

Revised May 2021

CAREER OBJECTIVE:

To contribute to the renewal, protection and sustainability of natural and cultural heritage features locally, regionally and globally by advancing the bond between science, policy, and society.

To be a recognized leader in environmental renewal through innovative partnerships and strategic linkages among environment, economic, and social systems.

To ensure that environmental vitality remains on the societal and political agenda by clearly articulating and evaluating ecosystem-based policies and programs.

CURRENT OCCUPATION:

- Engineering and Public Policy Program, Booth School of Engineering Practice and Technology, McMaster University
- Associate Faculty Member, Geography and Earth Sciences, McMaster University
- Associate Faculty Member, Political Science, McMaster University
- Adjunct Professor, UNU INWEH, Hamilton Ontario;
- Adjunct Professor, Royal Rhodes University, BC.

PREVIOUS POSITIONS:

- Director, Great Lakes Regional Office, International Joint Commission. Windsor, Ontario.
- Ontario Ministry of Environment
 - Senior Policy Advisor
 - Great Lakes Strategic Policy Advisor
 - Remedial Action Plan Program Coordinator
 - Collingwood Harbour Remedial Action Plan Coordinator
 - Sediment Specialist/Ecotoxicologist

ACADEMIC POSITIONS

Professor, McMaster University, Engineering and Public Policy Program (2005-ongoing)

Associate Faculty Member, Geography and Earth Sciences, McMaster University (2009 - ongoing)

Associate Faculty Member, Political Science, McMaster University (2017 - ongoing)

Adjunct Professor, UNU INWEH, Hamilton Ontario. 2007- ongoing

Associate Faculty Member, University of Toronto, Institute for Environmental Studies (1988-2003)

- Curriculum development and delivery for courses on Aquatic Pollution to students in the joint M.E.S./M.Sc. Masters' program from botany, zoology, geography, engineering, planning, anthropology, and other disciplines
- Served on numerous graduate supervisory teams as advisor on ecotoxicology, limnology, and environmental management

Adjunct Professor, Royal Roads University, Faculty of Social and Applied Science, Office of Interdisciplinary Studies (2010 - ongoing)

Associate Faculty Member, York University, Faculty of Environmental Studies (1992 – 2001)

- Curriculum development and delivery for courses on Restoration Ecology to students in the Masters' program from biology, land use planning, sociology, political science, engineering, and other disciplines
- Served on graduate supervisory teams as advisor on restoration ecology, and interjurisdictional environmental management

Affiliate, George Brown College, Toronto (2003- 2006)

- Curriculum development for undergraduate core course program in aquatic chemistry and site remediation for the College's new Environmental Engineering Diploma program.

GRADUATE SUPERVISION

- Masters of Engineering and Public Policy: 120 graduates, 24 on-going
- Ph.D. six Graduates, two on-going,

DEGREES

- Postdoctoral Fellowship, Ontario Ministry of Environment/University of Toronto, 1988.
- Ph.D. University of Toronto, 1987.
- M.Sc./M.E.S., University of Toronto, 1981.
- B. Sc., Honours Biology, University Scholar, McGill University, Montreal, Que'79.

AWARDS

- 2020 Anderson-Everett Award, to the International Joint Commission Great Lakes Regional Office and advisory boards. From: International Association for Great Lakes Research. (Krantberg has been a member of the Advisory Boards and Director of the IJC Great Lakes Regional Office)
- 2019 Canadian Who's Who, 2017. Grey House Publishing Canada
- 2017 Canadian Who's Who, 2017. Grey House Publishing Canada
- 2015 Ontario Volunteer Service Awards, Government of Ontario
- 2007 MacGreen Environmental Award Recipient
- 2007 Woman of the Year, American Biographical Institute
- 1998 Amethyst Award for excellence in public service, Province of Ontario
- 1980-1986 Recipient of NSERC research grants for development of models to predict metal bioavailability, toxicity, fate and transport in freshwater ecosystem and freshwater sediment
- 1981 Langford Prize for contributions to environmental research and service to the Institute for Environmental Studies, University of Toronto.
- 1979 University Scholar, McGill University, Montreal

SKILLS

- superior written and oral communication abilities
- expert analytical and strategic problem solving capabilities
- team leadership
- excellent facilitation skills
- well developed, project planning and management skills
- issues management
- media relations
- alternative service delivery through private-public sector partnerships
- effective management of staff and volunteers
- successful in achieving consensus through conflict resolution
- networking with expert contacts within and outside of government, academia, locally, regionally and internationally
- quick to acquire new skills and apply new concepts
- public speaking
- highly self motivated

AREAS OF EXPERTISE

- Interface of science and policy
- Domestic and international environmental agreements
- Domestic and international regulatory frameworks, enforcement and compliance
- Development and delivery of workplans and business plans
- Performance development and performance appraisals
- Negotiation and consultation with external and internal stakeholders
- Communications and media interaction
- Stakeholder consultation
- Public outreach and education
- Strategic policy analysis
- Management of a multimillion dollar binational budget
- Staff and volunteer training and management
- Innovative solutions
- Great Lakes rehabilitation, conservation and protection
- Watershed Planning and Source Water Protection
- Ecosystem monitoring, surveillance, and objective setting
- Evaluation of environmental quality
- Nonprofit Organization and Foundation operations

SCIENTIFIC/ TECHNICAL EXPERTISE:

- Climate change impacts in the Great Lakes region
- Invasive species risk assessment and control
- Riparian zone rehabilitation and bioengineering
- Applications of constructed wetland for habitat and contaminant mitigation
