shelves Exchange Study (CASES)* funded by Natural Sciences and Engineering Research Council of Canada (NSERC) studying river-ocean coupling in the Mackenzie River Delta and Beaufort Sea (6 papers)

Research topic 2: *Aquaculture site planning in Guysborough County* funded by Atlantic Canada Opportunities Agency (ACOA) and Canada's Research Network in Aquaculture (AquaNet) (4 papers)

1998 - 2003 Doctor of Philosophy (PhD) Biology

University of Nottingham, UK

Thesis: *Pollution in the Pechora Basin, North-Eastern European Russian Arctic*

Doctoral research that required a broad understanding of environmental pollution issues and contamination in the Russian Arctic resulting from coal, oil and gas industrial activities (11 papers)

1990-1993 Master of Philosophy (MPhil) Biology

University of Essex, UK

Thesis: *Benthic Microbial Ecology in Antarctic Coastal Sediments*

Annual budgets of carbon and nutrient cycling in Antarctic marine sediments were studied during a 15-month continuous field study in the Antarctic (6 papers)

1986-1989 Bachelor of Science (BSc Honours) Biology

University of Portsmouth, UK

Thesis: *Aquaculture-based growth study of thick-lipped grey mullet using different diet treatments* (1 paper)

3. ACADEMIC AND PROFESSIONAL EXPERIENCE

2020- Associate Professor (Tenured), Dalhousie University, Canada

2019-2020 Assistant Professor (Tenure Track), Dalhousie University, Canada

2016-2019 Assistant Professor (Probationary Tenure Track), Dalhousie University, Canada

2014-2015 Assistant Professor (Limited Term Appointment), Dalhousie University, Canada

2011-2013 Sessional Assistant Professor, Dalhousie University, Canada

2007-2014 Associate / Senior Environmental Scientist, Dillon Consulting Limited, Canada

2006-2007 Environmental Specialist (seconded), Public Works and Government Services Canada

- 2006-2007** **Senior Scientist**, Jacques Whitford Environmental Limited, Canada
2003-2006 **NSERC Post-Doctoral Research Fellow**, Department of Oceanography, Dalhousie University, Canada
1998-2003 **Research Assistant**, Department of Biology, University of Nottingham, UK
1996-1997 **Research Officer**, Department of Biology, University of Essex, UK
1993-1996 **Zoological Assistant (Seal Ecosystem Sciences)**, British Antarctic Survey, UK
1990-1993 **Research Officer**, University of Essex and British Antarctic Survey, UK

4. AWARDS AND HONOURS

- 2023** Paper published in *TrAC Trends in Analytical Chemistry*, 'Current trends of unsustainable plastic production and micro (nano) plastic pollution', was selected for the front cover of the March issue by the Editor-in-Chief (<https://www.sciencedirect.com/journal/trac-trends-in-analytical-chemistry/vol/160/suppl/C>). Paper was co-authored with former MREM student Lexi Fequet
- **Walker, T.R., Fequet, L.** (2023). Current trends of unsustainable plastic production and micro (nano) plastic pollution. *TrAC Trends in Analytical Chemistry*, 160, 116984. <https://www.sciencedirect.com/science/article/pii/S0165993623000717>
- 2023** Paper published in the *Canadian Geotechnical Journal*, 'Evaluating the movement of dissolved porewater species through a marine sediment 51 years after establishment of a pulp and paper effluent stabilization basin', was selected as the winner of the 2022 Donald Stanley Award by the Canadian Society for Civil Engineering. The Donald Stanley Award is for the best paper in environmental engineering.
- Lake, C.B., Song, X., Spooner, I.S., Tackley, H., **Walker, T.R.**, Jamieson, R.C. (2022). Evaluating the movement of dissolved porewater species through a marine sediment 51 years after establishment of a pulp and paper effluent stabilization basin. *Canadian Geotechnical Journal*, 59(11), 1901-1918. DOI: <https://doi.org/10.1139/cgj-2021-0563>
- 2023** Research Impact Award winner, Faculty of Management, Dalhousie University (2021/22)
2021 Research Impact Award nominee, Faculty of Management, Dalhousie University (2020/21)
2019 Winner of the Teaching Excellence Award, Faculty of Management, Dalhousie University
2018 Winner of the inaugural Dalhousie President's Excellence Research Award, Emerging Scholar
2018 Paper published in *Marine Pollution Bulletin*, 'International policies to reduce plastic marine pollution from single-use plastics (plastic bags and microbeads): A review' was nominated for an Atlas Award and made permanently open access by Elsevier. Each month, from all published research across Elsevier's 2,500 journals hosted on ScienceDirect, a small number of articles are nominated for the Atlas award. The Atlas Award tries to identify those articles that with limited resources, when implemented, could impact society around the globe, research for a better world. Co-authored with former MREM student, Dirk Xanthos
- Xanthos, D., **Walker, T.R.** (2017) International policies to reduce plastic marine pollution from single-use plastics (plastic bags and microbeads): A review. *Marine Pollution Bulletin*, 118(1-2), 17-26. <https://www.sciencedirect.com/science/article/pii/S0025326X17301650>
- 2017** Teaching Excellence Award nominee, Faculty of Management, Dalhousie University
2017 Rising Research Star Award (2016/17) winner, Faculty of Management, Dalhousie University
2016 Rising Research Star Award (2015/16) inner, Faculty of Management, Dalhousie University
2016 Paper published in *Marine Policy*, 'A Canadian policy framework to mitigate plastic marine pollution' was included in a special Research Selection for World Oceans Day on 8th June 2016 and made open access until September 2017 by Elsevier (<https://www.elsevier.com/life-sciences/aquatic-sciences/research-selection-world-oceans-day-2016>). Paper was co-authored with former students Shauna Pettipas and Meaghan Bernier

- Pettipas, S., Bernier, M., Walker, T.R. (2016). A Canadian policy framework to mitigate plastic marine pollution. *Marine Policy*, 68, 117-122.
<http://www.sciencedirect.com/science/article/pii/S0308597X16300665>

5. SCHOLARLY CONTRIBUTIONS

5.1 Refereed Journal Publications

Underline - Denotes training of highly qualified personnel / mentoring of graduate students

2023

1. Villarrubia-Gómez, P., Almroth, B.C., Syberg, K., Dey, T., Bergmann, M., Brander, S.M., Cardenas, A.M., Conkle, J., Karlsson, T., Tangri, N., Gündoğdu, S., **Walker, T.R.**, Eriksen, M., Wang, M., Altman, R., Krieger, A., Cornell, S.E. (2023). Technology cannot fix this: To stay within planetary boundaries, plastic growth must be tackled. *EarthArXiv*. <https://eartharxiv.org/repository/view/5369/>
2. McIntyre, J., Duncan, K., Fulton, L., Smith, A., Goodman, A.J., Brown, C.J., Walker, T.R. (2023). Environmental and economic impacts of retrieved abandoned, lost, and discarded fishing gear in Southwest Nova Scotia, Canada. *Marine Pollution Bulletin*, 192, 115013. DOI: <https://doi.org/10.1016/j.marpolbul.2023.115013>
3. Diggle, A., Walker, T.R., Adams, M. (2023). Examining potential business impacts from the implementation of an extended producer responsibility program for printed paper and packaging waste in Nova Scotia, Canada. *Circular Economy*, 100039. DOI: <https://doi.org/10.1016/j.cec.2023.100039>
4. Carrier, A.J., Carve, M., Shimeta, J., **Walker, T.R.**, Zhang, X., Oakes, K.D., Jha, K.C., Charlton, T., Stenzel, M.H. (2023). Transitioning Towards Environmentally Benign Marine Antifouling Coatings. *Frontiers in Marine Science Marine Pollution*, 10, 1175270. DOI: 10.3389/fmars.2023.1175270
5. Giacosa, G., Rainham, D.G., Walker, T.R. (2023). Identifying Sources of Industrial Emissions of Fine Particulate Matter (PM2.5) in Nova Scotia, Canada. *Atmospheric Pollution Research*. 101757. DOI: <https://doi.org/10.1016/j.apr.2023.101757>
6. **Walker, T.R., Fequet, L.** (2023). Current trends of unsustainable plastic production and micro (nano) plastic pollution. *TrAC Trends in Analytical Chemistry*, 160, 116984. DOI: <https://www.sciencedirect.com/science/article/pii/S0165993623000717>
Selected for the front cover of the March issue by the Editor-in-Chief (<https://www.sciencedirect.com/journal/trac-trends-in-analytical-chemistry/vol/160/suppl/C>).
7. Maltby, E.A., Oakes, K.D., Walker, T.R., Williams, J., Wyeth, R.C. (2023). Baseline monitoring of contaminant concentrations in American lobster (*Homarus americanus*) tissues from coastal Northumberland Strait, Nova Scotia, Canada. *Marine Pollution Bulletin*, 189, 114794. DOI: <https://doi.org/10.1016/j.marpolbul.2023.114794>
8. MacDonald, A., Allen, D., Williams, L., Flowers, P., Walker, T.R. (2023). People, plastic, and behaviour change—a comment on drivers of plastic pollution, barriers to change and targeted behaviour change interventions. *Environmental Science: Advances*. DOI: <https://doi.org/10.1039/D2VA00248E>
9. Rector, M.E., Filgueira, R., Bailey, M., Walker, T.R., Grant, J. (2023). Sustainability outcomes of aquaculture eco-certification: challenges and opportunities. *Reviews in Aquaculture*, 15(2), 840-852. DOI: 10.1111/raq.12763
10. Rakib, M.R.J., Al Nahian, S., Madadi, R., Haider, S.M.B., De-la-Torre, G.E., **Walker, T.R.**, Jonathan, M.P., Cowger, W., Khandaker, M.U., Idris, A.M., (2023). Spatiotemporal trends and characteristics of microplastic contamination in a large river-dominated estuary. *Environmental Science: Processes & Impacts*. DOI: 10.1039/D3EM00014A

11. **Walker, T.R.** (2023). The Maldives should not become the world's garbage dump by importing plastic waste. *Marine Pollution Bulletin*, 189, 114749. DOI: <https://doi.org/10.1016/j.marpolbul.2023.114749>
12. Liu, Z., Ashton, W.S., Adams, M., Wang, Q., Cote, R.P., **Walker, T.R.**, Sun, L., Lowitt, P. (2023). Diversity in financing and implementation pathways for industrial symbiosis across the globe. *Environment, Development and Sustainability*, 25, 960–978. DOI: <https://link.springer.com/article/10.1007/s10668-021-02086-5>
13. **Walker, T.R.** (2023). The tropics should not become the world's plastic pollution problem. *Journal of Tropical Futures*. DOI: 10.1177/27538931231165273. This invited provocative piece on the impact of plastic pollution in the tropics was the first published article in *Journal of Tropical Futures* published by SAGE Publishers <https://journals.sagepub.com/doi/10.1177/27538931231165273> It was widely publicized by the journal and was accompanied by a Podcast for which I was interviewed.
14. Kazemi Moghaddam, V., **Walker, T.R.**, Pakdel, M., Ahmadinejad, P., Mohammadi, A.A. (2023). Waste Workers and Pickers: Neglected Highrisk Groups in Developing Countries During the COVID-19 Pandemic. *Journal of Health Sciences & Surveillance System*, 11(1 (Supplement)), 252-259. DOI: <https://doi.org/10.30476/jhsss.2021.93040.1410>
15. De-la-Torre, G.E., Romero Arribasplata, M.B., Lucas Roman, V.A., Póvoa, A.A., **Walker, T.R.** (2023). Marine litter colonization: Methodological challenges and recommendations. *Frontiers in Marine Science*, 10, 197. 10.3389/fmars.2023.1070575
16. Green, D.S., Almroth, B.C., Altman, R., Bergmann, M., Gündoğdu, S., Warriar, A.K., Boots, B., **Walker, T.R.**, Krieger, A., Syberg, K. (2023). Time to kick the butt of the most common litter item in the world: Ban cigarette filters. *Science of The Total Environment*, 865(3), 161256. DOI: <https://doi.org/10.1016/j.scitotenv.2022.161256>
17. Rakib, M., Jahan, R., Sarker, A., Ram, K., Uddin, M., **Walker, T.R.**, Chowdhury, T., Uddin, J., Khandaker, M.U., Rahman, M.M. and Idris, A.M. (2023). Microplastic Toxicity in Aquatic Organisms and Aquatic Ecosystems: a Review. *Water, Air, & Soil Pollution*, 234, 52. <https://doi.org/10.1007/s11270-023-06062-9>
18. **Ragan, M., Walker, T.R.**, Zurba, M. (2023). A pilot study of small craft harbors in Nova Scotia, Canada: Examining livelihoods associated with these facilities. *Coastal Management*, 51(1), 42-64. DOI: <https://doi.org/10.1080/08920753.2023.2148851>
19. **Walker, T.R.** (2023). Book review: Erica Cirino, Thicker Than Water: The Quest for Solutions to the Plastic Crisis. *Ocean Yearbook*, 37.

2022

20. Silva, A.L.P., **Walker, T.R.** (2022). COVID-19 and the environment: Challenges and recent advances in sustainable mitigative measures. *Journal of Hazardous Materials Advances*. <https://www.sciencedirect.com/journal/journal-of-hazardous-materials-advances/special-issue/10D0SW5MFH2>
21. Liu, Z., Xu, Y., Adams, M., Liu, W., **Walker, T.R.**, Domenech, T., Bleischwitz, R., Geng, Y. (2022). Comparative analysis of the contribution of municipal waste management policies to GHG reductions in China. *Waste Management & Research*, p.0734242X221135259. DOI: <https://doi.org/10.1177/0734242X221135259>
22. Wu, H., Wang, H., **Walker, T.R.**, Wang, X., Wang, Y., Sun, L. (2022). In-situ co-remediation of PAHs contaminated agricultural soil using blood meal and celery: An agricultural greenhouse field study. *Soil and Sediment Contamination: An International Journal*, 1-15. DOI: <https://doi.org/10.1080/15320383.2022.2145268>
23. Dey, T., Trasande, L., Altman, R., Wang, Z., Krieger, A., Bergmann, M., Allen, D., Allen, S., **Walker, T.R.**, Wagner, M., Syberg, K., Brander, S.M., Carney Almroth, B. (2022). Global plastic treaty must address chemicals. *Science*, 378(6622), 841-842. DOI: 10.1126/science.adf5410

24. De-la-Torre, G.E., Valderrama-Herrera, M., Reyes, D., **Walker, T.R.** (2022). Can oviposition on marine litter pose a threat to marine fishes? *Marine Pollution Bulletin*, 185(12), 114375. DOI: 10.1016/j.marpolbul.2022.114375
25. **Ammendolia, J., Walker, T.R.** (2022). Global plastics treaty must be strict and binding. *Nature*, 611(7935), 236-236. DOI: <https://doi.org/10.1038/d41586-022-03581-z>
26. Wu, H., Wang, H., **Walker, T.R.**, Wang, X., Wang, Y., Sun, L. (2022). *In-situ* co-remediation of PAHs contaminated agricultural soil using blood meal and celery: An agricultural greenhouse field study. *Soil and Sediment Contamination: An International Journal*, 1-15. DOI: <https://doi.org/10.1080/15320383.2022.2145268>
27. **Walker, T.R.**, Wang, L., Horton, A., Xu, E.G. (2022). Micro(nano) plastic toxicity and health effects: Special issue guest editorial. *Environment International*, 170(12), 107626. DOI: <https://doi.org/10.1016/j.envint.2022.107626>
28. Gundogdu, S., Carney Almroth, B., Coffin, S., Gwinnett, C. (2022). Editorial: Alternatives to petroleum-based plastics as a potential solution to the global plastic pollution crisis in marine environments: Do they provide sustainable solutions? *Frontiers in Marine Science Marine Pollution*, 9, 1066113. DOI: 10.3389/fmars.2022.1066113
29. **Ammendolia, J., Walker, T.R.** (2022). US seeks weaker global plastics treaty. *SSRN*, 4248247. DOI: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4248247
30. Amon, D., Metaxas, A., Stentiford, G., Escovar-Fadul, X., **Walker, T.R.**, Diana, Z., Karathanasi, F., Voyer, M. and Hemery, L., 2022. Blue economy for a sustainable future. *One Earth*, 5(9), 960-963. DOI: <https://doi.org/10.1016/j.oneear.2022.08.017>
31. **Adesida, A.A.**, Carrier, A.J., Adams, M., **Walker, T.R.**, Oakes, K., Nganou, C., Ehsan, M.F., Zhang, X. (2022). Simultaneous Degradation of Persistent Organic Pollutants and Heavy Metal Removal via an Electrochemical Filtration System: A Case Study on a Pulp Mill Wastewater Effluent. *Case Studies in Chemical and Environmental Engineering*, 6, 100258. DOI: <https://doi.org/10.1016/j.csee.2022.100258>
32. Al Nahian, S., Rakib, M.R J., Haider, S.M.B., Kumar, R., **Walker, T.R.**, Khandaker, M.U., Idris, A.M. (2022). Baseline marine litter abundance and distribution on Saint Martin Island, Bay of Bengal, Bangladesh. *Marine Pollution Bulletin*, 183, 114091. DOI: <https://doi.org/10.1016/j.marpolbul.2022.114091>
33. **Giacosa, G., Walker, T.R.** (2022). A policy perspective on Nova Scotia's plans to reduce dependency on fossil fuels for electricity generation and improve air quality. *Cleaner Production Letters*, 3, 100017. DOI: <https://doi.org/10.1016/j.clpl.2022.100017>
34. Patra, I., Huy, D.T.N., Alsaikhan, F., Opulencia, M.J.C., Tuan, P.V., Nurmatova, K.C., Majdi, A., Shoukat, S., Yasin, G., Margiana, R., **Walker, T.R.**, Karbalaei, S. (2022). Toxic effects on enzymatic activity, gene expression and histopathological biomarkers in organisms exposed to microplastics and nanoplastics: A review. *Environmental Sciences Europe*, 34, 80. DOI: <https://doi.org/10.1186/s12302-022-00652-w>
35. Hanachi, P., Gharari, Z., Sadeghinia, H., **Walker, T.R.** (2022). Cichorium intybus bio-callus synthesized silver nanoparticles: a promising antioxidant, antibacterial and anticancer compound. *International Journal of Pharmaceutics*, 625, 122062. DOI: <https://doi.org/10.1016/j.ijpharm.2022.122062>
36. **Giacosa, G.**, Barnett, C., Rainham, D.G., **Walker, T.R.** (2022). Reply to Berthiaume et al. Comment on "Giacosa et al. Characterization of Annual Air Emissions Reported by Pulp and Paper Mills in Atlantic Canada. *Pollutants* 2022, 2, 135–155". *Pollutants*, 2(3), 330-332. DOI: <https://doi.org/10.3390/pollutants2030022>
37. Gharari, Z., Hanachi, P., **Walker, T.R.** (2022). Green synthesized Ag-nanoparticles using *Scutellaria multicaulis* stem extract and their selective cytotoxicity against breast cancer. *Analytical Biochemistry*, 653, 114786. DOI: <https://doi.org/10.1016/j.ab.2022.114786>

38. **Walker, T.R.** (2022). Effectiveness of the National Pollutant Release Inventory as a Policy Tool to Curb Atmospheric Industrial Emissions in Canada. *Pollutants*, 2(3), 289-305. DOI: <https://doi.org/10.3390/pollutants2030019>
39. **Walker, T.R.** (2022). Communicating threats and potential opportunities to reduce microplastic pollution with key stakeholders. *Microplastics*, 1(2), 319-321. DOI: <https://doi.org/10.3390/microplastics1020023>
40. Hanachi, P., Gharari, Z., Sadeghinia, H., **Walker, T.R.** (2022). Synthesis of Bioactive Silver Nanoparticles with Eco-Friendly Processes Using *Heracleum persicum* Stem Extract and Evaluation of Their Antioxidant, Antibacterial, Anticancer and Apoptotic Potential. *Journal of Molecular Structure*. 1265(10), 133325. DOI: <https://doi.org/10.1016/j.molstruc.2022.133325>
41. Wang, H., Chang, H., **Walker, T.R.**, Wang, Y., Wu, H., Wang, X., Qing, L. (2022). Characterization, source apportionment and risk assessment of polycyclic aromatic hydrocarbons (PAHs) in urban soils from 23 cities in China. *Environmental Science and Pollution Research*. DOI: <https://doi.org/10.1007/s11356-022-21025-z>
42. Adib, D., Mafigholami, R., Tabeshkia, H., **Walker, T.R.** (2022). Optimization of polypropylene microplastics removal using conventional coagulants in drinking water treatment plants via response surface methodology. *Journal of Environmental Health Science and Engineering*, 20, 565–577. DOI: <https://doi.org/10.1007/s40201-022-00803-4>
43. Bergmann, M., Almroth, B.C., Brander, S.M., Dey, T., Green, D.S., Gundogdu, S., Krieger, A., Wagner, M., **Walker, T.R.** (2022). A global plastic treaty must cap production. *Science*, 376(6592), 469-470. DOI: <https://dx.doi.org/10.1126/science.abq0082>
44. Lake, C.B., Song, X., Spooner, I.S., Tackley, H., **Walker, T.R.**, Jamieson, R.C. (2022). Evaluating the movement of dissolved porewater species through a marine sediment 51 years after establishment of a pulp and paper effluent stabilization basin. *Canadian Geotechnical Journal*, 59(11), 1901-1918. DOI: <https://doi.org/10.1139/cgj-2021-0563>
Paper was selected as the winner of the 2022 Donald Stanley Award by the Canadian Society for Civil Engineering. The Donald Stanley Award is for the best paper in environmental engineering.
45. Golshani, R., Zafarani, G. G., Rebezov, M., Karbalaeei, S., **Walker, T.R.** (2022). Assessment of Organophosphorus Pesticide Residues in Water and Sediment Collected from the Southern Caspian Sea. *Applied Environmental Research*, 44(2), 18-31. <https://doi.org/10.35762/AER.2022.44.2.2>
46. Mora, M., **Walker, T.R.**, Willis, R. (2022). Multiple contaminant ecological risk evaluation in small craft harbour sediments in Nova Scotia, Canada. *Science of the Total Environment*, 834(8), 155266. DOI: <https://doi.org/10.1016/j.scitotenv.2022.155266>
47. Giacosa, G., Barnett, C., Rainham, D.G., **Walker, T.R.** (2022). Characterization of Annual Air Emissions Reported by Pulp and Paper Mills in Atlantic Canada. *Pollutants*, 2(2), 135-155. DOI: <https://doi.org/10.3390/pollutants2020011>
48. Mora, M., **Walker, T.R.**, Willis, R. (2022). Spatiotemporal characterization of petroleum hydrocarbons and polychlorinated biphenyls in small craft harbour sediments in Nova Scotia, Canada. *Marine Pollution Bulletin*, 177(4), 113524. DOI: <https://doi.org/10.1016/j.marpolbul.2022.113524>
49. Hanachi, P., Khoshnamvand, M., **Walker, T.R.**, Hamidian, A.H. (2022). Nano-sized polystyrene plastics toxicity to microalgae *Chlorella vulgaris*: Toxicity mitigation using humic acid. *Aquatic Toxicology*, 245, 106123. DOI: <https://doi.org/10.1016/j.aquatox.2022.106123>
50. Baxter, L., Lucas, Z., **Walker, T.R.** (2022). Evaluating Canada's single-use plastic mitigation policies via brand audit and beach cleanup data to reduce plastic pollution. *Marine Pollution Bulletin*, 176(3), 113460. DOI: <https://doi.org/10.1016/j.marpolbul.2022.113460>
51. **Walker, T.R.** (2022). Calling for a decision to launch negotiations on a new global agreement on plastic pollution at UNEA 5.2. *Marine Pollution Bulletin*, 176(3), 113447. DOI: <https://doi.org/10.1016/j.marpolbul.2022.113447>

52. **Molloy, S., Medeiros, A., Walker, T.R., Saunders, S.** (2022). Public perceptions of legislative action on reducing plastic pollution: A case study of Atlantic Canada. *Sustainability*, 14(3), 1852. DOI: <https://doi.org/10.3390/su14031852>
53. **Molloy, S., Varkey, P., Walker, T.R.** (2022). Opportunities for single-use plastic reduction in the food service sector during COVID-19. *Sustainable Production and Consumption*, 30(3), 1082-1094. DOI: <https://doi.org/10.1016/j.spc.2022.01.023>
54. **Ammendolia, J., Walker, T.R.** (2022). Citizen science: A way forward in tackling the plastic pollution crisis during and beyond the COVID-19 pandemic. *Science of the Total Environment*, 805, 149957. DOI: <https://doi.org/10.1016/j.scitotenv.2021.149957>
55. **Diggle, A., Walker, T.R.** (2022). Environmental and Economic Impacts of Mismanaged Plastics and Measures for Mitigation. *Environments*, 9(2), 15. DOI: <https://doi.org/10.3390/environments9020015>
56. **Allen, S., Allen, D., Karbalaei, S., Maselli, V., Walker, T.R.** (2022). Micro (nano) plastics sources, fate, and effects: What we know after ten years of research. *Journal of Hazardous Materials Advances*, 6, 100057.
57. **Music, J., Walker, T.R., Charlebois, S.** (2022). Comment on the food industry's pandemic packaging dilemma. *Frontiers in Sustainability*, 3, 812608. DOI: <https://www.frontiersin.org/articles/10.3389/frsus.2022.812608/full>
58. **Zafarani, G.G., Karbalaei, S., Golshani, R., Pustokhina, I., Walker, T.R.** (2022). Baseline occurrence, distribution and sources of PAHs, TPH, and OCPs in surface sediments in Gorgan Bay, Iran. *Marine Pollution Bulletin*, 175(2), 113346. DOI: <https://doi.org/10.1016/j.marpolbul.2022.113346>
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5.2 Book Chapters

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2. McGuinty, E., **Walker**, T.R. (2023). Solutions, Approaches and Mitigation Strategies for Plastic Waste Management. In: *Plastic Pollution in the Global Oceans*. (Ed.) Horton, A., World Scientific Press, 375-398. DOI: https://doi.org/10.1142/9789811259111_0013
3. **Walker**, T.R., McGuinty, E. (2023). Chapter 49. Plastics. In: *Palgrave Global Handbook of Sustainability*. (Ed.) Brinkman, B., Palgrave Macmillan, Springer. DOI: https://doi.org/10.1007/978-3-030-38948-2_55-1
4. van Leeuwen, J., **Walker**, T.R., Vince, J. (2022). 27 Plastic pollution: The challenges of uncertainty and multiplicity in global marine governance. In: *Routledge Handbook of Marine Governance and Global Environmental Change*. (Ed.) Harris, P., Routledge, Taylor and Francis. DOI: 10.4324/9781315149745-27.
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5.3 Book/Monograph

1. MacKinnon, A.J., Duinker, P.N., **Walker**, T.R. (2018) *The Application of Science in Environmental Impact Assessment*. Routledge. pp. 142. www.routledge.com/9780815387299.

5.4 Publications in Preparation

1. Typically have between 10 to 15 manuscripts in preparation in addition to other manuscripts in revision.

5.5 Theses

1. **Walker, T.R.** (2003) *Pollution in the Pechora Basin, North-Eastern European Russia*. Unpublished Ph.D. Thesis, Environmental Studies, University of Nottingham, UK. pp. 181.
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3. **Walker, T.R.** (1989) *The Growth of Crenimugil labrosus Using Different Diet Treatments*. Unpublished B.Sc. (Hons) Thesis, Biology, University of Portsmouth, UK. pp. 60.

5.6 Selected Environmental Management Reports

1. Spooner, I.S., **Walker, T.R.** (2022). PCDD/F and metal sediment concentrations and distribution in areas covered by floating mats in the North and South Wetlands at Boat Harbour, NS. April 5, 2022. Report prepared for Nova Scotia Lands Inc., 31 p.
2. Molloy, S., Medeiros, A., **Walker, T.R.**, Saunders, S. (2022). Public Perceptions of Legislative Action on Reducing Plastic Pollution: A Case Study of Atlantic Canada. *Preprints*, 2022010192. DOI: <https://www.preprints.org/manuscript/202201.0192/v1>
3. **Walker, T.R.** (2021). Assessment of Microplastic Impacts in the Marine Environment: A Review. *Preprints*. DOI: <https://www.preprints.org/manuscript/202110.0057/v1>
4. Molloy, S., Varkey, P.S., Walker, T.R. (2021). Investigating Opportunities for Single-use Plastic Reduction in Nova Scotia Food Services During COVID-19. Prepared for Divert Nova Scotia. <https://divertns.ca/research-reports>
5. Spooner, I.S., **Walker, T.R.** (2021) Boat Harbour south wetlands sediment survey, November 2020. Report prepared for Nova Scotia Lands Inc., 26 p.
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8. Kitz, R., **Walker, T.R.**, Charlebois, S., Music, J. (2020) Plastic Food Packaging: Before and After COVID-19. Study conducted by the Agri-food Analytics Lab at Dalhousie University. <https://www.dal.ca/sites/agri-food/research/plastic-food-packaging--before-and-after-covid-19.html>; <https://cdn.dal.ca/content/dam/dalhousie/pdf/sites/agri-food/Plastics%20and%20COVID%20Preliminary%20Data%20EN.pdf>
9. Diggle, A., **Walker, T.R.** (2020) Determining Potential Business Impacts of an Extended Producer Responsibility Program for the Printed Paper and Packaging Waste Stream in Nova Scotia. Prepared for Divert Nova Scotia. https://divertns.ca/assets/files/EPRforPPP_DiggleWalker.pdf
10. **Walker, T.R.** (2019) Pollutant release registers are key tools to help curb air pollution. PeerJ Preprints, 7:e27983v1. <https://doi.org/10.7287/peerj.preprints.27983v1>
11. **Walker, T.R.** (2019) All change for climate change. PeerJ Preprints 7:e27982v1. <https://doi.org/10.7287/peerj.preprints.27982v1>
12. Charlebois, S., **Walker, T.R.**, McGuinty, E., Music, J. (2019) The single-use plastics dilemma: Perceptions and possible solutions. Study conducted by the Agri-food Analytics Lab at Dalhousie University. https://www.dal.ca/faculty/management/news-events/news/2019/06/06/release_majority_of_canadians_actively_shopping_for_food_with_non_plastic_packaging_dalhousie_survey_finds.html; <https://cdn.dal.ca/content/dam/dalhousie/pdf/management/News/News%20%26%20Events/Single-Use-Plastics-June-6-2019-EN.pdf>
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14. Chaudhary, M., **Walker, T.R.** (2018) RE: A Remedy at Last for the Ailing Ganges? - Pollution in the river Ganga is not new, but is there any way to save the holy river? Science e-Letter. American

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<https://doi.org/10.7287/peerj.preprints.27372v1>
 16. Liu, Z., **Walker, T.R.** (2018) RE: Measuring China's Circular Economy - China's ban is all not doom for global recycling industries. Science e-Letter. American Association for the Advancement of Science (United States). <http://science.sciencemag.org/content/339/6127/1526/tab-e-letters>
 17. **Walker, T.R.** (2018) Evaluation of criteria for meaningful Aboriginal consultation in Canada during environmental assessment. PeerJ Preprints 6:e27348v1.
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 22. Invited by Parks Canada to review Ecological Integrity Monitoring Programs at Fundy National Park, New Brunswick. Review comprised a site visit to observe monitoring programs and a review and editing of monitoring protocols.
 23. AMEC Environmental and Infrastructure (2015) Beaufort Regional Environmental Assessment Cumulative Effects Management Framework. Submitted to Aboriginal Affairs and Northern Development Canada (AANDC). (**Walker, T.R., technical lead subcontracting to AMEC Environmental and Infrastructure**).
 24. Dillon (2015) Area Risk Assessment Methodology Guidance Document. Submitted to Transport Canada. (**Walker, T.R., senior marine ecological risk assessment scientist**).
 25. Dillon (2014) Final Ecological Risk Assessment and Sediment Sampling in Quidi Vidi Harbour, Newfoundland and Labrador. Submitted to Public Works and Government Services Canada (PWGSC) on behalf of Transport Canada. (**Walker, T.R., senior ecological scientist**).
 26. Dillon (2014) Final Preliminary Quantitative Ecological Risk Assessment and Sediment Sampling in Sydney Harbour, Nova Scotia. Submitted to Public Works and Government Services Canada (PWGSC) on behalf of Transport Canada. (**Walker, T.R., senior ecological scientist**).
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- <https://www.thestar.com/halifax/2019/06/05/canadians-eager-to-cut-plastic-packaging-on-food-but-lose-their-appetite-once-the-price-increases-study-finds.html>
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<https://www.ngnews.ca/news/local/what-we-know-about-mercury-at-abercrombie-point-318884/>
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188. CTV News Morning Live Atlantic (May 17, 2019). *Talking about plastic marine pollution*. Interview with Heather Butts. (clip starts at 1:03)
<https://atlantic.ctvnews.ca/video?clipId=1680130&jwsourc=twi>
189. The Conversation (May 16, 2019). *Why decarbonizing marine transportation might not be smooth sailing*. <https://theconversation.com/why-decarbonizing-marine-transportation-might-not-be-smooth-sailing-116949> Commentary by **Tony R. Walker**
190. La Presse (May 12, 2019) *La Nouvelle-Écosse, championne du recyclage*. Interview with Jean-Thomas Léveillé and Olivier Pontbriand.
<https://www.lapresse.ca/actualites/environnement/201905/11/01-5225732-la-nouvelle-ecosse-championne-du-recyclage.php>
191. CBC News – Nova Scotia – Waves of Change (May 2, 2019) *Q&A: Some biodegradable bags survive years in water, underground* Telephone interview with Portia Clarke.
<https://www.cbc.ca/news/canada/nova-scotia/plastic-bags-waves-of-change-biodegradable-1.5118675?cmp=rss>
192. CBC Radio Information Morning - Halifax (May 1, 2019) *How 'biodegradable' is biodegradable plastic? New research on plastic bags may change what we consider environmentally friendly waste disposal*. Telephone interview with Portia Clarke. <https://www.cbc.ca/listen/live-radio/1-27-information-morning-ns/clip/15694298-biodegradable-bags-not-what-you-thought>
193. Corporate Knights (Apr 30, 2019) *It's time Canadian grocers – and governments – get tough on plastics*. By Adria Vasil, Corporate Knights. <https://www.corporateknights.com/channels/waste/its-time-canadian-grocers-and-governments-get-tough-on-plastics-15566381/>
194. 957 News (Apr 30, 2019). *The Sheldon MacLeod Show*. “We chat with Dr. Tony Walker, Assistant Professor, School for Resource and Environmental Studies at Dalhousie University. He talks about the cost of recycling and the impact on carbon emissions. Are we doing the right thing?” Telephone interview with Sheldon MacLeod (Clip starts at 12:00) <https://www.news957.com/audio/the-sheldon-macleod-show-2/>
195. Global News Radio - The Simi Sara Show (Apr 29, 2019) *Is Canada's recycling industry broken?* Interview with Simi Sara (Clip starts at 12:00) <https://omny.fm/shows/the-simi-sara-show/the-best-of-the-simi-sara-show-mon-apr-29th-2019>
196. Global News Radio – The Start Winnipeg (Apr 29, 2019) *Is Canada's recycling industry broken?* (Clip starts at 7:00) <https://omny.fm/shows/cjob-morning/well-see-you-in-detention>
197. Toronto Star (Apr 19, 2019) *Profits from plastics*. Interview with Moira Welsh.
<https://www.pressreader.com/canada/toronto-star/20190419>
198. CBC The Current (Mar 12, 2019) *Goods ranging from laundry detergent to Haagen-Dazs ice cream will soon be available in reusable packaging that can be returned to stores after use, in the hopes of reducing the amount of single-use plastic that ends up in your shopping basket. The U.S. company behind the system, called Loop, says it will also reduce the amount of plastic that ends up in landfills and the ocean. But are consumers ready to compromise on convenience?* Interview with Piya

- Chattopadhyay (Clip starts at 34:00) <https://www.cbc.ca/radio/thecurrent/the-current-for-march-12-2019-1.5052600>
199. CBC News (Feb 3, 2019) *Big retailer will test reusable packaging to replace throwaway plastic in Canada*. Telephone interview with Ross Marowitts. <https://www.cbc.ca/news/technology/loop-reusable-packaging-1.5004525>
 200. National Post (Feb 3, 2019) *Toronto-area retailer to test Loop reusable packaging system later this year*. Telephone interview with Ross Marowitts. <https://nationalpost.com/pmnlife/pmnlife-food-life-pmnlife-toronto-area-retailer-to-test-loop-reusable-packaging-system-later-this-year>
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 202. 570 News (Jan 23, 2019) *Jan 23: Kitchener Sidewalk Snow Clearing, Road Salt Use, and Ask Us Anything - Paper bags poor substitute for plastic*. Telephone interview with Mike Farwell (Clip starts at 1:04:50) <http://www.570news.com/audio/the-mike-farwell-show/>
 203. The Chronicle Herald (Jan 21, 2019). *Prof: Paper bags poor substitute*. Telephone interview with Francis Campbell <https://www.thechronicleherald.ca/news/prof-paper-bags-poor-substitute-277710/>
 204. Global News at 6 (Jan 16, 2019). *Halifax one step closer to plastic bag ban with draft bylaw on the way*. Interview with Alicia Draus. <https://globalnews.ca/video/4854986/halifax-one-step-closer-to-plastic-bag-ban-with-draft-bylaw-on-the-way>
 205. CBC News (Jan 15, 2019). *Halifax by-law to ban plastic bags*. Interview with Colleen Jones. <https://www.cbc.ca/player/play/1426456131772/>
 206. The Conversation (Jan 8, 2019). *Quieter ships could help Canada's endangered orcas recover*. <https://theconversation.com/quieter-ships-could-help-canadas-endangered-orcas-recover-107515>
Commentary by Priyanka Varkey and **Tony R. Walker**
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 208. CTV News at Five Atlantic (Dec 5, 2018). *Having a "plastic free Christmas"* Interview with Heidi Petracek (Clip starts at 3:00) <https://atlantic.ctvnews.ca/video?clipId=1552101>
 209. Halifax Today (Nov 30, 2018). *Dalhousie professor wants to see waste reduction this holiday season*. <https://www.halifaxtoday.ca/local-news/dalhousie-professor-wants-to-see-waste-reduction-this-holiday-season-1141773>
 210. 957 News (Nov 29, 2018). *The Sheldon MacLeod Show. "We wrap the hour with Dr. Tony Walker from Dalhousie who is encouraging people to go plastic-free this holiday season."* Telephone interview with Sheldon MacLeod (Clip starts at 29:00) <https://www.news957.com/2018/11/29/the-sheldon-macleod-show-1-p-m-54/>
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 212. Faculty of Management News (Nov 15, 2018) *"There's no textbook about this level of interdisciplinary engagement" First-year students learn to solve complex management problems in new Interdisciplinary Management course*. Interview with Erin Elaine Casey <https://www.dal.ca/faculty/management/news-events/news/2018/11/15/there-s-no-textbook-about-this-level-of-interdisciplinary-engagement.html>
 213. CBC Radio Information Morning - Cape Breton (Nov 13, 2018) *Plastics Challenge – Food Packaging*. Telephone interview with Steve Sutherland.

214. CBC Radio Information Morning – Moncton (Nov 13, 2018) *Plastics Challenge – Food Packaging*. Telephone interview with Jonna Brewer.
215. CBC Radio Information Morning - Halifax (Nov 13, 2018) *Plastics Challenge – Food Packaging*. Telephone interview with Portia Clarke.
216. CBC Radio Newfoundland Morning (Nov 13, 2018) *Plastics Challenge – Food Packaging*. Telephone interview with Bernice Hillier and Martin Jones.
217. CBC Radio Information Morning - Charlottetown (Nov 13, 2018) *Plastics Challenge – Food Packaging*. Telephone interview with Matt Rainnie and Mitch Cormier.
218. CBC Radio Labrador Morning (Nov 13, 2018) *Plastics Challenge – Food Packaging*. Telephone interview with Bailey Whit and Matt McCann.
219. CBC Radio St. John's Morning (Nov 13, 2018) *Plastics Challenge – Food Packaging*. Telephone interview with Hosts Fred Hutton and Krissy Holmes.
220. CBC News (Nov 1, 2018) *Today the NLC bids goodbye to plastic bags. What's next?* Telephone interview with Lindsay Bird <https://www.cbc.ca/news/canada/newfoundland-labrador/nlc-plastic-bags-debate-1.4879469>
221. CBC radio interview on Maritime Noon with David Pate (Sep 26, 2018) *Getting rid of single-use plastics*. <https://www.cbc.ca/listen/shows/maritime-noon/episode/15605130>
222. The Conversation (Aug 15, 2018) *Mengurangi pemakaian sedotan plastik mungkin sepele, tapi tetap langkah penting*. <https://theconversation.com/mengurangi-pemakaian-sedotan-plastik-mungkin-sepele-tapi-tetap-langkah-penting-101119> Commentary by Riley Schnurr and **Tony R. Walker**
223. Global News (Aug 2, 2018) *Everyday plastics quietly pollute the air as they degrade: study*. <https://globalnews.ca/news/4365368/plastic-greenhouse-gas-emissions-pollution-degrade/> Interview with Josh Elliott, Global News.
224. CBC Radio Information Morning - Cape Breton (Aug 1, 2018) *Why you shouldn't be a 'straw-man' environmentalist*
225. CBC Radio Information Morning - Halifax (Jul 31, 2018) *Why you shouldn't be a 'straw-man' environmentalist*
226. 570 News (Jul 30, 2018) *Jul 30: Guns, Seatbelts on Buses, and Plastic Straws - Why you shouldn't be a 'straw-man' environmentalist*. Telephone interview with Mike Farwell (Clip starts at 2:11:54) <http://www.570news.com/audio/the-mike-farwell-show/>
227. CBC News (Jul 30, 2018) *Why throwing a message in a bottle into the ocean might be a bad idea* Telephone interview with Jesara Sinclair <https://www.cbc.ca/news/canada/prince-edward-island/pei-messages-bottles-ocean-plastic-pollution-1.4761138>
228. The Conversation (Jul 24, 2018) *Why you shouldn't be a 'straw-man' environmentalist* <https://theconversation.com/why-you-shouldnt-be-a-straw-man-environmentalist-100303> Commentary by Riley Schnurr and **Tony R. Walker** Republished by 29 others including the National Post, CBC and the Chronicle Herald.
229. National Post (Jul 4, 2018) *How to clean up our universal plastic tragedy* <https://nationalpost.com/pmnl/news-pmnl/how-to-clean-up-our-universal-plastic-tragedy> Commentary by **Tony R. Walker**
230. The Conversation (Jul 3, 2018) *How to clean up our universal plastic tragedy* <https://theconversation.com/how-to-clean-up-our-universal-plastic-tragedy-98565> Commentary by **Tony R. Walker**
231. CBC News (Jun 26, 2018) *Mi'kmaq want answers from BP Canada after drilling mud spill off Nova Scotia coast* Telephone interview with Danielle D'Entremont, story reported by Nic Meloney. <https://www.cbc.ca/news/indigenous/bp-canada-drilling-mud-spill-mikmaq-chiefs-west-aquarius-nova-scotia-1.4721347>

232. 570 News (Jun 18, 2018) *McDonald's to switch to paper straws in U.K., Ireland*. Telephone interview with Mike Farwell (Clip starts at 1:05:44) <http://www.570news.com/audio/the-mike-farwell-show/>
233. Global News (Jun 10, 2018) *Why China has Canada spooked about the world's plastic waste crisis* <https://globalnews.ca/news/4259225/china-plastic-waste-ban-canada-crisis-g7/>? Telephone interview with Josh Elliott, Global News.
234. The Discourse (Jun 8, 2018) *8 ways Canada can take leadership on plastic pollution at the G7* <https://www.thediscourse.ca/sustainability/8-ways-canada-can-take-leadership-on-plastic-pollution-at-the-g7> Telephone interview with Adria Vasil, The Discourse.
235. Chronicle Herald (Jun 8, 2018) *OPINION: Planet is choking on plastic, and it's urgent to act decisively* <http://thechronicleherald.ca/opinion/1576335-opinion-planet-is-choking-on-plastic-and-it%E2%80%99s-urgent-to-act-decisively?>
236. Radio Canada International (May 11, 2018) *Canada proposes international plastics reform* By Marc Montgomery. <http://www.rcinet.ca/en/2018/05/11/canada-proposes-international-plastics-reform/>
237. 570 News (Apr 23, 2018) *Britain is banning plastic straws – and asking Canada to join* Telephone interview with Mike Farwell (Clip starts at 45:17) <http://www.570news.com/audio/the-mike-farwell-show/>
238. Busan English Radio Broadcasting Station (Apr 18, 2018) *Marine Plastic Pollution* Telephone interview with David Kim, newscaster for Busan English Radio Broadcasting Station based in South Korea. Aired on Earth Day (Apr 22, 2018) http://www.befm.or.kr/sub/sub02_01.jsp
239. The Conversation (Apr 12, 2018) *The battle to ban plastic bags* <https://theconversation.com/the-battle-to-ban-plastic-bags-94350> Commentary by Sylvain Charlebois and **Tony R. Walker**.
240. Winnipeg Freepress (Apr 11, 2018) *Plastic-bag pollution problem* <https://www.winnipegfreepress.com/opinion/analysis/plastic-bag-pollution-problem-479356463.html> Opinion by Sylvain Charlebois and **Tony R. Walker**.
241. The Spec (Apr 5, 2018) *Commentary: The plastic bag pollution paradox* <https://www.thespec.com/opinion-story/8373028-the-plastic-bag-pollution-paradox/> Commentary by Sylvain Charlebois and **Tony R. Walker**.
242. Telegraph Journal (Apr 10, 2018) *Commentary: The plastic bag pollution paradox* <https://www.telegraphjournal.com/times-transcript/author/17409/sylvain-charlebois-tony-walker> Commentary by Sylvain Charlebois and **Tony R. Walker**.
243. CFAME Connection (Apr 15, 2018) *Single-Use Plastic – Are We Willing to Change?* <https://blogs.dal.ca/cfame/2018/04/15/in-the-news-single-use-plastic-are-we-willing-to-change/>
244. The Globe and Mail (Apr 2, 2018) *Replacing plastics will require a consumer revolution* <https://www.theglobeandmail.com/business/commentary/article-replacing-plastics-will-require-a-consumer-revolution/> Commentary by Sylvain Charlebois and **Tony R. Walker**.
245. Corporate Knights (Mar 22, 2018) *Trash Talk: A recent move by China to tighten recycling requirements has thrown municipal recycling schemes across Canada into turmoil* <http://www.corporateknights.com/voices/adria-vasil/> Telephone interview with Adria Vasil, Corporate Knights.
246. CBC News (Mar 20, 2018) *Loblaws losing consumer trust after bread price fixing story, Dalhousie study finds* <http://www.cbc.ca/news/business/grocery-bread-price-fixing-grocery-trust-dalhousie-1.4584400>
247. Huffington Post (Mar 20, 2018) *Canadians' Trust In Loblaws, Other Food Retailers Drops Amid Price-Fixing Scandal* http://www.huffingtonpost.ca/2018/03/20/consumer-trust-loblaws-retailers_a_23390650/

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249. CTV News at Five Atlantic (Mar 20, 2018) *First at Five we look into what Maritime businesses are doing to cut down on their environmental footprint* <https://atlantic.ctvnews.ca/ctv-news-at-5>
250. The Globe and Mail (Mar 20, 2018) *Consumer trust in grocers tumbles after bread-price-fixing scheme: study* https://www.theglobeandmail.com/report-on-business/consumer-trust-in-grocers-tumbles-after-bread-price-fixing-scheme-study/article38308074/?utm_medium=Referrer:+Social+Network+Media&utm_campaign=Shared+Web+Article+Links
251. Toronto Star (Mar 20, 2018) *Public trust in Loblaws drops 10 per cent in three months, study says* <https://www.thestar.com/business/2018/03/20/public-trust-in-loblaws-drops-10-per-cent-in-three-months-study-says.html>
252. Chronicle Herald News (Mar 12, 2018) *Canada's G7 anti-plastics push limited by domestic action, professor says* http://thechronicleherald.ca/canada/1552260-canadas-g7-anti-plastics-push-limited-by-domestic-action-professor-says#.WqgqZ_fGmrM.twitter Telephone interview with Mia Rabson, The Canadian Press.
253. CBC News (Mar 12, 2018) *Canada's G7 anti-plastics push would fare better with federal policies, professor says* <http://www.cbc.ca/news/technology/canada-plastics-1.4572415> Telephone interview with Mia Rabson, The Canadian Press.
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255. The National Post (Mar 12, 2018) *Canadian professor says ban plastic bags now* <http://nationalpost.com/pmnl/news-pmnl/canada-news-pmnl/in-the-news-today-march-12> Telephone interview with Mia Rabson, The Canadian Press.
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257. Antadze, N., Myers, H., **Walker**, T.R. (Mar 6, 2018) *Our Plastic World: The Breakdown*. Presentations and Panel Discussion. Environmental Studies Symposium, UPEI, Charlottetown, PE.
258. CBC radio interview on Maritime Noon with David Pate. *Dumping Plastics*. (Feb 7, 2018). <http://www.cbc.ca/news/canada/nova-scotia/programs/maritimenoon/women-in-agriculture-sprinkler-feedback-dumping-plastics-1.4524569>
259. Telephone interview with Adria Vasil, Environmental journalist, Globe and Mail and Corporate Knights (Jan 30, 2018). *Plastic waste management*.
260. **Walker**, T.R., **Xanthos**, D. (Jan 26, 2018) *Eradicating single use plastics in society*. SRES Talks. SRES, Dalhousie University.
261. CBC News interview with John Tattrie (Jan 21, 2018). *Plastic debate bags the question: what to do with all our junk?* <http://www.cbc.ca/news/canada/nova-scotia/plastic-debate-bags-the-question-what-to-do-with-all-our-junk-1.4496435>
262. The Chronicle Herald interview with Francis Campbell (Jan 18, 2018). *Dependence on plastics must end, says Dalhousie professor*. <http://thechronicleherald.ca/novascotia/1537995-dependence-on-plastics-must-end-says-dalhousie-professor>
263. Truro Daily News interview with Francis Campbell (Jan 18, 2018). *End plastic dependence: Dalhousie professor*. <http://www.trurodaily.com/news/end-plastic-dependence-dalhousie-professor-178715/#.Wmjh-43UI8Q.facebook>
264. **Walker**, T.R., **Gulas**, S., **Downton**, M., **D'Souza**, K., **Hayden**, K. (2017). Management of Canadian Arctic Ocean oil and gas developments: Implications for sovereignty, governance and environmental

- pollution. *The Zone*. Publisher: Coastal Zone Canada Association. Spring/Summer, 12-15.
http://www.coastalzonecanada.org/wp-content/uploads/2017/06/CoastalZoneNewsletterSummer2017.pdf?mc_cid=4f3af1be07&mc_eid=c78dcd3ae6
265. Fred Bonner, Tony R **Walker**, Frank Potter, Andy Walter, Rhett Thompson, Marc Skinner, Courtney Bonner, Abby van der Jagt, Diane Praught, Michelle Coleman, Mike Parker, Melanie MacDonald (2017). Fifteen Years of Change: When a Drone was Simply a Bee! *Canadian Reclamation*. 17(1): 6-10.
266. **Walker**, T.R., **Pettipas, S.**, **Bernier, M.**, **Xanthos, D.**, Day, A. (2016). Canada's Dirty Dozen: A Canadian policy framework to mitigate plastic marine pollution. *The ZONE*, Fall issue, 9-12. Coastal Zone Canada Association
https://gallery.mailchimp.com/2a4b8bcd7085564c6496079df/files/THEZONE_FALL_2016.pdf
267. **Walker**, T.R., **Bernier, M.**, **Blotnicky, B.**, **Golden, P.G.**, **Janes, J.**, **Hoffman, E.**, **Kader, A.**, **Pettipas, S.**, **Vermeulen, S.** (2016). Harbour divestiture in Canada: Passing the buck or passing the puck to new custodians. *The ZONE*. 2: 17-19. Publisher: Coastal Zone Canada Association
<https://gallery.mailchimp.com/2a4b8bcd7085564c6496079df/files/THEZONESpring2016Final.pdf>
268. Invited by CBC Nova Scotia (Dave Irish) to comment on a paper published recently in Marine Pollution Bulletin. The paper is related to contaminants found in sediments, lobster and mussel tissue in Isaacs Harbour, which is poised for the development of a liquefied natural gas (LNG) export marine terminal. November 2015.
269. Halifax Media Co-op (May 7, 2015) *How to clean Boat Harbour 101* Interview with Miles Howe to comment about 'cleaning up Boat Harbour' and potential remediation options available.
<http://halifax.mediacoop.ca/cleanboatharbour101>
270. Invited by Charlotte White (UK based journalist) to comment about the impact pollution has on climate change for an article to appear in *The Ecologist*. May 2015.
271. Invited speaker at the 2013 Halifax Oceans Film Festival to lead a discussion about the film documenting the Antarctic tooth-fishery in the Ross Sea, Antarctica. 'The Last Ocean'. June 2013.
<http://internationaloceaninstitute.dal.ca/FilmFest.htm>
272. **Walker**, T.R., Grant, J., **Archambault, M-C.** (2007) Accumulation of marine debris on an intertidal beach in an urban park (Halifax Harbour, Nova Scotia). *The Ecological Monitoring and Assessment Network (EMAN)*. 5: 7-8.
273. **Walker**, T.R. (2006) Aquanet Highly Qualified New Scientists. In: *Northern Aquaculture Special Supplement*. p. 10.
274. **Walker**, T.R. (1995) Eagle on Bird Island. *Cycle Touring and Campaigning*. Feb. 26-27.
275. **Walker**, T.R. (1995) Home is Bird Island with penguins, seals and just two humans. *Chronical Advertiser*. Sep 6.
276. East Anglian Daily Times (Dec 3, 1992) *Tony learns to keep his cool*.
277. Evening Gazette (Dec 2, 1992) *Experts travel to give advice*.

5.8 Conferences, Colloquia, Symposia and Workshops

1. Spooner, I.S., **Davidson, K.B.**, **Holmes, B.E.J.**, **Dunnington, D.W.**, **Walker, T.R.**, Lake, C.B., Su, C-C. (2023). *Application of the paleolimnological method to assess metal contamination in pulp mill stabilization basin sediments in coastal Nova Scotia, Canada*. 3.07.P-Mo188. SETAC Europe 33rd Annual Meeting, Dublin, Ireland. Data-driven environmental decision-making. **Poster** May 2023.
2. Invited webinar panel speaker. **Walker, T.R.** (2023). *Dos and Don'ts of Microplastic Research – Current trends of unsustainable plastic production and micro(nano)plastic pollution and priorities for future research*. Invited and Chaired by Dr. Joana Prata. Hosted by Water Emerging Contaminants & Nanoplastics (WECN, <https://www.oaepublish.com/wecn>).
https://www.oaepublish.com/wecn/journal/webinars_detail/192 Apr. 2023.

3. Invited guest speaker. **Walker, T.R.** (2022). *Introduction to microplastic pollution*. Environment and Climate Change Canada, Dartmouth, Nova Scotia. **Platform** Oct. 2022.
4. Diane M. Orihel, Chelsea M. Rochman, Barbara A. Katzenback, Celia Konowe, Desiree K. Langenfeld, Émilie C. Montreuil Strub, Garth A. Covernton, Hannah Vonberg, J. Drew Thompson, Jennifer F. Provencher, Ken M. Jeffries, Kennedy Bucci, Ludovic Hermabessiere, Mark L. Mallory, Matthew J. Hoffman, Melissa Duhaime, Michael D. Rennie, Michael J. Paterson, Natasha C. B. C. A. Neves, Rachel McNamee, Raúl F. Lazcano, Samantha M. Gene, Scott N. Higgins, Stephanie Graves, Susanne M. Brander, Timothy Hoellein, Tony R. **Walker**, Yael Lewis. (2022) *The pELastic Project: Mesocosm- and Ecosystem-Scale Experiments on the Fate and Effects of Microplastics in Freshwater Ecosystems*. 48th Canadian Ecotoxicity Workshop, Winnipeg, MB. **Platform** Oct. 2-5, 2022.
5. Baechler, B., **Walker**, T.R. (2022) *Pulse of the Public*. 7th International Marine Debris Conference (7IMDC), Busan, Republic of Korea. **Co-Chair Technical Session** Sep. 2022.
6. Markley, L., Grunzner, M., **Walker**, T.R. (2022) *Uncertainties about waste using a global online survey and review approach: Environmentalist perceptions, waste compositions and views from media and science*. 7th International Marine Debris Conference (7IMDC), Busan, Republic of Korea. **Platform** Sep. 2022.
7. Ammendolia, J., Jambeck, J., **Walker**, T.R. (2022) *After the ban: how are we monitoring the effectiveness of single-use plastics reduction policies?*. 7th International Marine Debris Conference (7IMDC), Busan, Republic of Korea. **Platform** Sep. 2022.
8. **Walker**, T.R. (2022) *Tracking government responses to plastic pollution before and during the COVID-19 pandemic*. 7th International Marine Debris Conference (7IMDC), Busan, Republic of Korea. **Platform** Sep. 2022.
9. Adam, I., **Walker**, T.R., Bezerra, J.C., Clayton, A. (2022) *Attitudinal and behavioural segments on single-use plastics in Ghana: Implications for reducing marine plastic pollution*. 7th International Marine Debris Conference (7IMDC), Busan, Republic of Korea. **Platform** Sep. 2022.
10. **Walker**, T.R., Charlebois, S., Kitz, R., McGuinty, E., Medeiros, A., Molloy, S., Music, J., Saunders, S., Varkey, P. (2022) *Gauging the pulse of consumer behavior and perceptions of single-use plastic (SUP) use before and during the COVID-19 pandemic: A Canadian perspective*. 7th International Marine Debris Conference (7IMDC), Busan, Republic of Korea. **Platform** Sep. 2022.
11. McIntyre, J., Duncan, K., Fulton, L., Smith, A., Goodman, A., Brown, C., **Walker**, T.R. (2022) *Collaborative Retrieval of Abandoned, Lost, and Discarded Fishing Gear in Southwest Nova Scotia, Canada*. 7th International Marine Debris Conference (7IMDC), Busan, Republic of Korea. **Poster** Sep. 2022.
12. Panel discussion and participant in the Nicholas Institute for Environmental Policy Solutions, Duke University session on *Cleaning Up Without Messing Up Session 2: The Need for a Regulatory Framework for Implementation of Cleanup Technologies*. Jun 23, 2022. **Invited Participant and Panel Discussion Member** Jun. 2022. (virtual) <https://nicholasinstitute.duke.edu/events/cleaning-up-without-messing-up-session-2>
13. **Walker**, T.R. (2022). *The Scourge of Ocean Plastics: The Solutions*. International Ocean Institute annual training programme, Dalhousie University, Halifax, Nova Scotia. **Platform** May. 2022.
14. Allen, S., Maselli, V., **Walker**, T.R. (2021). [Novel methods to quantify atmospheric micro and nano plastic \(MnP\) 3D profiles using unmanned aerial vehicles and paramotors](https://agu.confex.com/agu/fm21/meetingapp.cgi/Paper/867018). A44D - Microplastics in the Atmosphere and Ocean. AGU Fall Meeting 2021. New Orleans and Online. **Platform (virtual)** Dec 13-17, 2021. <https://agu.confex.com/agu/fm21/meetingapp.cgi/Paper/867018>
15. Fraser, M., **Walker**, T.R., Sherwood, O., Oakes, K. (2021). *Boat Harbour Remediation: Assessing Legacy Impacts of Pulp Mill Effluent on Coastal Food Web Structure using Stable Isotope Analysis*. Atlantic CLRA Atlantic Reclamation Conference (ARC) ARC2021, Halifax, Nova Scotia Nov 15-19, 2021. **Platform (virtual)** Nov. 2021.
16. **Walker**, T.R. (2021). *Environmental and health impacts of COVID-19 related plastic waste*.

- Trottier Institute for Sustainability in Engineering and Design (TISED)/BRACE Seminar, McGill University. **Platform (virtual)** Oct. 2021. <https://www.mcgill.ca/tised/events-0/environmental-and-health-impacts-covid-19-related-plastic-waste>;
<https://www.youtube.com/watch?v=URi8dAMz9Lk&list=PLq4U0PFBHnAWwn71RozG9-ndY32shqhrO&index=4>
17. Strain, H.S., Beazley, K.F., **Walker**, T.R. (2021). *Pharmaceuticals and personal care products and their sublethal and lethal effects in aquatic organisms*. 47th Canadian Ecotoxicity Workshop, Halifax, Nova Scotia Oct 3-6, 2021. **Poster (virtual)**
 18. Maltby, E., Wyeth, R., Williams, J., Oakes, K., **Walker**, T.R. (2021). *Toxicological bioassay – sublethal waterborne cadmium effects on juvenile American lobster *Homarus americanus* behaviour*. 47th Canadian Ecotoxicity Workshop, Halifax, Nova Scotia Oct 3-6, 2021. **Platform**
 19. Fraser, M., Sherwood, O., Oakes, K., **Walker**, T.R. (2021). *Assessing Impacts of Effluent on Nutrient Cycling and Food Web Length in a Coastal Marine Ecosystem using Compound Specific Isotope Analysis*. 47th Canadian Ecotoxicity Workshop, Halifax, Nova Scotia Oct 3-6, 2021. **Platform**
 20. Mora, M., **Walker**, T.R., Willis, R. (2021). *Characterization and evaluation of potential contaminants of concern in small craft harbours sediments in Nova Scotia*. 47th Canadian Ecotoxicity Workshop, Halifax, Nova Scotia Oct 3-6, 2021. **Poster (virtual)**
 21. Fraser, M., Sherwood, O., Oakes, K., **Walker**, T.R. (2021). *Assessing Impacts of Effluent on Nutrient Cycling and Food Web Length in a Coastal Marine Ecosystem using Compound Specific Isotope Analysis*. Sustainable Oceans Conference, Halifax, Nova Scotia Sep 23-25, 2021. **Poster. Won Best Poster** Sep. 2021.
 22. Goodman, A.J., **Walker**, T.R., Brown, C.J., Wilson, B., Sameoto, J. (2021) *Benthic marine debris in the Bay of Fundy, Eastern Canada: Spatial distribution and categorization from seafloor video footage*. Coastal Zone Canada (CZC2021), Iqaluit, Canada. **Platform and Poster (virtual)** June 2021. <https://www.coastalzonecanada.org/wp-content/uploads/2021/06/CZC2021-Full-Agenda.pdf>
 23. Fulton, L., Goodman, A.J., McIntyre, J., Smith, A., **Walker**, T.R., Brown, C.J. (2021). *Retrieval of Abandoned, Lost, and Discarded Fishing Gear in Southwest Nova Scotia, Canada: Environmental and Economic Impacts to the Commercial Lobster Industry*. GeoHab 2021 Marine Geological and Biological Mapping. GeoHab Nodal Conference of the Americas (GNCA). **Platform (virtual)** May 2021. http://geohab.org/wp-content/uploads/2021/04/2021_GNCA_abstracts_and_program_compiled.pdf
 24. **Walker**, T.R. (2021). *Environmental and health impacts of COVID-19 related plastic waste*. COVID-19 and the Environment. International Society for Environmental Epidemiology (ISEE). **Platform (virtual)** Apr. 2021. https://www.iseepi.org/common/Uploaded%20files/2021%20Website%20Edits/03%20-%20March/Short%20Course%20COVID%2019%20and%20the%20environment%20April%202021_0403_v2.pdf
 25. Mora, M., **Walker**, T.R., Willis, R. (2021). *Spatiotemporal Characterization and Evaluation of Petroleum Hydrocarbons in Small Craft Harbour Sediments in Nova Scotia, Canada*. SETAC Europe 10th Young Environmental Scientists Meeting. **Poster (virtual)** Feb 22-26, 2021. <https://yes2021.setac.org/>
 26. Goodman, A.J., **Walker**, T.R., Brown, C.J., Curtis, B., Gazzola, V., Sameoto, J. (2020) *Benthic marine debris in the Bay of Fundy, Eastern Canada: Spatial distribution and categorization from seafloor video footage*. In: Sameoto, J.A., Keyser, F., Keith, D., Brown, C.J., Church, I. 2020. Proceedings of the Bay of Fundy Seafloor Mapping Forum: Dartmouth, Nova Scotia, March 13, 2020. Can. Tech. Rep. Fish. Aquat. Sci. 3395: v + 24 p. <https://waves-vagues.dfo-mpo.gc.ca/Library/40885094.pdf>
 27. Johnston Edwards, S., **Walker**, T.R. (2020) *An overview of Canada's National Pollutant Release Inventory program as a pollution control policy tool*. Environment and Climate Change Canada (ECCC) National Pollutant Release Inventory (NPRI) User Workshop. **Platform** February 25, 2020, Montreal, Quebec.

28. Panel discussion and participant in the Canadian Council of Ministers of the Environment (CCME) engagement session on *Phase 2 of the Strategy on Zero Plastic Waste*. Halifax, Nova Scotia. Nov 20, 2019. **Invited Participant and Panel Discussion Member** Nov. 2019.
29. 2nd Clean Ocean Summit organized by the Clean Foundation, through support of Environment and Climate Change Canada (ECCC). Halifax, Nova Scotia. Nov 18-19, 2019. **Invited Participant and Steering Committee Member** Nov. 2019.
30. Panel discussion. Invited by Sobeys Inc to participate on a Panel on Business Sustainability. *Rethinking Waste: Challenging Convention in Corporate Canada*. Halifax, Nova Scotia. **Panel discussion** Oct 29, 2019. https://vimeo.com/377426328?utm_source=email&utm_medium=vimeo-cliptranscode-201504&utm_campaign=29220
31. Quanz, M.E., Walker, T.R., Oakes, K., Willis, R. (2019) *Effects of waterborne effluent on wetlands surrounding an industrial wastewater treatment facility*. 56th Annual Meeting of the Atlantic Society of Fish and Wildlife Biologists and the 2019 Annual Science Meeting of the Mersey Tobeatic Research Institute, Oak Island, Nova Scotia. **Won Best Poster** Oct. 2019
<http://mtri.speciesatrisk.ca/?q=node/159>
32. Ambrose, K.K., Box, C., Boxall, J., Brooks, A., Eriksen, M., Fabres, J., Fylakis G., Walker, T.R. (2019) *Spatial trends and drivers of marine debris accumulation on shorelines in South Eleuthera, The Bahamas using citizen science*. 72nd annual conference of the Gulf and Caribbean Fisheries Institute, Punta Cana, Dominican Republic. **Platform** Nov 2019. GCFI72. <https://www.gcfi.org/gcfi-72-conference/>
33. Varkey, P., Walker, T.R., Saunders, S. *SUP Halifax? Identifying Barriers to Reducing Single-Use Plastics in the Halifax Regional Municipality*. Sustainable Oceans Conference, Dalhousie University, Halifax, Nova Scotia. **Poster** Sep. 2019.
34. Panel discussion. Davies, K., Metaxas, A., **Walker, T.R.**, Oliver, E. *Oceans in the Anthropocene*. Central Library, Halifax. In partnership with The Conversation Canada, Dalhousie University.
<https://halifax.bibliocommons.com/events/5d374f12a51ea22e0077a41b> **Panel discussion** Sep. 2019.
35. Charlebois, S., **Walker, T.R.** McGuinty, E., Music, J. (2019) *The single-use plastics dilemma: Perceptions and possible solutions*. Canadian Health Food Association (CHFA) East Conference, Toronto, Canada. Sep. 2019. <https://chfa.ca/en/Events/CHFA-East/Conference>
36. **Walker, T.R.** *Solutions for a Global Single-Use Plastic Marine Pollution Problem*. National SHAD annual high school student training programme, Dalhousie University, Halifax, Nova Scotia. **Platform** July. 2019.
37. **Walker, T.R.** *Drowning in Debris: Solutions for a Global Pervasive Marine Pollution Problem*. 39th annual training programme, Dalhousie University, Halifax, Nova Scotia. **Platform** June. 2019.
38. Masoumeh Alimohammadi, Hayden Tackley, Baillie Holmes, Kirklyn Davidson, Craig B. Lake, Ian S. Spooner, Rob C. Jamieson, Tony R. Walker. *Field and Laboratory Physical Property Characterization for a Contaminated Sediment for Bench Scale Dewatering Purposes*. Geo-Environmental Engineering 2019 Concordia University, Montreal, Canada, May 30-31, 2019. **Platform** May 2019.
39. Tony R. **Walker**, Michelle Adams. *Sustainability in ports: Drivers, barriers and trends*. Sustainability in Ports. SSHRC Partnership Grant: Green Shipping, Governing Sustainability in the Maritime Supply Chain, Green Shipping Network Vancouver Workshop, University of British Columbia, Vancouver Campus, Vancouver, Canada. May 6-7, 2019. **Platform** May 2019.
40. Mehrnaz Ashrafi, Michele Acciaro, Tony R. Walker, Greg Magnan, and Michelle Adams Corporate sustainability in Canadian and US maritime ports. Sustainability in Ports. SSHRC Partnership Grant: Green Shipping, Governing Sustainability in the Maritime Supply Chain, Green Shipping Network Vancouver Workshop, University of British Columbia, Vancouver Campus, Vancouver, Canada. May 6-7, 2019. **Platform** May 2019.
41. Judith van Leeuwen, Rene Taudal Poulsen, Nishatabbas Rehmatulla, Tony R. **Walker**, and Michelle Adams. Environmental Transparency in the shipping industry. Green Shipping Motivation and

- Accountability. SSHRC Partnership Grant: Green Shipping, Governing Sustainability in the Maritime Supply Chain, Green Shipping Network Vancouver Workshop, University of British Columbia, Vancouver Campus, Vancouver, Canada. May 6-7, 2019. **Platform** May 2019.
42. Samaneh Karbalaei, Parichehr Hanachi, Tony R. **Walker**. *Microplastic bioaccumulation in rainbow trout (*Oncorhynchus mykiss*)*. International Conference on Sustainable Energy and Energy Calculations (ICSEEC 2019) Koycegiz, Mugla, Turkey, April 12-14, 2019. **Platform** Apr 2019. <https://zenodo.org/record/2650910#.XMm1gOtKiqS>
http://www.greenconferences.org/abstractsubmission/Conference_Program.pdf
43. Tony R **Walker**, Emma Hoffman, Masi Alimonhammadi, James Lyons, Emily Davis, Craig Lake. *Characterization and spatial distribution of organic contaminated sediment from historical industrial effluents to inform remediation decisions*. 11th International SedNet Conference Hotel Dubrovnik Palace, Dubrovnik, Croatia, April 3-5. **Platform** and **Poster** Apr. 2019. <https://sednet.org/wp-content/uploads/2019/03/20190326-sednet-programma-2019-WEB.pdf>.
44. Emily Davis, Tony R **Walker**, Michelle Adams, Rob Willis. *Characterization and Source Apportionment of Polycyclic Aromatic Hydrocarbons in Small Craft Harbour Sediments in Nova Scotia, Canada*. Tenth International Conference on Remediation and Management of Contaminated Sediments, New Orleans, Louisiana, February 11-14. **Poster** Feb. 2019. https://www.battelle.org/docs/default-source/newsroom/sediments-conference/2019sed_final-preliminary-program.pdf?sfvrsn=a17f8488_12.
45. Tony R **Walker**, Emma Hoffman, Masi Alimonhammadi, James Lyons, Emily Davis, Craig Lake. *Characterization and spatial distribution of organic contaminated sediment from historical industrial effluents to inform remediation decisions*. Tenth International Conference on Remediation and Management of Contaminated Sediments, New Orleans, Louisiana, February 11-14. **Poster** Feb. 2019. https://www.battelle.org/docs/default-source/newsroom/sediments-conference/2019sed_final-preliminary-program.pdf?sfvrsn=a17f8488_12.
46. Participated in a roundtable on UN Sustainable Development Goals with the Foreign Policy Research and the Policy Planning Divisions of Global Affairs. Dalhousie University, Nova Scotia. **Invited Participant** Jan. 2019.
47. Invited to attend *The Second Meeting of the Ad Hoc Open-Ended Expert Group on Marine Litter and Microplastics* hosted by the UN Environment in Geneva. Dec. 2018.
48. Clean Ocean Summit organized by the Clean Foundation, through support of Fisheries and Oceans Canada (DFO), Environment and Climate Change Canada (ECCC) and Divert NS. St. Andrews, New Brunswick. Nov 25-27, 2018. **Invited Participant and Steering Committee Member** Nov. 2018.
49. Invited guest speakers. **Walker**, T.R., Schnurr, R. *Marine plastics*. Environment and Climate Change Canada, Dartmouth, Nova Scotia. **Platform** Nov. 2018.
50. Canadian Science Symposium on Plastics. Hosted by Environment and Climate Change Canada, Ottawa, Ontario. **Invited Participant** Nov. 2018.
51. Panel discussion. Adams, M., Brooks, M., Parsons, J., **Walker**, T.R. *Ports Modernization: Balancing Economic Prosperity and Environmental Sustainability*. MacEachen Institute for Public Policy and Governance, Dalhousie University, Halifax, Nova Scotia. **Panel discussion** Oct. 2018. https://www.dal.ca/dept/maceachen-institute/events/policy_matters2018/Ports-and-Shipping.html
52. Chaudhary, M., Oakes, K., Wills, R., **Walker**, T.R. *Monitoring Effects of Pulpmill Effluents on Marine Sediments and Biota*. Atlantic Reclamation Conference, Miramachi, New Brunswick, October 15-18. **Platform** Oct. 2018. <http://atlanticclra.ca/wp-content/uploads/2018/10/CLRA-National-ARC-2018-Conference-Program.pdf>
53. Quanz, M., Oakes, K., Wills, R., **Walker**, T.R. *Effects of Waterbourne Effluent on Wetlands Surrounding an Industrial Waterwater Treatment Facility*. Atlantic Reclamation Conference, Miramachi, New Brunswick, October 15-18. **Platform** Oct. 2018. <http://atlanticclra.ca/wp-content/uploads/2018/10/CLRA-National-ARC-2018-Conference-Program.pdf>

54. Panel discussion. **Walker**, T.R., Schnurr, R. *Strategies to reduce marine pollution from single-use plastics (SUPs)*. Faculty of Management, Dalhousie University, Halifax, Nova Scotia. **Panel discussion** Sep. 2018. <https://www.eventbrite.ca/e/faculty-of-management-homecoming-breakfast-panel-discussion-tickets-49552289231>
55. Chaudhary, M., Oakes, K., Wills, R., **Walker**, T.R. *Effects of industrial effluents on marine sediments and biota of Northumberland Strait*. Sustainable Oceans Conference, Dalhousie University, Halifax, Nova Scotia. **Poster** Sep. 2018.
56. Schnurr, R., Alboiu, V., Quanz, M., **Walker**, T.R. *Global strategies to reduce marine pollution from single-use plastics (SUPs)*. Sustainable Oceans Conference, Dalhousie University, Halifax, Nova Scotia. **Platform** Sep. 2018.
57. Attended the Workshop on contemporary and emerging challenges of shipping in the northwest Atlantic and eastern Arctic. Supported by the Ocean Frontier Institute (OFI). Dalhousie University, Halifax, Nova Scotia. **Workshop** Aug. 2018.
58. Barnes, A., Beazley, K., **Walker**, T.R., Smith, C., Noel, P. *Wildlife Interactions in the Chignecto Isthmus Region of Nova Scotia and New Brunswick, Canada*. The 2018 Northeastern Transportation & Wildlife Conference. UMass Amherst, Amherst, Massachusetts, US. **Poster** Sep. 2018. <https://www.netwc.org/2018-abstracts.html>
59. **Walker**, T.R., Sanam Zomorodi, Nameeta Sharma, Olubukola Adebambo, Monica Del Aguila Feijoo, Elias Elhaimer, Stuart Johnston Edwards, Courtney Morrison, Jessica Romo, Stephanie Taylor, *Environmental Effects of Marine Transportation: International Collaborative Solutions for a Global Problem*. GreenTech 2018, Vancouver, BC. **Poster** Jun. 2018.
60. **Walker**, T.R. *Drowning in Debris: Solutions for a Global Pervasive Marine Pollution Problem*. International Ocean Institute 38th annual training programme, Dalhousie University, Halifax, Nova Scotia. **Platform** May. 2018.
61. **Walker**, T.R. *Drowning in Debris: Solutions for a Global Pervasive Marine Pollution Problem*. Bay of Fundy Ecosystem Partnership 12th Science Workshop. Truro, Nova Scotia. **Keynote Platform** May. 2018.
62. Tony R. **Walker**. *Environmental Effects of Marine Transportation: Solutions for a Global Problem*. SSHRC Partnership Grant: Green Shipping, Governing Sustainability in the Maritime Supply Chain, Green Shipping CPH Partnership Meeting, Copenhagen Business School, Copenhagen, Denmark. **Platform** May 2018.
63. Alimohammadi, M., Tackley, H., Lake, C.B., Holmes, B., Davidson, K., Spooner, I.S., Jamieson, R.C., **Walker**, T.R. *Assessing Physical Characteristics of a Contaminated Sediment for Bench Scale Dewatering Purposes*. 8th International Congress on Environmental Geotechnics Hangzhou, China. Oct. 2018. <http://www.iceg2018.org/>
64. Xanthos, D., **Walker**, T.R. *International policies to reduce plastic marine pollution from single-use plastics (plastic bags and microbeads): A review*. UNEP and NOAA 2018 Sixth International Marine Debris Conference (6IMDC), San Diego, US. **Platform** Mar. 2018.
65. Xanthos, D., **Walker**, T.R. *Advancing policy and legislation changes regarding microplastics*. UNEP and NOAA 2018 Sixth International Marine Debris Conference, San Diego, US. **Session Chairs** Mar. 2018
66. **Walker**, T.R. *Our Plastic World: The Breakdown*. Environmental Studies Symposium, UPEI. Charlottetown, PE. **Keynote Platform** Mar. 2018.
67. Emily Davis, Tony R **Walker**, Michelle Adams, Rob Willis. *Improved spatiotemporal polycyclic aromatic hydrocarbon (PAH) characterization and assessment in small craft harbour sediments in Nova Scotia*. Atlantic Geoscience Society 44th Colloquium, Truro, Nova Scotia. **Platform** Feb. 2018.
68. Baillie Holmes, Kirklyn Davidson, Ian Spooner, Tony R **Walker**, Craig Lake, Dewey Dunnington. *Application of the paleolimnological method in the environmental assessment of effluent-influenced freshwater sediment: an example from northern Nova Scotia*. Science Atlantic Environment Conference 2018, Advancing Policy with Science. Mount Allison University, Sackville, New Brunswick. **Platform** Mar. 2018.

69. Baillie Holmes, Kirklyn Davidson, Ian Spooner, Tony R **Walker**, Craig Lake, Dewey Dunnington. *Application of the paleolimnological method in the environmental assessment of effluent-influenced freshwater sediment: an example from northern Nova Scotia*. Atlantic Geoscience Society 44th Colloquium, Truro, Nova Scotia. **Platform** Feb. 2018.
70. Kirklyn Davidson, Baillie Holmes, Ian Spooner, Tony R **Walker**, Craig Lake, Dewey Dunnington. *Application of the paleolimnological method in the environmental assessment of estuarine sediments in a pulp effluent receiving pond: an example from Northern Nova Scotia*. Atlantic Geoscience Society 44th Colloquium, Truro, Nova Scotia. **Platform** Feb. 2018.
71. Emily Davis, Tony R **Walker**, Michelle Adams, Rob Willis. *Improved spatiotemporal polycyclic aromatic hydrocarbon (PAH) characterization and assessment in small craft harbour sediments in Nova Scotia*. Sustainable Oceans Conference, Halifax, Nova Scotia. **Won Best Poster** Sep. 2017.
72. Sanam Zomorodi, Nameeta Sharma, Olubukola Adebambo, Monica Del Aguila Feijoo, Elias Elhaimer, Stuart Johnston Edwards, Courtney Morrison, Jessica Romo, Stephanie Taylor, Tony R. **Walker**, *Environmental effects of marine transportation: international collaborative solutions for a global problem*. Sustainable Oceans Conference, Halifax, Nova Scotia. **Poster** Sep. 2017.
73. Tony R **Walker**, Devin MacAskill. *Mass Flux and Forensic Assessment Using PAHs: Informed Remediation Decision Making at One of Canada's Most Contaminated Sites*. 10th International SedNet Conference "Sediments on the move" 14-17 June 2017 at the Palazzo San Giorgio, Genoa, Italy. **Platform** Jun. 2017.
74. Tony R **Walker**, Emma Hoffman, James Lyons, Craig Lake. *Using a Long-Term Metal Dataset to Spatio-temporally Characterize Pulp Mill Effluent Impacted Sediments to Inform Remediation Decisions*. 10th International SedNet Conference "Sediments on the move" 14-17 June 2017 at the Palazzo San Giorgio, Genoa, Italy. **Poster** Jun. 2017.
75. Jie Ma, Peter Duinker, Tony R **Walker**. *Scholar and Practitioner Views on the Quality of Science in Environmental Assessment*. IAIA17: Impact Assessment's Contribution to the Global Efforts in Addressing Climate Change. **Poster** Apr. 2017.
76. Tony R **Walker**, Devin MacAskill, Andrew Thalheimer. *Mass Flux and Forensic Assessment Using PAHs: Informed Remediation Decision Making at One of Canada's Most Contaminated Sites*. Ninth International Conference on Remediation and Management of Contaminated Sediments, New Orleans, Louisiana, January 9-12. **Poster** Jan. 2017.
77. Tony R **Walker**, Emma Hoffman, James Lyons, Cam Boxall, James: Robertson, Craig Lake. *Assessment of a Long-Term (Quarter Century) Dataset of Pulp Effluent Metals-Contaminated Sediment to Inform Remediation Decisions*. Ninth International Conference on Remediation and Management of Contaminated Sediments, New Orleans, Louisiana, January 9-12. **Poster** Jan. 2017.
78. Tony R **Walker**, Devin MacAskill, Andrew Thalheimer. *Evidence of Natural and Anthropogenic Sediment Capping: A Case Study of Environmental Recovery in Sydney Harbour, Nova Scotia*. Ninth International Conference on Remediation and Management of Contaminated Sediments, New Orleans, Louisiana, January 9-12. **Poster** Jan. 2017.
79. Emma Hoffman, James Lyons, James Boxall, Cam Robertson, Tony R **Walker**, Craig Lake. *Assessment of a Long-Term (Quarter Century) Dataset of Pulp Effluent Metals-Contaminated Sediment to Inform Remediation Decisions*. Atlantic Reclamation Conference, Halifax, Nova Scotia, November 8-10. **Platform** Nov. 2016.
80. **Walker**, T.R. *Green Marine: An environmental program to establish sustainability in marine transportation*. 1st Annual Workshop on Supply Chain and Logistics Management, "Diverse Applications", Faculty of Management, Dalhousie University, Halifax, Canada, May, 2016. **Platform**
81. **Walker**, T.R. *Mass Flux-Informed Remediation Decision Making at One of Canada's Most Polluted Sites*. May Research Day, Faculty of Management, Dalhousie University, Halifax, Canada, May, 2016. **Platform**
82. **Walker**, T.R. *Environmental Effects Monitoring in Sydney Harbour During Remediation of One of Canada's Most Polluted Sites: A Review and Lessons Learned*. Department of Oceanography, Ocean

- Seminar Series, Halifax, Canada, Mar, 2016.
http://www.dal.ca/faculty/science/oceanography/news-events/events-calendar/2016/03/22/ocean_seminar_series_tony_walker.html **Seminar**
83. Pettipas, S., **Walker**, T.R., et al. *Harbour Divestiture in Canada: Implications of Changing Governance*. The Atlantic Conference on Public Administration. Remaining Relevant: Adapting for Tomorrow. Halifax, Canada, Jan. 2016. <http://www.acpa-caap.com/home.html> **Poster**
84. **Walker**, T.R., MacAskill, N.D., Thalheimer, A., Smith, D. *Mass Flux-Informed Remediation Decision Making at One of Canada's Most Polluted Sites*. 8th Annual Atlantic Reclamation Conference, ARC 2015, Fredericton, New Brunswick, Oct. 2015. <http://atlanticclra.ca/wp-content/uploads/2015/11/Walker-et-al-Mass-Flux-Informed-Remediation.pdf> **Platform**
85. Pettipas, S., **Walker**, T.R., et al. *Harbour Divestiture in Canada: Implications of Changing Governance*. Sustainable Oceans 2015. Health Oceans, Healthy Canada. Dalhousie University, Halifax, Canada, Oct. 2015. https://soceans.wiki.dal.ca/wiki/index.php/Main_Page **Poster**
86. **Walker**, T.R. *Environmental Effects Monitoring in Sydney Harbour During Remediation of One of Canada's Most Polluted Sites: A Review and Lessons Learned*. Canada Land Reclamation Association and the Manitoba Soil Science Society Conference, Winnipeg, June 2015. **Platform**
87. **Walker**, T.R. *Environmental Effects Monitoring in Sydney Harbour During Remediation of One of Canada's Most Polluted Sites: A Review and Lessons Learned*. Bedford Institute of Oceanography, Ocean and Ecosystem Science Seminar Series, Dartmouth, Canada, May, 2015. **Seminar**
88. **Walker**, T.R. *Environmental Effects Monitoring in Sydney Harbour During Remediation of One of Canada's Most Polluted Sites: A Review and Lessons Learned*. May Research Day, Faculty of Management, Dalhousie University, Halifax, Canada, May, 2015. **Platform**
89. **Walker**, T.R. et al. *Environmental Recovery in Sydney Harbour, Nova Scotia: Evidence of Natural and Anthropogenic Sediment Capping*. 11th annual Sustainability and Environmental Research Symposium, Dalhousie University, Halifax, Canada, Mar. 2015. **Poster**
90. Young, D., **Walker**, T.R., Willis, R., Recoskie, R. *Canada-Wide Marine and Freshwater Contaminated Sediment Studies*. In: Eighth International Conference on Remediation and Management of Contaminated Sediments. New Orleans, Louisiana. Battelle. Jan. 2015. **Poster**
91. **Walker**, T.R. *Environmental Effects Monitoring in Sydney Harbour During Remediation of One of Canada's Most Polluted Sites: A Review and Lessons Learned*. Canadian Land Reclamation Association (CLRA) / Atlantic Reclamation Conference (ARC), Wolfville, Oct. 2014. <http://atlanticclra.ca/about-arc-2014/> **Platform**
92. **Walker**, T.R., et al. *Legacy contaminant bioaccumulation in rock crabs in Sydney Harbour during remediation of the Sydney Tar Ponds, Nova Scotia, Canada*. Coastal Zone Canada (CZC) 2014 International Conference: Our Coasts: Legacies and Futures, Halifax, June, 2014. <http://www.czca-azcc.org/czc-zcc2014/home.htm> **Platform**
93. **Walker**, T.R., et al. *Environmental Recovery in Sydney Harbour, Nova Scotia: Evidence of Natural and Anthropogenic Sediment Capping*. CZC 2014 International Conference: Our Coasts: Legacies and Futures, Halifax, June, 2014. <http://www.czca-azcc.org/czc-zcc2014/home.htm> **Poster**
94. **Recoskie, R.**, **Walker**, T.R., Windsor, T. *Going Off the Deep End: Characterizing Deep Sediment in the Owen Sound Harbour Applying COA Framework and Risk Assessment Principles* 2014 RPIC Federal Contaminated Sites National Workshop, Ottawa, Ontario, April, 2014. <http://www.rpic-ibic.ca/en/events/federal-contaminated-sites-fcs-national-workshop/2014-fcs-national-workshop/schedule-at-a-glance-2/schedule-at-a-glance-6#sthash.XT66seXz.dpuf> **Platform**
95. **Walker**, T.R., et al. *Environmental Recovery in Sydney Harbour, Nova Scotia: Evidence of Natural and Anthropogenic Sediment Capping*. 40th Annual Aquatic Toxicity Workshop, Moncton, New Brunswick, Canada, Oct. 2013 **Poster**
96. **Walker**, T.R., et al. *Blue mussels (*Mytilus edulis*) as bioindicators of stable water quality in Sydney Harbour during remediation of the Sydney Tar Ponds, Nova Scotia, Canada* 40th Annual Aquatic Toxicity Workshop, Moncton, New Brunswick, Canada, Oct. 2013 **Platform**

97. **Session chair** Sublethal Endpoints. 40th Annual Aquatic Toxicity Workshop, Moncton, New Brunswick, Canada, Oct. 2013
98. **Walker, T.R.** et al. *Assessing Sydney Tar Ponds Remediation and Natural Sediment Recovery in Nova Scotia, Canada*. In: Seventh International Conference on Remediation of Contaminated Sediments. Dallas, Texas. Battelle. 443 p. Feb. 2013.
<http://conferences.battelle.org/sediments/pdfs/abstractcollection.pdf> **Poster**
99. Invited speaker at the 2013 Halifax Oceans Film Festival to lead a discussion about the film documenting the Antarctic tooth-fishery in the Ross Sea, Antarctica. 'The Last Ocean'. June 2013.
<http://internationaloceaninstitute.dal.ca/FilmFest.htm> **Platform**
100. Pictou Landing First Nation (PLFN). Presentation of the results and recommendations of the community consultation and monitoring report review related to the Boat Harbour Treatment Facility, PLFN community, Feb. 2013 **Platform**
101. **Walker, T.R.**, et al. *Sediment and Water Quality Indicators: Case Study Evaluation of Remedial Activities at the Sydney Tar Ponds and Natural Recovery Rates of Sediments in Sydney Harbour, NS*. Canadian Land Reclamation Association (CLRA) / Atlantic Reclamation Conference (ARC), Sydney, Sep. 2012 <http://www.atlanticclra.ca/clra37/index.html> **Platform**
102. **Walker, T.R.** et al. *Sydney Tar Ponds Remediation Environmental Effects Monitoring - Surface Water* Canadian Land Reclamation Association (CLRA) / Atlantic Reclamation Conference (ARC), Sydney, Sep. 2012 **Platform**
103. **Walker, T.R.** et al. *Marine Environmental Effects Monitoring (EEM), Year 3 Construction Marine Environmental Effects Monitoring Program (MEEMP)*, Sydney Tar Ponds Agency (STPA), Sydney, Mar. 2012 **Platform**
104. **Walker, T.R.** et al. *Marine EEM, Results of Year 2 Construction Marine Environmental Effects Monitoring Program (MEEMP)*, STPA, Sydney, Nov. 2011 **Platform**
105. **Walker, T.R.** et al. *Environmental Effects Monitoring of remediation activities: Case study in Sydney Harbour*, RemEast2011 Site Remediation Conference, Environmental Services Association of Nova Scotia (ESANS), Jun. 2011 **Platform**
106. XXXI SCAR Open Science Conference for the themed session: 22 Climate and ecosystem changes in the Antarctic Peninsula region, Accepted poster titled, 'A rise in Antarctic global awareness can bring about increased environmental impacts from eager tourists', Buenos Aires, Argentina, Aug. 2010. Due to lack of travel funds I was unable to attend this conference
107. Invited to represent and participate in signing a letter of Agreement between the Canadian Polar Commission and the Instituto Antártico Argentino respecting the furthering of polar research between Canada and Argentina, Buenos Aires, Argentina, Aug. 2010. Due to lack of travel funds I was unable to attend this prestigious signing
108. *Is Sustainable Energy Resource Development in the Arctic Achievable?* Sustainability and Environmental Research Symposium, Dalhousie University, Mar. 2008 **Poster**
109. **Walker, T.R.** *Marine EEM, Results of Year 1 Construction MEEMP*, STPA, Sydney, 2010 **Platform**
110. **Walker, T.R.** *Marine EEM, Results of Baseline MEEMP*, STPA, Sydney, 2009 **Platform**
111. **Event Organiser** Marine Environmental Sciences Information Session, Museum of Natural History, Halifax, 2009 **Platform**
112. **Walker, T.R.** *Is Sustainable Energy Resource Development in the Arctic Achievable?* 4th Annual Sustainability and Environmental Research Symposium, Dalhousie University, Mar. 2008 **Poster**
113. Ecological Monitoring and Assessment Network (EMAN) Winnipeg, Canada, Nov. 2006 **Platform**
114. **Walker, T.R.**, et al. *Accumulation of marine debris on an intertidal beach in an urban park (Halifax Harbour, Nova Scotia)*. 22nd Eastern Canadian Symposium on Water Quality Research, Montreal, QC, Canada, Nov. 2006 **Platform**
115. Saint Mary's University, Oct. 2006 **Environmental Departmental Seminar**

116. **Walker**, T.R., et al. *Erosion rates of sediments and suspended particulate matter in Kugmallit Bay and Beaufort Sea during ice-free conditions*. 35th Annual Benthic Ecology Meeting, Quebec, QC, Canada, Mar. 2006 **Platform**
117. Dalhousie University, Department of Biology, Canada, Mar. 2006 **Departmental Seminar**
118. **Walker**, T.R., et al. *Erosion rates of sediments and suspended particulate matter in Kugmallit Bay and Beaufort Sea*. Second CASES data workshop, Winnipeg, MB, Canada, Feb. 2006 **Platform**
119. Near shore Marine Ecological Monitoring Workshop, Dartmouth, NS, Canada, Feb. 2006 **Platform**
120. Archambault, M-C., Grant, J., **Walker**, T.R., Cranford, P., Canessa, R., Mamoser, M. (2005) Management of Aquaculture Site Selection via Regional Habitat Classification: Evaluating the use of Geographic Information Systems (GIS). In: *Canadian Coastal Conference 2005*, Conférence canadienne sur le littoral, Dartmouth, NS. 2005. **Platform**
121. **Walker**, T.R., Grant, J., Hill, P.S., Cranford, P., Lintern, D.G., Scofield, B. (2005) Measuring particle dynamics in Arctic and mussel aquaculture environments. In: *Canadian Coastal Conference 2005*, Conférence canadienne sur le littoral, Dartmouth, NS. 2005. 11 pp. **Platform**
122. Lintern, D.G., Hill, P.R., Solomon, S., **Walker**, T.R., Grant, J. (2005) Erodibility, sediment strength and storm resuspension in Kugmallit Bay, Beaufort Sea. In: *Canadian Coastal Conference 2005*, Conférence canadienne sur le littoral, Dartmouth, NS. 2005. 13 pp. **Platform**
123. **Walker**, T.R., et al. *Management of Aquaculture Site Selection via Regional Habitat Classification: How Does Regional Sensor Data on Sediment Habitat Compare to Direct Sediment Sampling?* Fifth annual Aquanet scientific Conference. Victoria, BC, Canada, Oct. 2005 **Platform**
124. Archambault, M-C., Grant, J., **Walker**, T.R., et al. *Management of Aquaculture site selection via regional habitat classification: Evaluating the use of Geographic Information Systems (GIS)*. Fifth annual Aquanet scientific Conference. Victoria, BC, Canada, Oct. 2005 **Platform**
125. Dalhousie University, Department of Oceanography, Canada, Feb. 2005 **Departmental Seminar**
126. Hydro acoustic Assessment Workshop, Biosonics, Seattle, USA, Jan. 2005 **Workshop**
127. **Walker**, T.R., et al. *Measuring particle dynamics on the Mackenzie shelf*. Environmental Research Symposium, Dalhousie University. Nov. 2004. **Poster**
128. **Walker**, T.R., et al. *Measuring particle dynamics on the Mackenzie shelf*. First CASES data workshop, Montreal, Canada, Oct. 2004 **Workshop**
129. Biennial Benthic Workshop, St. Andrews Biological Station, NB, Canada, Oct. 2004
130. Carrying capacity of mussel aquaculture in Magdalen Is. Workshop, ISMER, Rimouski, QC, Sep. 2004 **Platform**
131. Bedford Institute of Oceanography, Dartmouth, NS, Canada, May 2004 **Platform**
132. Dalhousie University, Oceanography Conference, Dalhousie University, Mar. 2004, 2005, 2006, 2007 **Platform**
133. SPICE Workshop, Kola Science Centre, Apatity, Russia, Apr. 2001 **Workshop**
134. SPICE Workshop, University of Lapland, Rovaniemi, Finland, Apr. 1999, 2000 **Workshop**
135. TUNDRA Workshop, University of Lapland, Rovaniemi, Finland, Apr. 2000 **Workshop**
136. Rotary Club, Mansfield, UK, 1998, 1999 **Platform**
137. TUNDRA Workshop, University of Nottingham, Nottingham, UK, Dec. 1999 **Workshop**
138. TUNDRA Workshop, University of Utrecht, Netherlands, Dec. 1998 **Workshop**
139. Nitrogen Cycling in European Estuaries Workshop, Denmark, Oct. 1996 **Workshop**
140. Pack-Ice Seals Workshop, BAS, Cambridge, UK, Aug. 1996 **Workshop**
141. Trends in Microbial Ecology Conference, Marine Benthic Ecology, Barcelona, Spain, Sep. 1993 **Platform**
142. Antarctic Special Topic Symposium, Marine Benthic Ecology, Cambridge, UK, 1993 **Platform**

6. TEACHING, RESEARCH AND ENVIRONMENTAL MANAGEMENT CONTRACTS

6.1 Academic Contracts

- **Apr 2023 – Present - Associate Professor** (Tenured), School for Resource and Environmental Studies (SRES), Faculty of Science, Dalhousie University, Halifax, NS.
<https://www.dal.ca/faculty/science/sres.html>
- **Jul 2020 – Mar 2023 - Associate Professor** (Tenured), School for Resource and Environmental Studies (SRES), Faculty of Management, Dalhousie University, Halifax, NS.
<http://sres.management.dal.ca>
- **Jul 2019 – June 2020 - Assistant Professor** (Tenure Track), School for Resource and Environmental Studies (SRES), Faculty of Management, Dalhousie University, Halifax, NS.
<http://sres.management.dal.ca>
- **Jan 2016 – Jun 2019 - Assistant Professor** (Probationary Tenure Track), School for Resource and Environmental Studies (SRES), Faculty of Management, Dalhousie University, Halifax, NS.
<http://sres.management.dal.ca>
- **Jul 2017 – Present** - Adjunct Professor, Acadia University, Wolfville, NS.
- **Sep 2017 – Present** - Contributing Faculty member at the Centre for Water Resources Studies (CWRS), Dalhousie University, Halifax, NS.
- **Jul 2015 – Present** - Cross-listed Environmental Science Program, Dalhousie University, Halifax, NS.
- Courses taught in SRES to Master of Environmental Studies [MES] and Master of Resource and Environmental Management [MREM] students:
 - **Winter 2023** - ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* (33 students). Mean SLEQ item #7 (not available as of Apr 27) and overall (not available as of Apr 27)
 - **Winter 2023** - ENVI5050 / SUST3107 – *Communicating Sustainability* (28 students). Mean SLEQ item #7 (not available as of Apr 27) and overall (not available as of Apr 27)
 - **Fall 2022** - ENVI5511 - *Pollution Abatement: Monitoring, Mitigation and Management* (28 students). Mean SLEQ item #7 (4.85) and overall (4.79)
 - **Fall 2022** – MGMT5000 – *Management Without Borders* (100 students). Mean SLEQ item #7 (unavailable for this course) and overall (unavailable for this course)
 - **Winter 2022** - ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* (29 students). Mean SLEQ item #7 (4.57) and overall (4.71)
 - **Winter 2022** - ENVI5021 / SUST3953 / JOUR3575 – *Communicating Sustainability* (8 students). Mean SLEQ item #7 (4.00) and overall (3.86)
 - **Fall 2021** - ENVI5511 - *Pollution Abatement: Monitoring, Mitigation and Management* (20 students). Mean SLEQ item #7 (4.57) and overall (4.71)
 - **Fall 2021** – MGMT5000 – *Management Without Borders* (100 students). Mean SLEQ item #7 (unavailable for this course) and overall (unavailable for this course)
 - **Winter 2020** – MGMT1302 – *Interdisciplinary Management* (235 students). Mean SRI item #8 (4.20) and overall (4.19)
 - **Winter 2020** - ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* (29 students). Mean SRI item #8 (4.62) and overall (4.62)
 - **Fall 2019** - MGMT1301 – *Interdisciplinary Management* (297 students). Mean SRI item #8 (4.35) and overall (4.24)
 - **Fall 2019** - ENVI5511 - *Pollution Abatement: Monitoring, Mitigation and Management* (23 students). Mean SRI item #8 (4.82) and overall (4.82)
 - **Winter 2019** – MGMT1302 – *Interdisciplinary Management* (213 students). Mean SRI item #8 (4.10) and overall (4.09)
 - **Winter 2019** - ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* (28 students). Mean SRI item #8 (4.56) and overall (4.37)
 - **Fall 2018** - MGMT1301 – *Interdisciplinary Management* (289 students). Mean SRI item #8 (4.15) and overall (4.10)

- **Winter 2018** - ENVI5050 - Special topics course - *Pollution Abatement: Monitoring, Mitigation and Management* (8 students). Mean SRI item #8 (5.00) and overall (5.00)
- **Winter 2018** - ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* (26 students). Mean SRI item #8 (4.55) and overall (4.61)
- **2017/2018** - ENVI5501 - *MREM Internship* (25 students)
- **Fall 2017** - ENVI5035 - *Research Design and Methods* (18 students). Mean SRI item #8 (4.80) and overall (4.83)
- **Fall 2017** - ENVI5508 - *Project Report in Resource and Environmental Management* (24 students)
- **Winter 2017** - ENVI5050 - Special topics course - *Pollution Abatement: Monitoring, Mitigation and Management* (9 students). Mean SRI item #8 (5.00) and overall (5.00)
- **Winter 2017** - ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* (30 students) Mean SRI item #8 (4.36) and overall (4.40)
- **2016/2017** - ENVI5501 - *MREM Internship* (25 students)
- **Fall 2016** - ENVI5035 - *Research Design and Methods* (15 students). Mean SRI item #8 (4.45) and overall (4.38)
- **Fall 2016** - ENVI5508 - *Project Report in Resource and Environmental Management* (15 students). Mean SRI item #8 (4.75) and overall (4.75)
- **Winter 2016** - ENVI5050 - Special topics course - *Pollution Abatement: Monitoring, Mitigation and Management* (5 students)
- **Winter 2016** - ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* (22 students) Mean SRI item #8 (4.44) and overall (4.37), compared to department mean of 4.35
- **2015/2016** - ENVI5501 - *MREM Internship* (18 students)
- **Winter 2023** – ENVI5048 – *Directed Study* – Development of a digestion procedure and particle analysis method for microplastics from mussel and oyster tissue (Daniel Saunders)
- **Winter 2023** – ENVI5048 – *Directed Study* – Development of an efficient digestion protocol and particle analysis protocol for microplastics from lobster muscle tissue (Amber LeBlanc)
- **Winter 2023** – ENVI5048 – *Directed Study* – Defining an effective "Plastic Treaty" with global visions (Hunar Arora)
- **Fall 2022** – ENVI5048 – *Directed Study* – Metal contaminants in honeybee honey samples collected by citizen scientist in the NW of England (Jillian Shaw)
- **Fall 2019** - ENVI5048 – *Directed Study* – Review of Life Cycle Assessment of single-use plastic bags vs. paper bags (Jessica Kern)
- **Winter 2019** - ENVI5048 – *Directed Study* – Single-Use Plastics in the Canadian Food Industry: A Review (Eamonn McGuinty)
- **Winter 2019** - ENVI5048 – *Directed Study* – Coordination of Chemistry and Environmental Remediation (David Oakley)
- **Winter 2019** - ENVI5048 – *Directed Study* – Marine Transportation and Energy Use (Riley Schnurr)
- **Fall 2018** - ENVI5048 – *Directed Study* – Environmental effects of leather tanning industries along the Ganges river, India: Management and mitigation options (Meenakshi Chaudhary)
- **Winter 2018** - ENVI5048 – *Directed Study* – Review of Ecological Risk Assessment frameworks using two aquatic sites as case studies (Meaghan Quanz)
- **Winter 2018** - INFO6700 - *Reading Course* - Dalhousie Social Licensing Project (Tyler Lightfoot)
- **Fall 2017** - ENVI5048 – *Directed Study* – Technical Issues Surrounding the National Pollutant Release Inventory (Stephanie Taylor)
- **Fall 2017** - ENVI5048 – *Directed Study* – The importance of data in achieving policy outcomes in public disclosure policy regimes: A critical review of Canada's National

- Pollutant Release Inventory program as a pollution control policy tool (Stuart Johnston Edwards)
- **Fall 2017** - ENVI5048 – *Directed Study* – Review of contaminants in marine biota: Baseline assessment to inform long-term effects monitoring for remediation of industrial effluent impacted sediments in A'se'k (Jessica Romo)
 - **Summer 2017** - ENVI5048 – *Directed Study* – The Free-Roaming Horses of Alberta's Foothills: A Land Management Impasse Sanam Zomordi)
 - **Winter 2017** - ENVI5048 – *Directed Study* – Polycyclic Aromatic Hydrocarbons: Environmental Behavior and PAH Diagnostic Ratios for Source Apportionment (Emily Davis)
 - **Winter 2017** - ENVI5048 – *Directed Study* – Relative abundance and distribution of Leopard seals (*Hydrurga leptonyx*) using Antarctic tourism expedition data (citizen science) and published academic literature – Part 2 (Kristen Sora)
 - **Fall 2016** - ENVI5048 – *Directed Study* – Relative abundance and distribution of Leopard seals (*Hydrurga leptonyx*) using Antarctic tourism expedition data (citizen science) and published academic literature – Part 1 (Kristen Sora)
 - **Fall 2016** - ENVI5048 – *Directed Study* - Risk Assessment for Marine Mammals and Tidal Energy in the Minas Passage (Kareina D'Souza)
 - **Fall 2016** - ENVI5048 – *Directed Study* – Limitations of threatened species lists in Canada: A federal and provincial perspective (Katherine Dorey)
 - **Fall 2016** - ENVI5048 – *Directed Study* – Effectiveness of the National Pollutant Release Inventory as a Policy Tool to Curb Atmospheric Industrial Emissions in Canada (Sarah Gulas)
 - **Summer 2016** - ENVI5048 – *Directed Study* - Review of global policies as a mitigative strategy to reduce microplastic pollution in the marine environment (Dirk Xanthos)
 - **Winter 2016** - ENVI5048 – *Directed Study* - Climate Change guidance in provincial and federal Environment Impact Assessments (EIAs) (Sarah Vermeulen)
 - **Winter 2016** - ENVI5048 – *Directed Study* - Review of pulp and paper VOCs air toxic exposures in Nova Scotia (Emma Hoffman)
 - **Winter 2023** - Co-supervised MREM Case Study group projects:
 - Halifax as a "Bee City Canada" City: Opportunities and challenges (Kimberley Jones, Julia Michalski, Sugeet Miglani, Yuge Wang, Jillian Ramsay)
 - The Fate of Plastic-Streamed Recyclables in NS (Hunar Arora, Sohini Gadhvi, Hanah Dhanani, Mercy Fiamavle, Shawn Innocent)
 - The future of Nova Scotia's Beef Sector in a Climate Constrained World (Payton Truyens, Samuel MacDougall, Patrick James, Sarah Donovan, Emma Brooks)
 - Large-Scale Renewable Energy Development in NS for Hydrogen Fuel Export to Europe (Eyum Adode, Juli Bishwokarma, Sarah Landry, Mir Sultan, Annie Abedi)
 - Managing Capture Fisheries to Limit Atlantic Right Whale Mortality (Sian Borden, Meghan Knickle, Brianna Bowes, Mary Olivella, Makayla Carnevale)
 - Conservation and Recovery of the Globally Endangered Atlantic Whitefish (Katherine Dalby, Justine Duncalfe, Nicole MacDonell, Sophi Newcombe, Sara Lax)
 - **Winter 2022** - Co-supervised MREM Case Study group projects:
 - American Eel Status and Fishery Management in Nova Scotia (Benjamin MacNeill, Priyam Kalavadia, Sarah McLean, Lexi Fequet)
 - Urban Nature and Infrastructure in the Face of Increasing Storm Events (Eric Thurston, Polly Nguyen, Samantha Suppanz)
 - Getting Nova Scotia Off Coal-fired Electricity Generation by 2030 (Anna Murphy, Amelia Peres, Evan Casper, George Quinn)
 - Cooke's Proposed Expansion of Open-water Finfish Aquaculture Pens in Nova Scotia (Cuun Niesink, Colleen Hutchison, Patrick Sutton, Haleema Tahir)

- Northern Pulp's Proposed Reopening in Nova Scotia (Revant Sharan, Cole Vail, Meggie Chamandy, Jillian Shaw)
- **Winter 2020** - Co-supervised MREM Case Study group projects:
 - Protected areas in NS: managing for different uses and values (Madeleine Chauvin, Drew Decoste, Shannon Hicks, Manisha Singh)
 - What's in store for critically endangered North Atlantic Right Whale in 2020? (Sara Boyd, Greg English, Shen Molloy, Katie McGuire)
 - Accelerating the decarbonization of the electricity sector in Atlantic Canada (Sydney Adamson, Olivia Giansante-Torres, Claire Hughson, Cali Kehoe, Ash Taba)
 - Government biodiversity management on private lands in Nova Scotia (Brittany Bonapace, Alex Johnston, Charlotte Large, Anna Williams)
 - Will NS Bill 152 adequately address plastic pollution in the province? (Megan Fuller, Abhimanyu Jain, Georgia Konstantinidis, Reg Manzer, Dorothy Okene)
 - Shellfish harvesting in NS and the persistent threat of sewage pollution (Angus Doane, Lyndsay Eichinger, Nathan Hoffman, Jessica Hum, Jacobo Torres)
- **Winter 2019** - Co-supervised MREM Case Study group projects:
 - Renewables, Environmental Justice and Nova Scotia (Connor Cepella, Vijaya Lakshmi, MJ Valiquette, Damian Mosher, James Aksenчук)
 - The Cogswell District Redevelopment Project (Freddie Jacks, Julietta Sorensen Kass, Iliana Irons, Medha Malviya)
 - Status of species at risk protection in Nova Scotia (Thomas Sweeney, Megan Pagniello, Nick Baker, Kyle Doucette)
 - Microplastics and shellfish in Nova Scotia (Erin Dann, Jessica Kern, Marina Daoud)
 - The future of natural gas in Nova Scotia (Sam Donaldson, Dan Chacko, Victoria Sandre, Jessica Lockyer, Benjamin John)
 - A Multi-Dimensional Assessment of Coastal Retreat Due to Sea Level Rise in Nova Scotia (Eamonn McGuinty, Matt Brennan, Erica Gillis, Jamie Smyth)
- **Winter 2018** - Co-supervised MREM Case Study group projects:
 - North Atlantic right whale mortalities in the Gulf of St. Lawrence (4 students)
 - Environmental Racism: Living next to a landfill in Shelburne, NS (4 students)
 - Siting instream tidal in coastal NS (4 students)
 - The future of Nova Scotia's offshore oil and gas industry (4 students)
 - Climate change and NS Aboriginal fisheries (4 students)
 - NS First Nations and marine protected areas (4 students)
- **Winter 2017** - Co-supervised MREM Case Study group projects:
 - Implementing a federal carbon price in Nova Scotia (4 students)
 - Blue-Mountain Birch Cove wilderness protection (4 students)
 - Conservation and sustainability of Atlantic salmon in Maritimes (5 students)
 - Future of aquaculture in NS (5 students)
 - Implementing federal government coal phase-out in NS (4 students)
 - Green network planning in HRM (4 students)
- **Winter 2016** - Co-supervised MREM Case Study group projects:
 - Climate Change Adaptation in Nova Scotia Coastal Zones (Mitchell Downton, Kareina D'Souza, Sarah Vermeulen)
 - Food Waste in Nova Scotia: extent, scale, and opportunities (Mhari Lemak, Haven Lerbecki, Lisa Ratte, Kelsey Williams)
 - Private Land Conservation in Nova Scotia (Katherine Dorey, Chace Elliot, Sarah Gulas, Brynn Roach, Sarah Sherwood)
 - Bluefin Tuna High-grading in Canadian Waters (Vanessesa Mitchell, Candace Nickerson, Kelsey Hayden, Natalie Secan, Yifei Yang)

- **2022/2023 - MREM Academic Internship and Final Project Report Adviser**
 - Hunar Arora – Divert NS – Project TBD
 - Mercy Fiamavle – Strum Consulting – Project TBD
 - Brianna Bowes – Hope for Wildlife – Project TBD
 - Sugeet Miglani – WWF-Canada – Project TBD
 - Meghan Knickle - ECCC
- **2021/2022 - MREM Academic Internship and Final Project Report Adviser**
 - Priyam Kalavadia - The Legacy of Burn Pit Operations During the Post-2001 Iraq and Afghanistan Conflicts An Introspective into Wartime Environmental Governance
 - Benjamin MacNeill - Two Birds, One Stone Age: An Assessment on Archaic Regulatory Standards for Breeding Bird Surveys in Nova Scotia
 - George Quinn - Water quality monitoring in lakes within Halifax Regional Municipality
 - Lexi Fequet - The unsustainable plastic (microplastics) industry
- **2020/2021 - MREM Academic Internship and Final Project Report Adviser**
 - Patrick Reid – Trends and Developments in Environment and Climate Change Canada’s EcoAction Community Funding Program – A Gap Analysis
 - Juan Chavez Carera – Risk Communication in Chemicals Management
 - Maricio Lopez – Cost-Benefits Analysis of Noise Abatement Measures in the Port of Halifax, Nova Scotia
 - John Carey – Petroleum Activities Regulation in Ecologically Sensitive Areas: Are Current Measures Evidence-Based?
- **2019/2020 - MREM Academic Internship and Final Project Report Adviser**
 - Lyndsay Eichinger – Fall Bat Survey for a Potential Wind Farm in NS
 - Megan Fuller – Wastewater Systems Effluent Regulations (WSER): What they mean for First Nations communities and the Atlantic First Nations Water Authority
 - Claire Hughson – An Investigation into Ontario’s Management of Decommissioned Metal Mines, Best Practices, and Environmental Policy: Expectations vs. Reality
 - Dorothy Okene – The Wellbeing of Regenerative Graziers: A look into Canadian-beef farmers
- **2018/2019 - MREM Academic Internship and Final Project Report Adviser**
 - Dan Chacko – Canadian LNG snapshot and potential for LNG trade
 - Samuel Donaldson – Maintaining Water Quality from Catchment to Consumer: A Data Driven Comparison of Flushing Methods
 - Matthew Brennan – Establishing Parameters for Water Main Flushing Programs to Maintain High Quality Drinking Water
 - Farrah Stevens – Participated in the DFO Maritimes and Mi’kmaq of Nova Scotia Aboriginal Internship Program
- **2017/2018 - MREM Academic Internship and Final Project Report Adviser**
 - Riley Schnurr - Plastics as a people’s problem: an analysis of the marine plastic pollution issue and the non-legislative interventions that fight it
 - Dana Mears - Indigenous women and water resource management
 - Marcia Piorier - Blue-Green Algae in Drinking Water
 - Vanessa Alboiu - The Federal Environmental Petitions Process as a Tool to Highlight Resource Management Issues: Effective Engagement to Promote the Process
 - Kristyn Lyons - Forage fish in eastern Canada: current management and the transition to ecosystem-based fisheries management
 - Madison Leggat - Socio-economic impacts of Invasive Species in Ontario
- **2016/2017 - MREM Academic Internship and Final Project Report Adviser**
 - Jessica Romo - Jumping the Regulatory Hurdles for the Cleanup of Boat Harbour
 - Sanam Zomorodi - Predator Friendly Farming in Alberta: From elimination to coexistence with coyotes

- Nameeta Sharma - A Gap Analysis and Assessment of Canada's Premier Climate Change Document: The Pan Canadian framework
- Stuart Johnston Edwards - Best environmental management practices of commercial firms
- Roan Corbett - Treaty Rights Assessment
- Kristen Sora - Footpaths and ATV Trails at Duncans Cove
- **2015/2016 - MREM Academic Internship and Final Project Report Adviser**
 - Brynn Roach - Wildlife Management Across Borders: The role and extent of integrated migratory bird conservation in the Americas
 - Mitchell Downton - Recommendations for Improving Wetland Compensation in Nova Scotia: Investigating wetland significance and function for the basis of reclamation
 - Katherine Dorey - Testing Efficacy of Bird Deterrents for Use at Wind Energy Facilities
 - Kariena D'Souza - Improving the Effectiveness of Marine Protected Area Management in Canada
 - Sarah Gulas - Opportunities for Stakeholder Consultation Moving Forward on Marine Renewable Energy Development in Nova Scotia
 - Natalie Secan – Making Sense of 311 Call Data to Learn About Halifax's Urban Forest

Aug 2014 – Dec 2015 - Assistant Professor (Limited Term Appointment), School for Resource and Environmental Studies (SRES), Faculty of Management, Dalhousie University, Halifax, NS.

<http://sres.management.dal.ca>

- Courses taught across four-degree programs in SRES (Master of Environmental Studies [MES], Master of Resource and Environmental Management [MREM], Bachelor of Management and International Development Studies Master's program [IDS MA]):
 - **2015/2016** - ENVI5501 - *MREM Internship* (21 students)
 - **Fall 2015** - ENVI5035 - *Research Design and Methods* (13 students). Mean SRI item #8 (4.78) and overall (4.78), compared to department mean of 4.56
 - **Fall 2015** - ENVI5508 - *Project Report in Resource and Environmental Management* (26 students)
 - **Fall 2015** - ENVI5048 – *Directed Study - Aquatic Monitoring in Canada post CEEA 2012* (Brynn Roach)
 - **Fall 2015** - ENVI5048 – *Directed Study - Policy Framework to Address Microplastic Contamination in the Ocean* (Shauna Pettipas)
 - **Fall 2015** - ENVI5048 – *Directed Study - Policy Framework to Address Macroplastic Contamination in the Ocean* (Meaghan Bernier)
 - **Winter 2015** - ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* (26 students). Mean SRI item #8 (4.93) and overall (4.93), compared to department mean of 4.56
 - **Winter 2015** - MGMT2702 - *Resource and Environmental Management* (135 students)
 - **Winter 2015** - ENVI5050 - Special topics course - *Pollution Abatement: Monitoring, Mitigation and Management* (9 students)
 - **Winter 2015** - ENVI5048 – *Directed Study - Adaptive Management Approaches to Bird and Bat Monitoring for Industrial Wind Turbine Development in Canada* (Jason Parise)
 - **2014/2015** - ENVI5501 - *MREM Internship* (26 students)
 - **Fall 2014** - ENVI5035 / INTD5002 - *Research Design and Methods* (9 students). Mean SRI item #8 (4.71) and overall (4.73), compared to department mean of 4.36
 - **Fall 2014** - ENVI5508 - *Project Report in Resource and Environmental Management* (27 students)
- **Winter 2015** - Co-supervised MREM Case Study group projects:
 - Rural Nova Scotia: Now and Moving Forward (Alexandra Denis, Jiawei Gao, Allison Kader, Carlisle Kent, Sarah Rosenblat)

- Fuelling Change: Poop for Power (Jordan Bell, Meagan Bernier, Rebecca Zimmerman, Brenden Blotnicky, Teresa Burkart)
- Salt Cavern Natural Gas Storage in Nova Scotia (Afolabi Opanubi, Shauna Pettipas, Lee Pominville)
- Implementing a Carbon Tax in Nova Scotia (Madeline Lawler, Stephanie Maasik, Caytlyn McFadden, Dirk Xanthos)
- Mink Farming in Nova Scotia (Jasmin Chen, Emma Hoffman, Carolyn Stevens, Katherine Witherspoon, Angie Lynch)
- Building Prosperity – Shipbuilding in Halifax (David Foster, Jeffrey Janes, Theresa McGuire)
- Advised students in MREM internships and MES projects
- Engaged in School-level administrative work
- **2014/2015 - MREM Academic (Internship) Adviser**
 - Alexandra Denis – Environmental Assessment Summer Student, Environmental Assessment Branch, Nova Scotia Environment
 - Afolabi Opanubi – Archaeological Field Assistant, Cultural Resource Management
 - Jeffery Janes – Environmental Scientist, Stantec
 - Shauna Pettipas – Environmental Scientist, Dillon Consulting Limited
 - Brenden Blotnicky – Program Coordinator, Summerhill
 - Jiawei Gao – Research Assistant, Coastal Management for Local Municipalities, Ecology Action Centre
- **2015 - Academic Advisor for MREM Final Project Reports**
 - Alexandra Denis – Aboriginal Consultation in Environmental Assessment
 - Afolabi Opanubi – Archaeological and Cultural Resource Management in Environmental Assessment
 - Jeffery Janes – Federal Department Harmonization of CEAA 2012 Review Documentation
 - Shauna Pettipas – Contaminated Site Regulatory Requirements in Nova Scotia
 - Brenden Blotnicky – The Role of Social Media in Energy Efficiency Programs
 - Jiawei Gao – Coastal Management Preparedness for Local Municipalities
 - Sarah Vermeulen – Management of Landfill Sites in Ontario
- **2014 - Academic Advisor for MREM Final Project Reports**
 - Karine Duffy - Applying the Open Standards for the Practice of Conservation within Species at Risk in Canada using Miradi™: An Adaptive Management Tool
 - Keegan Balcom - Sustainability Opportunities of 14 Wing Greenwood
 - Madeleine Crowell - Diverting CFLs: Extended producer responsibility in Nova Scotia's solid waste management strategy
 - Shajini Jeganmohan - Transportation Planning in Nova Scotia: the case of highway development and compensation
 - Jason Parise - Wind Development in Canada: Public perceptions, setbacks and future development
 - Jessica Hiltz - Linear Infrastructure and Environmental Conditions: Analysis of National Energy Board decisions and future direction

2011-2013 - Sessional Professor, School for Resource and Environmental Studies (SRES), Faculty of Management, Dalhousie University, Halifax, NS. <http://sres.management.dal.ca>

- Courses taught in SRES (Master of Resource and Environmental Management [MREM]):
 - **Winter 2013** - ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* (33 students). Mean SRI item #8 (4.23) and overall (4.26)
 - **Winter 2012** - ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* (22 students). Mean SRI item #8 (4.80) and overall (4.70)

- **Winter 2011** - ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* (27 students). Mean SRI item #8 (4.20) and overall (4.40)
- **Winter 2013** - Co-supervised MREM Case Study group projects:
 - Grey seal cull in the southern Gulf of St Lawrence (Yue Liu, Danielle Horne, Kristin Rostad, Chen Shi)
 - Expansion of salmon farming on the Eastern Shore of Nova Scotia (Karen R Devitt, Vanja Avdic, Scott Biggar, Robin McCullough, Kathlynn Paroschy)
 - The expansion of oil and gas exploration and production from Nova Scotia's offshore (Victoria Ball, Rory Henderson, Krista Johnson, Sophia Onu, Alana Vigna)
 - The Miller Lake Quarry: An Integrated Analysis (Mathew Davis, Kimberley, Dunn, Jonathan Smith, Davin St Pierre, David Wilson)
 - The Management of Arsenic in Nova Scotia Groundwater (Kristen MacNeil, Catherine Hart, Saloni, Salaria, Naina Ummat, Elizabeth Weber, Jillian Woods)
 - The opportunity and challenges of Community Forests on public lands in NS (Katherine Ashbourne, Danica Crystal, Katelyn Perfitt, Danielle St. Louis, Evelien VanderKloet)
- **Winter 2012** - Co-supervised MREM Case Study group projects:
 - Sydney Tar Ponds Remediation and Sydney Harbour Dredging (Fiona Clifford, Meagan E Dunstan, Julia Kun, James Pat O'Reilly)
 - Addressing the Wreck of the *MV Miner* (Yue Yao, Dianne Connors, Leo Kris MacLellan, Julie Sylvestre)
 - Tidal In-Stream Energy Conversion Technology in the Bay of Fundy: A Case Study (Sarah S Giles, Kathryn Palmer, Dominique, Saheed, Ziyun Wang)
 - Enhanced natural gas recovery through hydraulic fracturing in Nova Scotia (Allison R Grant, Andrew Pye, Michael Petrosoniak, Lou Kamermans, Erika Perrier)
 - Management of biosolids in Nova Scotia (Devon Carter, Kathleen M Dimmer, Theresa L Heinekey, Joanna Van Dorp)
 - Rain Gardening: Neighbors Helping Neighbors to Improve Water Quality While Building Social Capital (Emily LeGrand)
- **Winter 2011** - Co-supervised several MREM Case Study group projects:
 - Proposed open-net salmon Farm in St. Mary's Bay, Nova Scotia (Gillian Harrison, Sheila Lucas, Brittany MacGillivray, Sarah Weston, Zena Wright)
 - Coyote Issue in Nova Scotia (Melanie MacDonald, Scott Dickey, Anne Audouin, Bryan Adkins, John Sommerville)
 - Food Security (Alain Belliveau, Erin Burbidge, Justin Cantafio, Nevena Gazibara)
 - First Nations and Potable Water in Nova Scotia (Andrew Stanger, Ian Levitt, Stephen Roberts, Kaitlin Lay, Jillian Baker, Katie McLean)
 - An Analysis of the Progression of Forest Biomass to Energy in Nova Scotia (Masatsugu Hayashi, Colin Jeffrey, Darryl MacKenzie, Leanna Trefry, Christie Verstraten)

Table 1. Summary of SRI (SLEQ after 2021) scores as an Associate Professor, a tenure-track Assistant Professor, probationary tenure-track and limited term appointment Assistant Professor, and sessional instructor.

Course	Term / Year	Number of Students	Required (R) / Elective (E)	Mean SRI item #8 Score (Tony Walker)	Mean SRI item #8 Score (School)	Mean SRI item #8 Score (FoM)	Mean SRI or SLEQ* overall Score (Tony Walker)	Mean SRI or SLEQ* overall Score (School)	Mean SRI or SLEQ* overall Score (FoM)
ENVI 5505	Winter / 2023	33	R						
	Winter / 2022	22	R				4.79	4.40	4.07
	Winter / 2020	29	R	4.62	4.06	4.18	4.62	4.27	4.09
	Winter / 2019	28	R	4.56	4.54	4.18	4.37	4.45	4.17
	Winter / 2018	26	R	4.55	4.07	4.07	4.61	4.14	4.11
	Winter / 2017	30	R	4.36	4.41	4.11	4.40	4.40	4.14
	Winter / 2016	21	R	4.44	4.40	4.02	4.37	4.35	4.05
	Winter / 2015	26	R	4.93	4.57		4.93	4.56	
	Winter / 2013	33	R	4.23	4.02		4.26	4.14	
	Winter / 2012	22	R	4.80	4.20		4.70	4.20	
	Winter / 2011	27	R	4.20	4.20		4.40	4.20	
ENVI 5035	Fall / 2017	18	R	4.80	4.38	4.06	4.83	4.42	4.10
	Fall / 2016	15	R	4.45	4.52	4.11	4.38	4.50	4.13
	Fall / 2015	13	R	4.78	4.44	3.96	4.78	4.46	3.99
	Fall / 2014	9	R	4.71	4.32		4.73	4.36	
ENVI 5011 (2019-) ENVI 5050	Fall / 2022	28	E				4.79	4.70	4.15
	Fall / 2021	20	E				4.71	4.52	3.99
	Fall / 2019	23	E	4.82	4.28	4.09	4.82	4.26	4.10
	Winter / 2018	8	E	5.00	4.07	4.07	5.00	4.14	4.11
	Winter / 2017	9	E	5.00	4.41	4.11	5.00	4.40	4.14
	Winter / 2015	9	E						
ENVI 5508	Fall / 2017	24	R						
	Fall / 2016	21	R	4.75	4.52	4.11	4.75	4.50	4.13
	Fall / 2015	26	R						
	Fall / 2014	25	R						
ENVI 5052	Winter / 2022	8	E				3.86	4.40	4.07
MGMT 1302	Winter / 2020	235	R	4.20		4.06	4.19		4.09
	Winter / 2019	213	R	4.10		4.18	4.09		4.17
MGMT 1301	Fall / 2019	297	R	4.35		4.08	4.24		4.09
	Fall / 2018	289	R	4.15		4.04	4.10		4.05
MGMT 2702	Winter / 2015	129	R	3.59	3.83		3.48	3.88	
MGMT 5000	Fall / 2022	100	R						

	Fall / 2021	96	R						
	Rolling Means			4.52	4.29	4.09	4.51	4.34	4.10

Key: Course numbers and course titles taught in the School for Resource and Environmental Studies and Faculty of Management:

ENVI 5505 Biophysical Dimensions of Resource and Environmental Management

ENVI 5035 Research Design and Methods

ENVI 5050 (now 5011) Special Topics - Pollution Abatement: Monitoring, Mitigation and Management

ENVI 5508 MREM Report

ENVI 5052 Communicating Sustainability

MGMT 1301 Interdisciplinary Management I

MGMT 1302 Interdisciplinary Management II

MGMT 2702 Resource and Environmental Management

MGMT 5000 Management Without Borders (MWB)

* SLEQ scores are highlighted in dark grey rows. Dalhousie University Senate voted on Monday November 22nd, 2021 to suspend inclusion of these questions from the Student Learning Experience Questionnaire (SLEQ) for the 2021-2022 academic year. Question 8 was removed: Students will no longer be asked if overall their instructor was effective. This was replaced by a composite or overall mean of the other 7 questions on the SLEQ reports.

2003-2006 - NSERC Post-Doctoral Research Fellow (PDF), Dalhousie University, Department of Oceanography <http://oceanography.dal.ca/index.html>

- Funded by two PDF grants:
 - Aquaculture site and coastal zone planning funded by Atlantic Canada Opportunities Agency (ACOA) and Canada's Research Network in Aquaculture (AquaNet) (4 papers).
 - Canadian Arctic Shelves Exchange Study (CASES) funded by Natural Sciences and Engineering Research Council of Canada (NSERC) (6 papers).
- Gained teaching experience in the Department of Oceanography teaching classes in the *Environmental Impacts in Marine Ecosystems* course (OCEA4335.03 / 5335.03).
- Studied mussel aquaculture site and coastal zone planning in the Maritimes as part of the co-funded ACOA and AquaNet project collaborating with Dr. Jon Grant. Worked in close partnership with the federal DFO, the provincial NSDFA, and AquaNet, to take a broader ecosystem-oriented view of the aquaculture environmental assessment system using spatial analysis. The study also used Global Information System (GIS) data and mapping software to enable better interpretation of the data. During this research, I also studied marine benthic impacts associated with aquaculture developments. Helped co-write research grant applications which were successfully co-funded by ACOA and AquaNet.
- Studied river-ocean coupling in the Mackenzie River Delta and Beaufort Sea, as part of the CASES project collaborating with Dr. Jon Grant and Dr. Paul Hill (Dalhousie University). This research included three field campaigns in the Canadian Arctic including: research cruise on the Canadian Coast Guard icebreaker *Amundsen* sailing through the Northwest passage to stations in the Beaufort Sea; summer shore-based field study based in Tuktoyaktuk, NT using small boats in the Mackenzie Delta; and a spring survey in the Mackenzie Delta to deploy equipment under landfast ice. Developed collaborations with government and national and international university partners (e.g., Bedford Institute of Oceanography, Geological Survey of Canada and Université du Québec à Rimouski) demonstrated by my strong publication record. Specific marine affairs related to this Arctic research project included:
 - Anthropogenic pollution of oil and gas developments in the Arctic marine environment, which will be particularly vulnerable under predicted climate change scenarios, where

resource developments in the Arctic may cause significant impacts to the environment and Arctic communities

- Coastal and sediment erosion in the Arctic and impacts to Inuvialuit indigenous people
- Impacts of climate change on sea-ice extent and duration

1998-2003 - Research Assistant, University of Nottingham, Division of Agricultural and Environmental Sciences, UK <http://www.nottingham.ac.uk/biosciences/ah/>

- My doctorate research was funded by two European Union (EU) projects, 'Tundra degradation in the Russian Arctic', (TUNDRA) and 'Sustainable Pechora In a Changing Environment and Society', (SPICE). The focus of this research was to investigate pollution impacts from non-renewable energy resource industries, such as, coal, oil and gas in the Russian Arctic through environmental assessment of snow, lichen and soil chemistry and lichen biodiversity as indicators of pollution.
- Principle author on ten peer reviewed papers on this research, including two interdisciplinary papers integrating results of the TUNDRA and SPICE projects.
- This research was coupled with other interdisciplinary studies comparing quantitative results of biophysical sciences with social science results of local people's perceptions of pollution impacts. Pollution, climate change and Arctic issues were compiled in conjunction with Nenets traditional environmental knowledge (see Walker et al., 2006. Perceived and measured levels of environmental pollution: interdisciplinary research in the subarctic lowlands of northeast European Russian. *Ambio* 35: 220-228).
- These were interdisciplinary research projects collaborating with the Max Planck Institute for Social Anthropology, Germany; Finnish Forest Research Institute, University of Oulu and University of Helsinki, Finland; University College London, UK; Stockholm University, Sweden; Russian Academy of Sciences, Russian Federation; and the University of Aberdeen, UK (11 papers).

1996-1997 - Research Officer, University of Essex, Department of Biology, UK <http://www.essex.ac.uk/>

- Research project on 'Nitrogen Cycling In European estuaries', (NICE) collaborating with European universities. NICE was funded by the EU under the framework of MAST III (Marine Science and Technology III) and ELOISE (European Land-Ocean Interaction Studies). The NICE project studied the fate of anthropogenic nitrogen discharged into estuaries and coastal waters. Removal of nitrogen in coastal waters was quantified to evaluate how much nitrogen is transported from land to the sea. The importance of benthic primary producers, tidal amplitude and climate on nitrogen cycling was investigated.
- This was an interdisciplinary research project collaborating with University of Aarhus and National Environmental Research Institute, Denmark; University of Lisbon, Portugal; University of Gothenburg, Sweden; and the University of Parma, Italy.

1993-1996 - Zoological Assistant, British Antarctic Survey (BAS), UK (<http://www.antarctica.ac.uk/>)

- Conducted ecological research on higher predators (marine mammals and seabirds) using satellite tracking, radio telemetry and dive recorders to yield information about population dynamics arising from environmental change and over fishing of marine resources in the Southern Ocean whilst on Bird Island, South Georgia, Antarctica.
- Much of this research and long-term environmental monitoring data of marine mammals and seabirds provided ecosystem indicators in the Antarctic to help better understand and manage fisheries to conserve the Antarctic marine ecosystem. Collection of this marine data helped in the practical implementation of the Convention on the Conservation of Antarctic Marine Living Resources (CCAMLR). The BAS carries out Long Term Monitoring and Survey (LTMS) work to measure changes in Antarctic ecosystems and carry out research on the processes that drive them. Marine predators are thought to be sensitive to changes in ecosystem properties including changes

brought about by natural ecosystem processes (such as climate variability), and those brought about by humans (such as fishing). Monitoring breeding populations of seabirds and seals are therefore an important part of the BAS LTMS programme.

- Research on Antarctic ecosystem sustainability arising from impacts of Antarctic tourism and overfishing in the Southern Ocean.
- Station manager at the Antarctic base on Bird Island, South Georgia.

1990-1993 - Research Officer, University of Essex, Department of Biology, UK

<http://www.essex.ac.uk/>

- This marine research was published in six peer reviewed papers and formed part of my Master of Philosophy (MPhil) degree which comprised a study of the benthic microbial ecology of Antarctic coastal sediments.
- Developed annual budgets of marine carbon and nutrient cycles in Antarctic coastal sediments via measurements of organic carbon mineralization, organic carbon deposition, bioturbation of benthic infauna and nutrient cycling in marine sediments during 18 months on Signy Island, Antarctica collaborating with the BAS.

6.2 Non-Academic Contracts

2021 – Nova Scotia Lands Inc. Expert Technical Advisor, Government of Nova Scotia, Nova Scotia Lands Inc.

- Providing expert technical advice to Nova Scotia Lands Inc. for the Boat Harbour Remediation Project, specifically related to regulatory comments on the Environmental Impact Statement (EIS) report and for ongoing environmental effects monitoring (EEM).

2020 - Canadian Expert Technical Assistance, Canadian Embassy and Government of Vietnam

- Canadian expert technical assistance to the Vietnam Administration of Seas and Islands (VASI), Ministry of Natural Resources and Environment (MONRE), Government of Vietnam, on the development of a national database to track marine debris, specifically plastic litter.

2007-2014 - Associate / Senior Environmental Scientist, Dillon Consulting Limited

<http://www.dillon.ca/> (maintain professional practice as an *Interim Employee*)

- Lead and project manager for all marine environmental services for a range of public and private sector clients across all national office locations (18 offices) for Dillon Consulting Limited. Below are some examples of projects for which I was project manager (PM) or technical lead.
- **Beaufort Regional Environmental Assessment Cumulative Effects Management Framework – Aboriginal Affairs and Northern Development Canada (AANDC)** Project Manager and technical lead subcontracting to AMEC Environmental and Infrastructure to develop a comprehensive regionally-based Cumulative Effects Management (CEM) Framework to meet needs of the Beaufort Regional Environmental Assessment (BREA) working group. Project provided consistency in approaches for project assessments in the Canadian Beaufort Sea.
- **Environmental Impact Assessments for Maritime Transmission Link - Emera Newfoundland and Labrador** Project Manager for fish assessment and fish habitat study in Nova Scotia related to development of the Maritime Transmission Link corridor on behalf of Emera Newfoundland and Labrador (ENL). Results of this study became a component for the Environmental Impact Assessment for the Maritime Transmission Link project.
- **Environmental Effects Monitoring in Sydney Harbour - Sydney Tar Ponds Agency** Senior marine scientist leading a five-year \$4.1 million marine Environmental Effects Monitoring (EEM) program in Sydney Harbour, NS on behalf of the Sydney Tar Ponds Agency (STPA). Developed and implemented marine EEM for marine water and sediment chemical quality parameters, sediment toxicity testing, crab and mussel tissue chemical testing and condition indices, benthic invertebrate

and intertidal surveys over the five-year period in order to monitor compliance of the Sydney Tar Ponds remediation project. Project complexity and high profile attracted media and stakeholder attention. My duties involved regular update presentations to federal and provincial regulators and the Environmental Management Committee (EMC). Results were published in 8 publications in *Environmental Pollution* (1 paper), *Environmental Monitoring and Assessment* (2 papers), *Marine Pollution Bulletin* (2 papers), *Water Quality Research Journal of Canada* (1 paper) and *Remediation* journal (2 papers).

- ***Environmental Impact Assessment for liquid natural gas terminal, power generation plant, and power transmission line, El Salvador*** Senior environmental lead for biophysical baseline inventories for an Environmental Impact Assessment for a \$1 billion project for the construction of a liquid natural gas marine terminal and power generation plant in Acajutla, and the construction of a 50 km power transmission line to connect with main transmission network within El Salvador. Project was complex and involved extensive public consultation and environmental planning with funding from the International Finance Corporation (IFC), the World Bank, Wärtsilä, Finland and Energo del Pacifico, El Salvador.
- ***Environmental Effects and Compliance Monitoring Program - QMX Gold Corporation, Manitoba*** Senior environmental scientist and project manager leading annual Environmental Effects and Compliance Monitoring Program at the Snow Lake Gold Mine, Manitoba.
- ***Water Quality Monitoring in Sydney Harbour - Public Works and Government Services Canada (PWGSC)*** Senior marine scientist and project manager leading the marine water quality monitoring program in Sydney Harbour for a \$35 million harbour channel dredging project to accommodate post-Panamex container ships for a new container terminal at Sydport on behalf of Public Works and Government Services Canada (PWGSC).
- ***Development of a CEAA Environmental Review Form for Halifax Port Authority under new CEAA 2012 regulations*** Project manager and senior technical advisor for Halifax Port Authority. Historically, under the Canada Port Authority Environment Assessment Regulations made pursuant to the *Canadian Environmental Assessment Act* (CEAA), Halifax Port Authority was required to conduct environmental screening assessments for proposed projects on Halifax Port Authority property. On July 6, 2012 the *Canadian Environmental Assessment Act, 2012* ('CEAA 2012' or 'the Act') came into force. Now Halifax Port Authority is required by Section 67 to determine whether projects on federal (Port) lands are likely to cause significant adverse environmental effects. I developed a framework (review form) for them to carry out their projects in accordance with CEAA 2012 regulations.
- ***Dredge Disposal Options for Small Craft Harbours, NS - Department of Fisheries and Oceans and PWGSC*** Senior marine scientist for PWGSC to develop site specific dredge disposal options for Small Craft Harbours in NS. Dredge disposal options were developed through consultation with provincial Nova Scotia Environment (NSE) and federal regulators (e.g., Environment Canada, EC), as well as Department of Fisheries and Oceans - Small Craft Harbours (DFO-SCH) managers throughout the Atlantic region. Results were published in the *Remediation* journal (1 paper).
- ***Ecological Risk Assessment and Sediment Sampling in Sydney Harbour - PWGSC on behalf of Transport Canada*** Senior marine scientist leading sediment sampling and ecological risk studies in Sydney Harbour. Transport Canada is divesting ownership of the harbour and studies were conducted to determine if unacceptable risks exist for marine organisms within the harbour. Results were published in *Soil and Sediment Contamination* (1 paper).
- ***Ecological Risk Assessment and Sediment Sampling in Quidi Vidi Harbour - PWGSC on behalf of Transport Canada*** Marine scientist leading sediment sampling and ecological risk studies in Quidi Vidi Harbour. Transport Canada is divesting ownership of the harbour and studies were conducted to determine if unacceptable risks exist for marine organisms within the harbour. ***Sediment Sampling in Digby Harbour - PWGSC on behalf of Transport Canada*** Marine scientist leading sediment sampling studies in Digby Harbour.

- **Community Consultation and Monitoring Review - Pictou Landing First Nation (PLFN) and Joint Environmental and Health Monitoring Committee (JEHMC)** Senior ecological risk assessor leading a community consultation and monitoring study review related to the Boat Harbour Treatment Facility (BHTF) located in the Pictou Landing First Nation (PLFN) community.
- **Marine Sediment Sampling and Underwater Benthic Habitat Surveys in NS and NB - PWGSC, DFO and EC** Senior marine scientist and project manager on numerous SCH-MSSPs and intertidal and underwater benthic habitat surveys in NS and NB on behalf of PWGSC, DFO and EC.
- **Baseline Marine Surveys for a Proposed Liquefied Natural Gas project, Goldboro, NS - Maple LNG** Senior scientist for a proposed liquefied natural gas (LNG) energy project located in Goldboro, NS. Collected pre-construction baseline marine and terrestrial biophysical data to address EA Conditions of Approval. Marine data were collected and interpreted to assess contaminant loading, particularly mercury and arsenic, in sediments, American lobster and Blue mussels, including a site characterization using underwater videography. Other biophysical data were collected including seasonal bird and seabird data. Results were published in *Marine Pollution Bulletin* (1 paper).
- **Aquaculture Environmental Assessments - Nova Scotia Department of Fisheries and Aquaculture** Senior scientist and project manager leading the Environmental Assessment (EA) and aquaculture site development programs on behalf of Nova Scotia Department of Fisheries and Aquaculture (NSDFA). These projects involve screening of new and expanding aquaculture operations which focus on water and sediment quality parameters.
- **Offshore Oil Spill Monitoring - Water Quality and Sediment Quality Monitoring, Atlantic Towing Limited** Project manager and senior marine specialist responsible for developing water and sediment quality monitoring programs, collecting samples and reporting on environmental effects of possible releases of oil from the sunken barge "Shovelmaster" in 160 m of water located 45 nautical miles south-west of Nova Scotia on behalf of Atlantic Towing Limited. Project attracted media attention, and involved consultations with federal and provincial stakeholders, including Department of Fisheries and Oceans (DFO), Canadian Coast Guard Maritimes, Atlantic Regional Emergencies Team (REET), NSDFA, Environmental Canada representatives, and consultation with representatives from the International Tanker Owners Pollution Federation Limited (ITOPF). This project also involved sediment sampling program to measure potential petroleum hydrocarbon and polycyclic aromatic hydrocarbon contamination in sediments and a second ROV inspection in 2013.
- **Environmental Management Plan for East Coast Naval Marine Operating Areas - Defence Construction Canada and Department of National Defence** Senior scientist for an Environmental Management Plan (EMP) for East Coast Naval Marine Operating Areas – Defence Construction Canada (DCC). Updated the Department of National Defence's (DND's) environmental database for the Navy's marine operating areas (East Coast Canada), and converted environmental data to an EMP and updated the EA. Developed guidance for military activities included addressing Atlantic and federal regulatory and DND requirements for environmental protection, mitigation and monitoring. Mitigation options were based on activities proposed and local environmental sensitivities, such as avoidance of marine protected areas, seasonal fishing activities, aquaculture operations and other marine stakeholders.
- **Environmental Assessments for the Maritime Transmission Link - Emera Newfoundland and Labrador** Project manager to collect biophysical baseline data to develop the EA for the Emera Newfoundland and Labrador (ENL) Maritime Transmission Link power project.
- **Environmental Review Report, Pristine Power Inc.** Senior reviewer for an Environmental Review Report for a proposed 350 MW natural gas-fired simple cycle electricity generation facility for the York Energy Centre in Ontario. Increased demand for energy, the need to get "off coal", and an aging energy infrastructure requires more intermediate energy generating capacity across Ontario.
 - **Environmental Management Plan, Invenergy Wind Canada** Developed an Environmental Management Plan on behalf of Invenergy Wind Canada for a 78 MW wind farm project in the Municipality of Chatham-Kent, Ontario, southwest of Chatham on the north shore of Lake Erie.

- **Environmental Impact Assessment, Olin Corporation** Senior ecological risk assessor and environmental specialist working on an EIA and decommissioning conditions on behalf of Olin Corporation for the decommissioning of their Dalhousie chlor-alkali plant and Blair Malcolm Road Landfill sites.
- **CEAA Environmental Impact Assessment Screening, NSTIR** Senior environmental specialist working on the CEAA Environmental Impact Assessment Screening for Highway 104 - Port Hastings to Port Hawkesbury on behalf of Nova Scotia Department of Transportation and Infrastructure Renewal (NSTIR). Delivered a Class I CEAA Environmental Impact Assessment Screening for Nova Scotia Transportation and Infrastructure Renewal (NSTIR) for its proposed construction and operation of a new 100 series two-lane highway from Highway 105 at Port Hastings to Trunk 4 at Port Hawkesbury (6.8 km), completion of Trunk 4 Port Hawkesbury interchange, and upgrade of the Port Hastings rotary to a modern roundabout.
- **CEAA Environmental Impact Assessment Screening, NSTIR** Senior environmental specialist working on the CEAA Environmental Impact Assessment Screening for Highway 113 which will provide a more efficient means of travel for motorists between Highway 103 and Highway 102, that bypasses the Halifax Urban Core on behalf of NSTIR.
- **CEAA Environmental Impact Assessment Screening, NSTIR** Senior environmental specialist working on the CEAA Environmental Impact Assessment Screening for Highway 101 Phase V - Hortonville to Coldbrook on behalf of NSTIR.

Nov 2006-Oct 2007 - Senior Environmental Specialist (seconded), Public Works and Government Services Canada (PWGSC) working with the Office of Greening Government Operations (OGGO) group

- Seconded to PWGSC (from Jacques Whitford), as a senior environmental specialist on behalf of DND.
- Managed environmental sustainability and biophysical resource projects at CFB Gagetown, as part of a larger (\$500 million) Sustainable Management Plan (SMP).
- Senior scientific advisor to DND developing management and monitoring plans for a range of water and biophysical resources, including aquatic, wetland and terrestrial habitats.
- Developed a Species at Risk field identification manual to protect endangered species at the Canadian Forces Base (CFB) Gagetown.
- Mediated between government, environmental non-government organizations (ENGOS) such as Ducks Unlimited, private sector and other stakeholders.

May 2006-Oct 2007 - Senior Ecological Scientist, Jacques Whitford Environmental Limited, now Stantec <http://www.stantec.com/default.htm>

- PM and senior scientist working in the Biophysical and Ecological Sciences Group for numerous large marine interdisciplinary and multidisciplinary environmental and risk assessment projects. Projects included benthic habitat surveys of Halifax Harbour for marine infrastructure projects, and conducting several EA's for the Halifax Port Authority, federal and provincial government agencies and private sector clients.
- Senior scientist on the proposed Lower Churchill Hydro electric energy project (e.g., Walker, 2007; Walker, 2012). As part of this comprehensive EA study I worked with Innu indigenous people on an Ecological Land Classification survey along the Churchill River in Labrador on behalf of Newfoundland and Labrador Hydro (2 papers).

7. VISITING RESEARCH SCHOLARS AND FELLOWS

7.1. Visiting Scholars

- **Dr. Hui Wang.** Visiting Professor from July 1st, 2020 to June 30th, 2021. Dr. Wang worked with me to study characterization, ecological risk assessment and source apportionment of metal contaminants in Boat Harbor sediments in Nova Scotia and was funded by the Chinese Scholarship Council resulting in four publications:
 - Wang, H., Chang, H., **Walker, T.R.**, Wang, Y., Wu, H., Wang, X., Qing, L. (2022). Characterization, source apportionment and risk assessment of polycyclic aromatic hydrocarbons (PAHs) in urban soils from 23 cities in China. *Environmental Science and Pollution Research*. DOI:
 - Wang, H., Chen, Z., **Walker, T.R.**, Wang, Y., Luo, Q., Wu, H., Wang, X. (2021). Characterization, source apportionment and risk assessment of PAHs in urban surface dust in Shenyang City, China. *Environmental Geochemistry and Health*. DOI: <https://doi.org/10.1007/s10653-021-01134-3>
 - Wang, H., Chang, H., **Walker, T.R.**, Wang, Y., Wu, H., Luo, Q., Wang, X., Zhao, Y. (2021). Characterization and risk assessment of metals in surface sediments and riparian zone soils of Liaohe River, China. *Applied Geochemistry*, 134, 105104. DOI: <https://doi.org/10.1016/j.apgeochem.2021.105104>
 - Wang, H., Zhao, Y., **Walker, T.R.**, Wang, Y., Luo, Q., Wu, H., Wang, X. (2021). Distribution characteristics, chemical speciation and human health risk assessment of metals in surface dust in Shenyang City, China. *Applied Geochemistry*, 131, 105031.
- **Dr. Hongling Zhang.** Visiting Professor from June 1st, 2018 to May 31st, 2019. Dr. Zhang worked with me to study characterization, ecological risk assessment and source apportionment of metal contaminants in marine sediments in Nova Scotia and was funded by the Chinese Scholarship Council resulting in two publications:
 - Zhang, H., **Walker, T.R.**, Davis, E., Ma, G. (2019) Ecological risk assessment of metals in small craft harbour sediments in Nova Scotia, Canada. *Marine Pollution Bulletin*. 145: 641-648. DOI: 10.1016/j.marpolbul.2019.06.068.
 - Zhang, H., **Walker, T.R.**, Davis, E., Ma, G. (2019) Spatiotemporal characterization of metals in small craft harbour sediments in Nova Scotia, Canada. *Marine Pollution Bulletin*. 140: 493-502. DOI: 10.1016/j.marpolbul.2019.02.004.

7.2. Visiting Fellows

- **Dr. Ndubuisi Nwafor.** Visiting [ACU Blue Charter Fellow](#) for 6 months from January 1st, 2020 to June 30th, 2020. **Dr. Nwafor was a visiting fellow from the Faculty** of Law, University of Nigeria, Enugu, Nigeria **and his research** project, 'Ocean governance and plastic pollution in Nigeria' critically investigated how to prevent plastics from leaking into the Oceans in Nigeria through the use of effective laws, regulations and policies from the national, regional and global perspectives. Environmental law is an area of research of which Dr. Ndubuisi Nwafor already has extensive technical expertise. Dr. Nwafor was funded by the ACU Blue Charter Fellowship and resulted in two publications:
 - Nwafor, N., **Walker, T.R.** (2020). Plastic Bags Prohibition Bill: A developing story of crass legalism aiming to reduce plastic marine pollution in Nigeria. *Marine Policy*, 120, 104160.
 - Nwafor, N.A., **Walker, T.R.** (2020). Rethinking marine insurance and plastic pollution: food for thought. *Resources, Conservation and Recycling*, 161, 104950.
- **Dr. Robyn Wright.** Visiting [ACU Blue Charter Fellow](#) from October 1st, 2019 to June 30th, 2020. Dr. Wright's research conducted a meta-analysis of literature related to microbial colonization and degradation of plastics in the marine environment. The meta-analysis will use a single standardized methodological approach, to determine what role abiotic factors play in microbial plastic degradation. We believe this research is important to establishing the fate of marine plastics, as well as improving our understanding of the factors that drive these interactions with larger marine

organisms. Dr. Wright was funded by the ACU Blue Charter Fellowship and resulted in one publication:

- Wright, R.L., Langille, M.G., Walker, T.R. (2021). Food or just a free ride? A meta-analysis reveals the global diversity of the Plastisphere. *The ISME Journal*, 15, 789–806. DOI: <https://doi.org/10.1038/s41396-020-00814-9>
- **Dr. Joana Carlos Bezerra.** Visiting [ACU Blue Charter Fellow](#) from January 7th, 2019 to March 31st, 2019. Dr. Bezerra’s research explored impacts of plastic pollution on marine life in Marine Protected Areas (MPAs) and strategies to engage communities to change behaviour around plastic mismanagement in the Garden Route National Park in South Africa. Dr. Bezerra was funded by the ACU Blue Charter Fellowship and resulted in one publication:
 - Bezerra, J.C., Walker, T.R., Clayton, C.A., Adam, I. (2021). Single-Use Plastic Bag Policies in the Southern African Development Community. *Environmental Challenges*, 3, 100029. DOI: <https://doi.org/10.1016/j.envc.2021.100029>
- **Dr. Andrea Clayton.** Visiting [ACU Blue Charter Fellow](#) from December 28th, 2018 to March 28th, 2019. Dr. Clayton’s research explored how to influence behavior change in the use and disposal of plastics to minimize marine ecosystem impacts across the Caribbean region. Dr. Clayton was funded by the ACU Blue Charter Fellowship and resulted in one publication:
 - Clayton, A., Walker, T.R., Bezerra, J.C., Adam, I. (2021). Policy responses to reduce single-use plastic marine pollution in the Caribbean. *Marine Pollution Bulletin*, 162, 111833. DOI: <https://doi.org/10.1016/j.marpolbul.2020.111833>
- **Dr. Issahaku Adam.** Visiting [ACU Blue Charter Fellow](#) from December 28th, 2018 to March 28th, 2019. Dr. Adam’s research explored how to influence behavior change in the use of plastic bags along Ghanaian coastal cities, especially along the Cape Coast. Dr. Adam was funded by the ACU Blue Charter Fellowship and resulted in two publications:
 - Adam, I., Walker, T.R., Clayton, A., Bezerra, J.C. (2021). Attitudinal and behavioural segments on single-use plastics in Ghana: Implications for reducing marine plastic pollution. *Environmental Challenges*, 4, 100185. DOI: <https://doi.org/10.1016/j.envc.2021.100185>
 - Adam, I., Walker, T.R., Bezerra, J.C., Clayton, A. (2020) Review of policies to reduce single-use plastics in west Africa. *Marine Policy*, 116, 103928. DOI: 10.1016/j.marpol.2020.103928.

8. RESEARCH GRANTS

8.1. Completed Grants

- 2020 VPRIIS Vice-President Research and Innovation International Seed Fund** Principal Investigator, *Pollution biomonitoring using honeybees* **(\$5,000)**
- 2021 MITACS Accelerate** Principal Investigator –*Identification of key monitoring activities for the Ka:’yu:’k’t’h’/Che:k’tles7et’h’ First Nations Stewardship Program* **(\$15,000)**
- 2021 Divert NS Grant** Principal Investigator, *COVID and single-use plastic (SUP) use in Nova Scotia and across Atlantic Canada: How can we reverse the increase in single-use plastic (SUP) use as a result of the COVID-19 pandemic?* **(\$50,000)**
- 2020 Clean - Single-use plastics (SUPs) Action Grant** Principal Investigator, *Reducing single-use plastics (SUPs)* **(\$4,000)**
- 2019 MEOPAR (Marine Environmental Observation, Prediction and Response Network),**
- 2019** Principal Investigator, *Beyond What Meets the Eye: Microplastics Research, Sampling & Communication Training*. This grant is under the Network’s Training Workshop Program which provides financial support to organize and host training workshops for students, community members, and/or early-career marine researchers. Workshops in collaboration with Coastal Action **(\$24,500)**

- 2019 Divert NS Grant** Supervisor for MES student Avalon Diggle, *Exploring the Capacity of Extended Producer Responsibility (EPR) Strategies to Incentivize Recovery of Packaging and Printed Paper (PPP) Waste Generated from Food Packaging in Nova Scotia* **(\$17,500)**
- 2019 NSERC CREATE Grant** Supervisor for MREM student, Lyndsay Eichinger, who won **ASPIRE** funding for her proposal, *Review of remedial options for the Boat Harbour remediation project in Nova Scotia, Canada* **(\$12,000 per year for 1.5 years)**
- 2019 NSERC CREATE Grant** Supervisor for MES student Myriam Mora, who won **ASPIRE** funding for her proposal, *Characterization and risk assessment of polychlorinated biphenyls (PCBs) and petroleum hydrocarbons (PHCs) in small craft harbours (SCH) sediments in Nova Scotia, Canada* **(\$12,000 per year for 3 years)**
- 2019 National Geographic Society Grant - Reducing Plastic Pollution** Co-Investigator, *Behaviour change towards the use of single-use plastics along coastal cities in Ghana* **(\$50,000 USD equivalent to \$65,500)**
- 2018 Nova Scotia Lands** Principal Investigator (Boat Harbour Remediation Research Project using passive samplers to analyze for metals, mercury and methyl mercury in freshwater and marine sediments) **(\$57,500)**
- 2017 Nova Scotia Lands** Principal Investigator (3 Boat Harbour Remediation Research Projects) **(\$180,000)**
- 2017 Nova Scotia Lands** Co-Investigator (3 Boat Harbour Remediation Research Projects) **(\$135,000)**
- 2017 Nova Scotia Lands** Co-Investigator (1 Boat Harbour Remediation Research Project awarded to Jim Williams, St. FX) **(\$76,500)**
- 2017 MITACS** Principal Investigator – Evaluation and Strategic Review of the Nova Scotia Liquor Corporation’s Environmental Management Plan **(\$15,000)**
- 2016 Nova Scotia Lands** Principal Investigator – Holistic Review of Documents to Support the Boat Harbour Remediation Research Project **(\$46,500)**
- 2016 MITACS** Principal Investigator – Bird and bat mortality mitigation near wind turbines **(\$15,000)**
- 2016** Winner of Faculty of Management, Dalhousie University, Rising Research Star Award (2015/16) **(\$1000)**
- 2016 MITACS** Principal Investigator – Wetland policy development in Nova Scotia **(\$15,000)**
- 2016 DFA Travel Award (Internal)** ICEPR 2016: 18th International Conference on Environmental Pollution and Remediation, London, UK. July 2016 **(\$2300)**
- 2015 DFA Travel Award (Internal)** Canada Land Reclamation Association and the Manitoba Soil Science Society Conference, Winnipeg, June 2015 **(\$2300)**
- 2015 SSHRC Research Development Fund (Internal)** Research Conference Travel Grant **(\$1000)**
- 2015 SSHRC Research Development Fund (Internal)** Social and Environmental Issues related to Harbour Divestiture in Canada **(\$3500)**
- 2014 SSHRC Research Development Fund (Internal)** Research Conference Travel Grant **(<\$1000)**

8.2. Ongoing Grants

- 2023 Divert NS Grant** Supervisor for MREM student Hunar Arora, *Improving Waste Compliance within the Industrial, Commercial and Institutional Sectors (ICI)* **(\$17,500)**
- 2022 ECCC AEI (Atlantic Ecosystem Initiative) - Co-Applicant, Fate and transport of microplastic contaminants in coastal ecosystems of Atlantic Canada.** Co-Principal Investigator **(\$200,000 for three years)**
- 2022 SSHRC Partnership Grant: Green Shipping** (worth \$2.5M for six years) Collaborator, funding for sixth year of 6 years **(Year 6 \$20,000)**
- 2022 HORIZON-MSCA-2021-DN-01 (MSCA Doctoral Networks 2021)** Co-Applicant, *Plastic*

- 2026 *Underground Doctoral Training Network* **(\$2.7M for 4 years)**
- 2022 **SSHRC IG (Insight Grant)** Co-Applicant, *A Canadian university case study: co-creating inclusive sustainable development pathways* **(\$73,026 for 2 years).**
- 2022 **NSERC Alliance Grants (ALLRP)** Missions, proposal entitled "*Enhancing Maritime Industry Resilience and Sustainability by Development of Non-toxic Anti-Fouling Marine Coatings*", with Zero Waste Farms, Kavacha, Clean Valley CIC Co-grantee **(\$361,500 for 2 years)**
- 2024 **NSERC CREATE Grant** Supervisor for MES student Daniel Saunders, who won **ASPIRE** funding for her proposal, *Spatial assessment and characterization of microplastic in wild and cultured blue mussels (*Mytilus edulis*) across Atlantic Canada* **(\$12,000 per year for 2 years)**
- 2021 **NSERC CREATE Grant** Supervisor for MES student Amber LeBlanc, who won **ASPIRE** funding for her proposal, *Abundance and characterization of microplastics in American lobster (*Homarus americanus*)* **(\$12,000 per year for 2 years)**
- 2020 **NSERC CREATE Grant** Supervisor for MES student Megan Fraser, who won **ASPIRE** funding for her proposal, *Boat Harbour Remediation: Assessing Legacy Impacts of Pulp Mill Effluent on Coastal Food Web Structure using Stable Isotope Analysis* **(\$12,000 per year for 2 years)**
- 2021 **Strategic JELF fund** Co-Principal Investigator, *Centre of Excellence in Microplastic Studies*.
- 2023 Dalhousie approved **\$269,209** to support Dr. Tony Walker, Dr. Rachel Chang (Department of Physics and Atmospheric Science) and Dr. Vittorio Maselli (Department of Earth and Environmental Sciences) to establish a centre of excellence for micro(nano)plastics research. **(\$269,209)**
- 2021 **NSERC Plastics for a Cleaner future: pELastics Microplastics Project** (worth \$1.0M for four years) Co-Principal Investigator, *Understanding the Fate and Effects of Microplastics in Aquatic Ecosystems* **(\$40,000)** <https://rochmanlab.com/the-pelastic-project/>
- 2021 **SSHRC Partnership Grant: Green Shipping** (worth \$2.5M for six years) Collaborator, funding for fifth year of 6 years **(Year 5 \$30,000)**
- 2020 **SSHRC Partnership Grant: Green Shipping** (worth \$2.5M for six years) Collaborator, funding for fourth year of 6 years **(Year 4 \$20,000)**
- 2019 **SSHRC Partnership Grant: Green Shipping** (worth \$2.5M for six years) Collaborator, funding for third year of 6 years **(Year 3 \$18,000)**
- 2018 Winner of inaugural Dalhousie President's Excellence Research Award, Emerging Scholar **(\$2000)**
- 2018 **SSHRC Partnership Grant: Green Shipping** (worth \$2.5M for six years) Collaborator, funding for second year of 6 years **(Year 2 \$18,000)**
- 2018 **NSERC Discovery Grant** Principal Investigator, *Discovery and application of technologies to improve management of contaminated aquatic sites in Canada* **(\$142,500)**
- 2018 **NSERC CREATE Grant** Co-Applicant, **ASPIRE Aquatic Systems Professional and Industrial Training for the Restoration Economy** **(\$1.67M)**
- 2018 **FSE Social Responsibility Competition, 10,000 Actions Funding Call** Co-Applicant, **Canary BeeLife** pathway for pollution investigation using **Citizen Scientist** apiarists (Research Project awarded to Simon Harper, University of Manchester, UK) **(\$2,000)**
<http://beelife.cs.manchester.ac.uk/projects/canary/>
- 2018 **NB-WHT** Collaborator - Investigating wildlife and roadway interactions in the Chignecto Isthmus, NB **(\$11,160)**
- 2017 Winner of Faculty of Management, Dalhousie University, Rising Research Star Award (2016/17) **(\$1000)**
- 2017 **SSHRC Partnership Grant: Green Shipping** (worth \$2.5M for six years) Collaborator, funding for first year of 6 years **(Year 1 \$11,000)**

8.3. Pending Grants

8.4. Unsuccessful Grants

- 2022 **NSERC RTI (Research Tools and Instruments)** Principal Investigator – *Micro-Raman laser spectrometer for new micro and nanoplastic (MnP) Lab at Dalhousie University* **(\$150,000)**
- 2022 **NERC UK-Canada Globalink Doctoral Exchange Scheme** Co-Applicant, *Indoor and Outdoor Exposure to Atmospheric Microplastics and Consequences to Human Health and Perspectives: A Preliminary Assessment of Canada* (NE/X007561/1) **(\$23,000)**
- 2021 **NSERC RTI (Research Tools and Instruments)** Principal Investigator – *Micro-Raman laser spectrometer for new micro and nanoplastic (MnP) Lab at Dalhousie University* **(\$150,000)**
- 2021 **NOVA FRQ** Co-Investigator – *LCA of microplastics in the St. Lawrence River* **(\$225,000 for three years)**
- 2021 **DFO Fisheries and Oceans Canada Science Funding Opportunities - Fate and transport of microplastic contaminants in coastal ecosystems of Atlantic Canada.** Co-Principal Investigator **(\$300,000 for three years)**
- 2021 **NSERC CREATE Grant** Co-Applicant, *Training for monitoring and reducing plastic pollution in the environment (T-PIONEER)* **(\$1.65M)**
- 2020 **NSERC CREATE Grant** Co-Applicant, *Training for monitoring and reducing plastic pollution in the environment* **(\$1.65M)**
- 2020 **NSERC Plastics for a Cleaner future: Microplastics in Atlantic Canada Marine Ecosystems.** Co-Principal Investigator **(\$1.0M for four years)**
- 2020 **NSERC Plastics for a Cleaner future: Microplastics in Soil, Biosolids and Compost.** Co-Principal Investigator **(\$1.0M for four years)**
- 2020 **NSERC New Frontiers in Research Fund (NFRF) Plastics (NFRFE-2020-00480)** Co-Applicant, *Designing Sustainable Food Packaging: A Comprehensive Tool for the Plastics Circular Economy (PlaCE)* **(\$200,000)**
- 2019 **NSERC New Frontiers in Research Fund (NFRF) Plastics (NFRFE-2019-00315)** Co-Principal Investigator, *Nanoplastic in the Environment: Detection, Quantification and Characterization* **(\$200,000)**
- 2019 **JPI Oceans JUMPER Partnership** Collaborator, *Journey of Microplastics in the Marine Environment* **(€1,273,724 equivalent to \$1,869,700)**
- 2019 **National Geographic Society Grant - Reducing Plastic Pollution** Co-Principal Investigator, *Reducing plastic waste going to the ocean through Citarum river using behavioural interventions* **(\$50,000 USD equivalent to \$65,500)**
- 2019 **Association of Commonwealth Universities ACU Fellowship, Canada Fellowship Outward** **(\$16,000)**
- 2019 **NSERC New Frontiers in Research Fund (NFRF) – Exploration (NFRFE-2018-00938)** Co-Principal Investigator, *Addressing Canada's Big Challenge with Microplastics* **(\$200,000)**
- 2018 **VPRIIS Vice-President Research and Innovation International Seed Fund** Principal Investigator, *Assessment of pollution impacts using honey collected by citizen scientist apiarists as a bioindicator* **(\$10,000)**
- 2018 **Environment and Climate Change Canada (ECCC) - Climate Change Monitoring Program Fund** Co-Investigator, *Monitoring Climate Change in Nitassinan; Adaptation to an Emerging Future* **(\$150,000)**
- 2017 **Environment and Climate Change Canada (ECCC) – Environmental Damages Fund** Co-Investigator, *Ashuapun/Border Beacon aquatic restoration project* **(\$200,000)**
- 2017 **NSERC CREATE Grant** Co-Applicant, **NEXT NEXus Training: Overcoming Environmental Challenges by Integrating Technology, Policy, and Citizen Engagement in a Changing Climate** **(\$1.55M)**

2016 NSERC Discovery Grant Principal Investigator, *Transfer of ecological risk assessment of technologies to improve management of contaminated aquatic sites in Canada* (**\$278,500**)

9. OTHER TEACHING EXPERIENCE

- Attended a *Strategies to incorporate values-based management into teaching* workshop, Faculty of Management, Dalhousie University, January 2015.
- Attended a *Creating a Teaching Dossier* workshop, Killam Library, Dalhousie University, May 2015.
- Assistant Professor (Probationary Tenure Track and Tenure Track), SRES, Faculty of Management, Dalhousie University. Guest Lecturer for the following courses:
 - MARBIO4000 - Marine Semester program at the Huntsman Marine Science Centre, University of New Brunswick - *Solutions for a Global Single-Use Plastic Marine Pollution Problem* – Fall 2022
 - COMM3310 - Reflection on leadership and our module is on climate leadership - *Solutions for a Global Single-Use Plastic Marine Pollution Problem* – Winter 2022
 - ENVE6101 - *Environmental Restoration: Policy and Practice* - Fall 2021
 - OCEA 4401 - *Marine Management I - Solutions for a Global Single-Use Plastic Marine Pollution Problem* – Fall 2021
 - Department of Oceanography Seminar - *Solutions for a Global Single-Use Plastic Marine Pollution Problem* – Fall 2021
 - ENVS4499 - *Management and remediation of contaminated sites*, Saint Mary's University - Fall 2021
 - BUSI6007 - *Innovation Management* – Winter 2020
 - ENVE6101 - *Environmental Restoration: Policy and Practice* - Fall 2019
 - ENVI5501 - *MREM Internship – Consulting Opportunities* - Fall 2018, Fall 2019
 - ENVI5509 - *Graduate Seminar – Research in a Consulting Context* - Fall 2016, Fall 2018, Fall 2022
 - ENVI5001 - *Environmental Assessment - Environmental Impact Assessment: A Consultants Perspective* - Fall 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020, Fall 2022
 - MGMT3701 - *Environment and Resource Problem Solving I - Community as a Living Lab - Harbour and coastal remediation* – Fall 2017, Fall 2018
 - ENVS2100 – *Environmental Informatics – Environmental Informatics: Challenges of data collection and interpretation in decision-making* - Fall 2016
 - BIOL3060 - *Environmental Ecology - Challenges of data collection and interpretation in decision-making* - Fall 2016
 - ENVS3423 - *Environmental Impact Assessment - Environmental Impact Assessment: A Consultants Perspective* - Fall 2016, Acadia University
 - ANT2392.2 - *Arctic Culture Area - Perceived and measured levels of environmental pollution: interdisciplinary research in the subarctic lowlands of northeast European Russia* – Winter 2018, Saint Mary's University
- Assistant Professor (Limited Term Appointment), SRES, Faculty of Management, Dalhousie University. Guest Lecturer for the following Fall 2014 / Winter 2015 courses:
 - ENVI5509 - *Graduate Seminar – Research in a Consulting Context* - Fall 2014 and Fall 2015
 - ENVI5001 - *Environmental Assessment - Environmental Impact Assessment: A Consultants Perspective* - Fall 2014 and Fall 2015
 - MGMT3701 - *Environment and Resource Problem Solving I - Community as a Living Lab - The Use of biophysical information in decision making in Halifax Harbour* – Winter 2015 and Fall 2015
 - MGMT5000 - *Management Without Borders – Plenary lecture* - Fall 2015

- ENVS2100 – *Environmental Informatics – Environmental Informatics: Challenges of data collection and interpretation in decision-making* - Fall 2015
- Sessional Professor teaching ENVI5505 / MGMT4505-1 - *Biophysical Dimensions of Resource and Environmental Management* to students in the MREM program - Winter 2011, 2012 and 2013 at SRES, Faculty of Management, Dalhousie University.
- OCEA4335.03 / 5335.03 - *Environmental Impacts in Marine Ecosystems*, Department of Oceanography, Dalhousie University. Taught classes during 2004, 2005 and 2006. Lectures included: coastal eutrophication; elemental fluxes, benthic impacts, remote sensing using satellite imagery for interpretation of biophysical geography; discussions of research papers with graduate and undergraduate students on remote sensing; food webs and biodiversity.
- Guest Lecturer for ENVS4001 - *Environmental Assessment - Panel Discussion*, Environmental Programs, Dalhousie University (Winter 2012).
- Natural History Lecturer for Princess Cruises in Antarctica and South America during January and February 2010 and again in January 2020. Lecture topics included: Impacts of the Southern Ocean Fishery on Seabirds of Antarctica: Management and Mitigation Options; Four Years in the Antarctic, Part 1: Signy Island; Four Years in the Antarctic, Part 2: Bird Island; The Adventures of an Antarctic Seal Scientist; The Natural History of Pack-ice Seals; Early Antarctic polar exploration including the establishment of the British Antarctic Survey; Natural History of the Falkland Islands.
- Highly Qualified Personnel (HQP) training experience gained by mentoring graduate and undergraduate students at Dalhousie University and the University of Nottingham, UK.
- Mentoring skills gained whilst supervising and managing junior and intermediate HQP at Dillon Consulting Limited, Public Works and Government Services Canada (PWGSC) and Jacques Whitford in resource and environmental management.

10. UNDERGRADUATE SUPERVISION

- 2022- Kali Hines**, Dalhousie University – Supervisor Bachelor of Science (BSc) honours thesis
- 2023** *'SUP with Nova Scotia: Characterizing Nova Scotia's Single-Use Plastic Waste within the Canadian Federal Single-Use Plastic (SUP) Ban* (completed)
- 2017- Baillie Holmes**, Acadia University - Committee Member Bachelor of Science (BSc) honours
- 2018** thesis *Establishing background levels of metals and organic contaminants in aquatic sediments* (completed)
- 2017- Kirklyn Davidson**, Acadia University - Committee Member Bachelor of Science (BSc) honours
- 2018** thesis *Application of the paleolimnological method in the environmental assessment of effluent-influenced freshwater sediment: an example from northern Nova Scotia* (completed)
- 2016- Kevin Brown**, Dalhousie University – Supervisor Bachelor of Science (BSc) honours thesis
- 2017** *Urban surface water runoff on Dalhousie University's Studley campus (Halifax, N.S.)* (completed)

11. GRADUATE SUPERVISION

11.1. Supervisor/Co-Supervisor – In Progress

- 2022- Celia Konowe**, Supervisor - MES student *pELastic: a whole-ecosystem experiment to understand the fate and effects of microplastics* (in progress)
- 2022- Hannah Vonberg**, Supervisor - MES student *Remediation of microplastics* (in progress)
- 2022- Shaylyn Lewis**, Supervisor - MES student *Sustainable antibiofouling solutions* (in progress)
- 2021- Amber LeBlanc**, Supervisor - MES student *Characterization of microplastics and PFAS in American lobster tissues in Nova Scotia* (in progress)
- 2021- Daniel Saunders**, Supervisor - MES student *Characterization of microplastics in Blue mussel and America oyster tissues in Nova Scotia* (in progress)

11.2. Supervisor/Co-Supervisor – Completed

- 2022- **Ela Cichowski**, Supervisor - Master of Marine Management (MMM) student *Policy framework for ghost gear retrieval in Atlantic Canada* (completed 2022)
- 2020- **Gianina Giacosa Massa**, Supervisor - MES student *Characterization of air emissions from pulp and paper mill facilities in Atlantic Canada* (completed 2022)
- 2021- **Lisa Baxter**, Supervisor, Master of Marine Management (MMM) student *Evaluating Canada's single-use plastic mitigation policies via brand audit and beach cleanup data to reduce plastic pollution* (completed 2021) <https://dalspace.library.dal.ca/handle/10222/81318>
- 2020- **Megan Fraser**, Supervisor - MES student *Assessing impacts of historical pulp mill effluent on coastal food web structure and identifying suitable bioindicators for wastewater: a stable isotope ($\delta^{13}C$ and $\delta^{15}N$) analysis* (completed 2022) <https://dalspace.library.dal.ca/handle/10222/81758>
- 2019- **Priyanka Varkey**, Supervisor, Master of Marine Management (MMM) student *Using public perceptions of the impacts of single-use plastics on the marine environment to propose strategies to mitigate marine plastic pollution in Halifax, Nova Scotia* (completed 2019) <https://dalspace.library.dal.ca/handle/10222/77796>
- 2019- **Myriam Mora**, Supervisor - MES student *Characterization and risk assessment of polychlorinated biphenyls (PCBs) and petroleum hydrocarbons (PHCs) in small craft harbours (SCH) sediments in Nova Scotia, Canada* (completed 2022) <https://dalspace.library.dal.ca/handle/10222/81515>
- 2019- **Monica Ragan**, Supervisor - MES student *Social and environmental issues related to harbour divestiture in Canada* (completed 2021) <https://dalspace.library.dal.ca/handle/10222/80723>
- 2018- **Kristal Ambrose**, Co-Supervisor, Master of Marine Management (MMM) student *Tools for marine debris management: A case study of beaches in South Eleuthera, The Bahamas* (completed 2018) <https://dalspace.library.dal.ca/handle/10222/75121>
- 2018- **Avalon Diggle**, Supervisor - MES student *Exploring the Capacity of Extended Producer Responsibility (EPR) Strategies to Incentivize Recovery of Packaging and Printed Paper (PPP) Waste Generated from Food Packaging in Nova Scotia* (completed 2022) <https://dalspace.library.dal.ca/handle/10222/81540>
- 2018- **David Oakley**, Supervisor - MES student *Use of Fenton and Photo-Fenton Processes for the Effective Remediation of Industrial Wastewater Pollutants* (completed 2021) <https://dalspace.library.dal.ca/handle/10222/80699>
- 2017- **Harveer Srain**, Supervisor - MES student *Impacts of pharmaceuticals and personal care products (PPCPs) in aquatic ecosystems in Canada* (completed 2020) <https://dalspace.library.dal.ca/handle/10222/79755>
- 2017- **Meenakshi Chaudary**, Supervisor - MES student *Baseline assessment of organic and inorganic contaminants in sediments and marine biota of Northumberland Strait* (completed 2019) <https://dalspace.library.dal.ca/handle/10222/76809>
- 2017- **Meaghan Quanz**, Supervisor - MES student *Assessing effects of industrial effluent on wetlands surrounding a wastewater treatment facility using a multiple lines of evidence approach* (completed 2019) <https://dalspace.library.dal.ca/handle/10222/76750>
- 2017- **Romeet Gonzalez**, Co-supervisor MES thesis *Application of a collective governance model for community decision making related to a long-standing watershed drinking water contamination problem in a vulnerable community in Nova Scotia* (withdrawn)
- 2017- **Noah Eisner**, Co-Supervisor, Master of Marine Management (MMM) student *Human-Environment System framework for a SusGren remediation project* (completed 2018) <https://dalspace.library.dal.ca/handle/10222/74858>
- 2016- **Emily Davis**, Supervisor - MES student *Improved polycyclic aromatic hydrocarbon (PAH) characterization and assessment in small craft harbour sediments in Nova Scotia* (completed 2018) <https://dalspace.library.dal.ca/xmlui/handle/10222/75016>

11.3. Member of PhD Graduate Advisory Committees

- 2023- **Ben Collinson**, Co-Supervisor, IDPhD thesis student *Forest Disturbance and Freshwater Fish Habitat* (in progress)
- 2022- **Justine Ammendolia**, Supervisor, IDPhD thesis student *Going to the source: Developing pollution intervention strategies through the characterization and monitoring of plastics between environments* (in progress)
- 2019- **Megan Rector**, Committee Member IDPhD thesis student *Ecocertification of Atlantic salmon (*Salmo salar*)* (in progress)
- 2020- **Laura A.T. Markley**, Committee Member, PhD thesis student, Syracuse University, NY. *A Multi-Disciplinary Approach to Plastic Pollution from Environmental Sampling to Surveying: Quality Assurance, Freshwater Contamination, and Popular Opinions*. Doctor of Philosophy in Civil Engineering (completed 2023)
- 2017- **Masi Alimohammadi**, Faculty of Engineering, Committee Member PhD thesis *Geoenvironmental Remediation of Marine Sediments* (completed 2020)
<https://dalspace.library.dal.ca/xmlui/handle/10222/80054>
- 2017- **Mehrnaz Ashrafi**, Committee Member IDPhD thesis student *Corporate Sustainability in the Port Sector* (completed 2020) <https://dalspace.library.dal.ca/xmlui/handle/10222/80306>
- 2018 **Kevin Keys**, Committee Member and Internal Reader for PhD thesis *Impacts of alkaline-treated biosolids on spruce plantation soils and vegetation in Nova Scotia, Canada* (completed 2018)
<https://dalspace.library.dal.ca/handle/10222/73785>

11.4. Member of Master's Graduate Advisory Committees

- 2021- **Meghan Lea**, Committee Member - MAS thesis *Surface morphology of microplastics and heavy metal adsorption to microplastics in drinking water* (completed 2023)
- 2021- **Connor Nishikawa**, Committee Member - MES thesis *Assessing the influence of a warming climate on the biota of Arctic freshwater systems* (completed 2022)
<https://dalspace.library.dal.ca/handle/10222/82185>
- 2020- **Alison Covert**, Committee Member - MES thesis *Tracking long-term responses of chironomids to human settlement the influence of connectivity* (completed 2022)
<https://dalspace.library.dal.ca/handle/10222/81542>
- 2019- **Alannah Niemeyer**, Committee Member - MES thesis *Understanding the influence of connectivity on productivity along the terrestrial-aquatic interface in the Canadian Arctic, Inuvik, N.W.T.* (completed 2021) <https://dalspace.library.dal.ca/handle/10222/80093>
- 2019- **Kolapo Adesida**, Committee Member - MES thesis *Concurrent removal of organic and heavy metal contaminants in wastewater: a case study on a pulp mill effluent and leachate* (completed 2020) <https://dalspace.library.dal.ca/handle/10222/79731>
- 2019- **Priscilla Schmitz** Faculty of Engineering, Committee Member Master of Applied Science (MAS) *Cumulative Risk Assessment (CRA) for shipping stressors and then applies it in a case study in Kitikmeot region* (completed 2019) <https://dalspace.library.dal.ca/handle/10222/76778>
- 2018 **Erica Gillis**, Committee Member MES thesis *Marine spatial planning for ecological decision making in marine protected areas* (switched to the MREM program during her first year)
- 2018- **Ella Maltby**, St.FX University, Committee Member Master of Science (MSc) thesis *Monitoring toxicology levels from pulp mill effluents and behaviour in lobster* (completed 2021)
- 2017- **Jennifer MacNeil**, Committee Member MES thesis *Evaluating the efficacy of sustainability initiatives and development of a framework to improve sustainability in the Canadian port sector* (completed 2021) <https://dalspace.library.dal.ca/handle/10222/80373>

- 2017- **Amelia Barnes**, Committee Member MES thesis *Implementing Multiple Sources of Evidence to Describe Wildlife-Road Interactions in the Chignecto Isthmus Region of Nova Scotia and New Brunswick, Canada* (completed 2019) <https://dalspace.library.dal.ca/handle/10222/76829>
- 2016- **Rebecca Betts**, Faculty of Engineering, Committee Member Master of Applied Science (MAS) thesis *Cyanobacteria Presence in Four Lakes in the Halifax Regional Municipality (HRM), Nova Scotia* (completed 2018) <https://dalspace.library.dal.ca/handle/10222/74136>
- 2015- **Jeff Blair**, Committee Member MES thesis *"They have continuous long-term observations, they know what's going on, and they are concerned": Connecting community stewardship to water governance and social-ecological systems in Nova Scotia* (completed 2018) <https://dalspace.library.dal.ca/xmlui/handle/10222/73813>
- 2015- **Jie Ma**, Committee Member MES thesis *Scholar and Practitioner Views on Science in Environmental Assessment* (completed 2018) <https://dalspace.library.dal.ca/xmlui/handle/10222/73825>
- 2015- **Md Tahazzud Hossain**, Committee Member MES thesis *State of sustainability initiatives in global ports* (completed 2018) <https://dalspace.library.dal.ca/xmlui/handle/10222/73903>
- 2015- **Brittany MacDonald**, Committee Member MES thesis *Dewatering Strategies and End Use Examination of Paper Mill Residuals* (completed 2017) <https://dalspace.library.dal.ca/xmlui/handle/10222/72810>
- 2014- **Aaron MacKinnon**, Committee Member MES thesis *Application Implementing science in environmental assessment - a review of theory* (completed 2017) <https://dalspace.library.dal.ca/handle/10222/72745>

11.5. Examiner, Second Reader or Chair of Graduate Theses Defences

- 2023 **Ronnie Noonan**, External Examiner for MES thesis defence. *Applying the SDGs in a framework to assess blue economy capacity of industry operators in Canada* (completed 2023) <https://dalspace.library.dal.ca/xmlui/handle/10222/82520>
- 2022 **Molly Bradford**, External Examiner for MSc thesis, Acadia University. *Geochemical and Ecological Controls on Mercury Speciation and Bioaccumulation in Coastal Invertebrates (Minas Basin, Bay of Fundy)* (completed 2022) <https://scholar.acadiau.ca/islandora/object/theses%3A3478>
- 2021 **Tianna Clarke**, Second Reader for MMM Graduate Project Report, Marine Affairs Program, Dalhousie University. *The Canadian maritime sector's perception of the International Maritime Organization's (IMOs) short-term measures for greenhouse gas (GHG) emissions* (completed 2021) <https://dalspace.library.dal.ca/handle/10222/81335>
- 2021 **Leah Fulton**, Second Reader for MMM Graduate Project Report, Marine Affairs Program, Dalhousie. *Untangling the problem of abandoned, lost, and discarded fishing gear: evaluating the benefits of side scan sonar as a gear detection method* (completed 2021) <https://dalspace.library.dal.ca/handle/10222/81330>
- 2021 **Kerry Moss**, External Examiner for MSc thesis, Faculty of Science, Nelson Mandela University, South Africa. *Plastic Particle Characterization and Concentrations Found in the River and Marine Water Environment of Algoa Bay, South Africa* (completed 2021) http://vital.seals.ac.za:8080/vital/access/manager/Repository/vital:46025?site_name=GlobalView
- 2020 **Noémie Blais**, Second Reader for MMM Graduate Project Report, Marine Affairs Program, Dalhousie University. *Are Atlantic Leatherback Turtles (*Dermochelys Coriacea*) at Risk of Plastic Pollution in The Northwest Atlantic Ocean?* (completed 2020) <https://dalspace.library.dal.ca/handle/10222/80260>
- 2020 **Kirklyn Davidson**, External Examiner for MAS thesis, Faculty of Engineering, Dalhousie University. *Assessing the Ultraviolet Optical Screening Tool for Delineating an In-situ, Water-*

- covered, Contaminated Sediment Layer* (completed 2020)
<https://dalspace.library.dal.ca/handle/10222/79689>
- 2020 Jessie McIntyre**, External Examiner for MSc thesis, Acadia University. *Anthropogenic subsidies and contaminant biotransport by Herring gulls (*Larus argentatus*) in southern Nova Scotia* (completed 2020) <https://scholar.acadiau.ca/islandora/object/theses%3A3478>
- 2019 Marion Davies**, Chair for MES thesis defence *Are we out to lunch? Are the dietary strategies we share on social media effective in mitigating climate change?* (completed)
<https://dalspace.library.dal.ca/handle/10222/76783>
- 2018 Bimal Aryal**, Internal Reader for MES thesis defence *Economic and biophysical implications of alternative street-tree spacings in Halifax, Canada.* (completed)
<https://dalspace.library.dal.ca/handle/10222/73519>
- 2017 Stephanie White**, External Examiner for MSc thesis, Acadia University. *Assessment of roadkill impacts on wildlife in Nova Scotia* (completed)
<https://scholar.acadiau.ca/islandora/object/theses:2154>
- 2016 Isaac Muise**, Committee Member and Internal Reader for MES thesis *Agricultural Plastics Waste Management and Recycling in Nova Scotia: Barriers to Implementing A Successful Program* (completed) <https://dalspace.library.dal.ca/handle/10222/71935>
- 2016 Shalan Joudry**, Internal Reader for MES thesis defence *Puktewei: Learning from fire.* (completed) <https://dalspace.library.dal.ca/handle/10222/72599>
- 2016 Adam Cheeseman**, Chair for MES thesis defence *"No nature, no human": An examination of environmental learning experiences of campers participating in an earth education summer camp program.* (completed) <https://dalspace.library.dal.ca/handle/10222/72089>
- 2016 John Evarts**, Chair for MES thesis defence *Energysched Framework: Defining and Designing the Fundamental Land Unit of Renewable Energy* (completed)
<https://dalspace.library.dal.ca/handle/10222/71377>
- 2015 Chris Garda**, Internal Reader for MES thesis defence *Assessing Aquatic Ecosystem Health Benefits Arising from Activities Associated with Community-Based Monitoring* (completed)
<https://dalspace.library.dal.ca/handle/10222/64676>
- 2015 Jessica Cosham**, Internal Reader for MES thesis *Invasive Green crab as a potential bait resource* (completed) <https://dalspace.library.dal.ca/handle/10222/58801>
- 2015 Tim Cashion**, Chair for MES thesis *The Fish we Feed Fish: An Evaluation of Primary Production Requirements and Greenhouse Gas Emissions of Reduction Fisheries in the Age of Sustainable Boundaries* (completed) <https://dalspace.library.dal.ca/handle/10222/58984>
- 2015 Francois Bregha**, Chair for MES thesis *Contextualizing the impact of ocean acidification on veliger growth for three commercially important bivalve molluscs* (completed)
<https://dalspace.library.dal.ca/handle/10222/56320>
- 2015 Francisco Bravo**, External Examiner for PhD Proposal Defence, Department of Oceanography, Dalhousie University *Multi scale assessment and simulation of sediment biogeochemical cycles in coastal areas: implications for ecosystem functioning and provision of services* (completed)
<https://dalspace.library.dal.ca/handle/10222/73192>
- 2014 Christine Stortini**, Chair for MES thesis *Marine climate change vulnerability assessment development, uses, and limitations as a tool for climate adaptation* (completed)
<https://dalspace.library.dal.ca/handle/10222/56029>

11.6. Research Assistant Supervision

- Sep 2022 – Dec 2022 Jillian Shaw, Research Assistant** *Metal contaminants in honeybee honey samples collected by citizen scientist in the NW of England.* An RA position to spatially characterize metal contaminants in honey samples

- Jan 2021 – Dec 2021 Shen Molloy and Priyanka Varkey, Research Assistants, Divert NS Reversing single-use plastic use during and post-COVID-19 pandemic in Nova Scotia** (paper published in *Sustainable Production and Consumption*)
- Jan 2020 – Dec 2021 Claire Hughson, Research Assistant Metal contaminants in fish tissue in the Russian Arctic**
- Apr 2020 – Aug 2020 Lyndsay Eichinger, Research Assistant Boat Harbour remediation options** (paper published in *Remediation Journal*)
- Jan 2020 – Jan 2021 Jamie Smythe, Research Assistant Metal contaminants in honeybee honey samples collected by citizen scientist in the NW of England.** An RA position to spatially characterize metal contaminants in honey samples
- Jan 2019 – Jan 2021 Alexa Goodman, Research Assistant Benthic marine debris in the Bay of Fundy, Eastern Canada: Spatial distribution and categorization from seafloor video footage** An RA position co-funded by Dr. Craig Brown at NSCC (paper published in *Marine Pollution Bulletin*)
- May 2017 - Jun 2017 Jessica Romo, Research Assistant Baseline assessment of contaminants in marine biota prior to remediation of industrial effluent impacted sediments in a former tidal estuary in Nova Scotia, Canada** A desktop review of government reports to help develop baseline marine biota contaminant concentrations to support development remediation monitoring programs (paper published in *Marine Pollution Bulletin*)
- May 2016 – Jun 2017 Emma Hoffman, Research Assistant Holistic Review of Boat Harbour Reports** A desktop review of over 140 reports to support planning phases of a large-scale remediation project and to help develop full scope of remedial options for Boat Harbour (a contaminated wastewater treatment facility for a kraft pulp and paper mill in Nova Scotia) (two papers published in *Environmental Monitoring and Assessment*)
- May 2016 – Sep 2016 Farrah Stevens, Research Assistant Boat Harbour Project Reference Site Selection** A desktop review of background information to establish a true baseline and reference site for the Boat Harbour Remediation Project
- May 2016 Mitchell Downton, Research Assistant Declines in Arctic Ocean oil and gas developments** A short contract to help write a research paper which was published in *Marine Policy*

12. SERVICE AND ACTIVITY

12.1. SRES, Dalhousie University

- 2023-2023** Committee Member, SRES 50th Anniversary Celebration Committee
- 2022-2023** Committee Member, SRES Admissions Committee (6th year)
- 2022-2022** Chair, SRES Tenure and Promotion Committee, re-appointment of Assistant Professor Dr. Alana Westwood to Tenure Track
- 2021-2022** Committee Member, SRES Admissions Committee (5th year)
- 2021-2022** Chair and Committee Member, Search Committee, Instructor (F286P), SRES
- 2020-2021** Chair, Search Committee, Limited Term Instructor Position, SRES
- 2020-2021** Committee Member, SRES Admissions Committee (4th year)
- 2019-2020** Committee Member, SRES Admissions Committee (3rd year)
- 2018-2019** Committee Member, SRES Admissions Committee (2nd year)
- 2017-2018** Committee Member, Student Reinstatement Review Committee
- 2015-2017** Committee Member, SRES Admissions Committee (1st year)
- 2015-2016** MREM curriculum review committee with Dr. Kate Sherran and Dr. Peter Tyedmers

- 2015-2016** Killam Postdoctoral Fellowship Review Committee with Dr. Peter Tyedmers
2017-2018 MREM Internship Director (4th year)
2016-2017 MREM Internship Director (3rd year)
2015-2016 MREM Internship Director (2nd year)
2014-2015 MREM Internship Director (1st year)

12.2. *Faculty of Management, Dalhousie University*

- 2022-2022** Committee Member, re-appointment Director of SRES Review Committee
2021-2022 Committee Member, Tenure and Promotion, Faculty of Management
2020-2021 Committee Member, Constitution Review, Faculty of Management
2019-2019 Committee Member, Management Research Advisory Committee, Faculty of Management
2018-2019 Committee Member, SRES Director Search Committee
2017-2022 Committee Member, Strategic Priority 2.2 Champion, Faculty of Management
2017-2018 Committee Member, Social License Survey Advisory Committee, Faculty of Management
2017-2017 Committee Member, Ethics in Action Committee
2017-2017 Committee Member, Review committee for the Associate Dean (Projects and Planning), Faculty of Management
2017-2017 Committee Member, re-appointment Director of SRES Review Committee
2016-2017 Committee Member, Task force for the strategic renewal process for the Faculty of Management

12.3. *Dalhousie University*

- 2022-2025** Cross-listed in the College of Sustainability (CoS), Dalhousie University
2021- Academic Cross Appointment (323000-01), Earth & Environmental Sciences, Faculty of Science, Dalhousie University
2021-2023 Committee Member, Senate Member, Faculty of Management, Dalhousie University
2021-2022 Committee Member, Earth and Environmental Sciences Geoscience Search Committee, Tenure Track Faculty Position (F234P), Dalhousie University
2019-2019 Committee Member, Decanal Search Committee for the Faculty of Management. Chaired by Dr. Teri Balsler, Interim President and Vice Chancellor, Dalhousie University
2019- Participant in Dalhousie's first survey of faculty interest in and engagement with the United Nations' Sustainable Development Goals (SDGs). Invited by Dr. Alice Aiken, Vice-President Research & Innovation (VIPRI)
2019- Member of the Clean Technologies Research Institute (CTRI), Dalhousie University
2017- Contributing faculty member at the Centre for Water Resources Studies (CWRS), Dalhousie University
2016-2017 Committee Member, Dalhousie University Committee to Investigate Scholarly Integrity, Dalhousie University
2015- Faculty of Graduate Studies (FGS) Member
2015- Cross-listed in the Environmental Science Program (ESP), Dalhousie University

12.4. *Committee and Network Participation Outside of Dalhousie University*

- 2023** Invited by the Deputy Minister of the Environment and Climate Change Canada (ECCC) to participate in a roundtable discussion on how Canada can support global efforts leading up to the 2nd discussions of the Plastics Treaty Intergovernmental Negotiating Committee (INC2) to end plastic pollution.

- 2022-** Committee Member, working to develop a National Standard on Plastics Recycling, Canadian Standards Association (CSA).
- 2022-** Committee Member, "Scientists' Network for an Effective Plastics Treaty (SNEPT)" group. SNEPT is a group of 120 International Scientists concerned about existential threats of plastic pollution. SNEPT provides evidence-based decision making and technical advice for UNEP.
- 2022** Invited by Invited by the Deputy Minister of the Environment and Climate Change Canada (ECCC) to participate in a roundtable discussion on how Canada can support global efforts leading up to the first discussions of the Plastics Treaty Intergovernmental Negotiating Committee (INC1) to end plastic pollution.
- 2022** Invited by the Canada Research Chairs Program to review the CRC nomination of Dr Anne-Marie Boulay, Department of Chemical Engineering at Polytechnique Montreal (CRC-2021-00559).
- 2022** Invited by Dr. Sophie Aure, Department of Chemical Engineering at Polytechnique Montreal to serve as an external reviewer for Professor Anne-Marie Boulay for promotion to Associate Professor at Polytechnique Montreal.
- 2019-2021** Co-Chair and Organizing Committee, Canadian Ecotoxicity Workshop (CEW) Conference, Halifax 2021. <https://ecotoxcan.ca/>
- 2021** Invited by Dr. Nola Etkin, Dean of Science, University of Prince Edward Island (UPEI) to serve as an external reviewer for Dr. Nino Antadze for promotion to Associate Professor at the UPEI.
- 2020-2021** Invited by the Government of Canada to serve on the review committee for the SAPEA Evidence Review Report 'Biodegradability of plastics in the open environment' on behalf of German National Academy of Sciences Leopoldina.
- 2019-2020** Invited by Canada's Chief Science Advisor to participate in the G7 Scientific workshop, *Plastic in the environment: socio-ecological challenges*. Participated in this G7 Scientific workshop with the Canadian delegation led by Chief Scientist Dr. Mona Nemer in Paris, France Oct 14-15. I was a member of the scientific committee on socio-ecological issues. <https://www.enseignementsup-recherche.gouv.fr/cid146216/atelier-plastiques-dans-l-environnement-dans-le-cadre-du-g7.html>
- 2019-2020** Steering Committee Member for the 2nd Clean Ocean Summit held in Halifax Nov 18-19, 2019. The 2nd Clean Ocean Summit was organized by the Clean Foundation, through the support of Environment and Climate Change Canada (ECCC).
- 2019-** Member, Technical Advisory Committee (TAC) of MarILCA (Marine Impacts in LCA) (www.marilca.org). A working group to address the issue of marine plastics in LCA.
- 2019-** Member, PLA-NET The Plastic Network. PLA-NET – a platform about plastics in freshwater and coastal environments to boost information exchange between various global regions. <https://www.plastic-network.org/dalhousie-university-school-for-resource-and-environmental-studies/>
- 2019-** Committee Member, Microplastics Working Group. Participants include members from academia, plastics industry, provincial and federal government (Nova Scotia Environment (NSE), Environment and Climate Change Canada (ECCC) and NGOs (Clean Foundation, WWF-Canada).
- 2019-** Co-Chair, Single-use plastic Working Group. Participants include members from academia, plastics industry, provincial and federal government (Nova Scotia Environment (NSE), Environment and Climate Change Canada (ECCC) and NGOs (Clean Foundation, WWF-Canada).
- 2018-** Steering Committee Member for the Clean Ocean Summit held in St. Andrews Nov 25-27, 2018. The Clean Ocean Summit was organized by the Clean Foundation, through the

- support of Fisheries and Oceans Canada (DFO), Environment and Climate Change Canada (ECCC) and Divert NS.
- 2018-** Member of the Global Partnership on Marine Litter (GPML), the premier global network for advancing solutions to reduce and eliminate marine litter in our oceans. Coordinated by the United Nations Environment Programme.
- 2018-** Invited by the Deputy Minister of the Environment and Climate Change Canada to participate in a *Leaders and Experts Roundtable on Plastics and Marine Litter* co-hosted by Environment and Climate Change Canada. Participated in this meeting to advise the federal government on strategies to reduce plastic waste and plastic marine pollution. Vancouver Aquarium, Vancouver, BC.
- 2017-** Member of the Air Quality Data Analysis Working Group (AQDAWG). Regional group of technical experts who work on monitoring air pollution and air quality. Meetings held twice per year.
- 2016** Canadian Land Reclamation Association – Atlantic Reclamation Conference, Co-chair
- 2016** Committee Member, Ecological Condition Monitoring Committee for Fundy National Park, Parks Canada Assisting Parks Canada with development and review of their ecological condition Monitoring Plans for Fundy National Park
- 2015-** Boat Harbour Environmental Advisory Committee (BHEAC)
- 2014-** Registered Environmental Professional (ECO-Canada)
- 2012-** Canadian Land Reclamation Association
- 2009-2012** Member of the College of Applied Biology
- 2009-2012** Registered Professional Biologist (R.P.Bio)
- 2008-2010** President of the Inglewood Condominium Board (volunteer position)
- 2008-** On the Canadian Species at Risk Public Registry
- 2008-** Canadian Environmental Network (RCEN) member
- 2008-** Nova Scotia Environmental Network (NSEN) member
- 2006-2010** The Ecological Monitoring and Assessment Network (EMAN)
- 2005-** British Antarctic Club Member
- 2004-** Atlantic Coastal Zone Information Steering Committee (ACZISC)
- 2004-2006** Network of Centres of Excellence of Canada (ArcticNet)
- 2006-** Environmental Services Association of Nova Scotia (ESANS), now Environmental Services Association of the Maritimes (ESAM)
- 2004-2006** Canada's Research Network in Aquaculture (AquaNet)
- 2004-2006** Aquaculture Association of Nova Scotia (AANS)
- 2003-2008** Canadian Arctic Shelves Exchange Study (CASES)
- 2000-2002** Sustainable Pechora In a Changing Environment and Society (SPICE)
- 1998-2000** Tundra degradation in the Russian Arctic (TUNDRA)
- 1993-1996** Convention on the Conservation of Antarctic Marine Living Resources (CCAMLR)

















12.5. Editorial Responsibilities

- 2022-** Editor *Cambridge Prisms: Plastics*, Cambridge University Press (IF = N/A)
<https://www.cambridge.org/core/journals/cambridge-prisms-plastics/information/about-this-journal/editorial-board>
- 2022-2023** Guest Editor *Journal of Hazardous Materials Advances*, Elsevier (IF = N/A)
Special Issue “COVID-19 and the Environment: Challenges and recent advances in sustainable mitigative measures”
<https://www.sciencedirect.com/journal/journal-of-hazardous-materials-advances/special-issue/10D0SW5MFH2>
- 2021-2022** Guest Editor *Environment International*, Elsevier (IF = 13.352)

- Special Issue "Micro(nano)plastic toxicity and health effects"**
<https://www.sciencedirect.com/journal/environment-international/special-issue/10C7XW7ZJH9>
- 2021-2022** Guest Editor *Frontiers in Marine Science Marine Pollution*, Frontiers (IF = 5.247)
- Special Issue "Alternatives to petroleum-based plastics as a potential solution to the global plastic pollution crisis in marine environments: Do they provide sustainable solutions?"**
- 2021-2022** Guest Editor *Microplastics*, MDPI, (IF = N/A)
- Special Issue "Ecotoxicological Impacts of Micro(Nano)plastics in the Environment: Biotic and Abiotic Interactions"**
https://www.mdpi.com/journal/microplastics/special-issues/Ecotoxicological_Impacts_Microplastics#info
- 2021** Editorial Board *Water, Air and Soil Pollution*, Springer (IF = 1.900)
- 2020-** Associate Editor, Guest Editor, Editorial Board Member *Microplastics*, MDPI, (IF = N/A)
<https://www.mdpi.com/journal/microplastics/editors>
- 2020-** Editorial Board *Pollutants*, MDPI, (IF = N/A)
<https://www.mdpi.com/journal/pollutants/editors>
- 2020-** Associate Editor *Marine Pollution Bulletin*, Elsevier (IF = 7.001)
<https://www.journals.elsevier.com/marine-pollution-bulletin/editorial-board/t-r-walker-phd>
- 2019-** Editorial Board *Sustainability*, MDPI (IF = 3.889) Section Board for 'Sustainable Use of the Environment and Resources'
<https://www.mdpi.com/journal/sustainability/sectioneditors/environment-and-resources>
- 2014-** Review editor for *Frontiers in Marine Science* for the topics *Marine Pollution* and *Marine Biogeochemistry* http://www.frontiersin.org/Marine_Science/about
- 2005-2015** Editorial Board *Ecological Indicators* for 10 years
<http://www.journals.elsevier.com/ecological-indicators/editorial-board/>
- 2005-** Editorial advisory board *Polish Polar Research* <http://versita.com/ppr/editors/>

Editorial board memberships

CURRENT MEMBERSHIPS

 Microplastics 	 Pollutants 
 Sustainability  	 Environment International 
 Frontiers in Marine Science 	 Journal of Hazardous Materials Advances
 Marine Pollution Bulletin 	 Polish Polar Research 

PAST MEMBERSHIPS

 Ecological Indicators 	 Frontiers in Earth Science 
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12.6. Verified Editor Records

I have served as editor for **6** different academic journals, performing **194 editorial decisions**
<https://www.webofscience.com/wos/author/record/118761>

1. (180) Marine Pollution Bulletin
2. (16) Sustainability
3. (7) Microplastics
4. (5) Environment International
5. (1) Frontiers in Marine Science
6. (1) Pollutants

12.7. Ad-hoc Reviewer for Academic Journals

I have served as reviewer for **55** different academic journals, performing **191 reviews** for **150** manuscripts <https://www.webofscience.com/wos/author/record/118761>

7. (27) Ecological Indicators
8. (21) Marine Pollution Bulletin
9. (12) Science of the Total Environment
10. (10) Environmental Monitoring and Assessment
11. (8) Environmental Science and Pollution Research
12. (8) Marine Policy
13. (6) Environmental Pollution
14. (6) Polish Polar Research
15. (5) One Earth
16. (5) Regional Studies in Marine Science
17. (4) Ocean and Coastal Management
18. (4) Resources, Conservation and Recycling
19. (3) Arctic Science
20. (3) Environment International
21. (3) Estuarine, Coastal and Shelf Science
22. (3) Frontiers in Marine Science
23. (3) Journal of Environmental Management
24. (3) Journal of Hazardous Materials
25. (3) Journal of Soils and Sediments
26. (3) Ocean Yearbook
27. (2) Atmospheric Environment
28. (2) Chemical Engineering Journal
29. (2) Current Biology
30. (2) Environmental Politics
31. (2) Environmental Science & Policy
32. (2) Environmental Science & Technology Letters
33. (2) European Journal of International Relations
34. (2) Journal of Cleaner Production
35. (2) Journal of Coastal Research
36. (2) Journal of Marine Systems
37. (2) Nature Communications
38. (2) Plos One
39. (2) Polar Research
40. (2) Soil and Sediment Contamination
41. (2) Toxicological and Environmental Chemistry

42. (2) Waste Management
43. (1) Cambridge Prisms: Plastics
44. (1) Trends in Analytical Chemistry
45. (1) Atlantic Geology
46. (1) Biogeosciences
47. (1) Biological Conservation
48. (1) Canadian Journal of Fisheries and Aquatic Sciences
49. (1) Chemistry and Ecology
50. (1) Cogent Engineering
51. (1) Current Opinion in Environmental Science & Health
52. (1) Dalhousie Journal of Interdisciplinary Management
53. (1) Environmental Challenges
54. (1) Frontiers in Environmental Science
55. (1) Global Environmental Politics
56. (1) Italian Journal of Mycology
57. (1) Journal of Experimental Marine Biology and Ecology
58. (1) Nature Reviews Earth & Environment
59. (1) Thalassas: An International Journal of Marine Sciences
60. (1) UBC Law Review
61. (1) Water, Air, & Soil Pollution

12.8. Reviewer for Funding Councils and Agencies

- 2022** External scientific peer review for University of California Berkeley of California Environment Protection Agency (CalEPA) R9 San Diego Bay Sediment Pollutants: Evaluation of Contemporary Ambient Background Concentrations Staff Technical Report, November 2021
- 2022** External scientific peer review for University of California Berkeley of California Environment Protection Agency (CalEPA) Microplastics Definition, Analytical Method, Handbook, and Health Effects Guidance Language document, January 2022
- 2020** PEW Charitable Trusts – Global Plastics Policy Analysis
- 2016** Nova Scotia Health Research Foundation
- 2015-** Czech Science Foundation
- 2015-** Russian International Affairs Council (RIAC), the Review Board of the Russian Science Foundation (RSF)
- 2014** National Center of Science and Technology Evaluation, Ministry of Education and Science, Republic of Kazakhstan
- 2013** RSF in partnership with the New Eurasia Foundation
- 2013** National Center of Science and Technology Evaluation, Ministry of Education and Science, Republic of Kazakhstan
- 2012** National Center of Science and Technology Evaluation, Ministry of Education and Science, Republic of Kazakhstan
- 2011** RSF in partnership with the New Eurasia Foundation
- 2011** National Center of Science and Technology Evaluation, Ministry of Education and Science, Republic of Kazakhstan
- 2006** National Science Foundation
- 2006** Netherlands Organisation for Scientific Research-Council for Earth and Life Sciences

12.9. International Work and Collaboration

Argentina; Denmark; El Salvador; Finland; France; G7; Kazakhstan; Netherlands; Poland; Russian Federation; United Kingdom (UK); UK (Antarctica); UK (Falkland Islands); USA, Vietnam.

13. EXTRACURRICULAR

Before becoming a father to boy and girl twins in 2013, my interests included: running, biking, triathlon (Triathlon Nova Scotia age group winner in 2004, runner up in 2003); wildlife and landscape photography; backpacking and hiking; cycle touring and mountain biking; sea-kayaking; skiing; organic vegetable gardening; cooking and eating local produce; home-brewing; bird watching; diabetes and active living awareness.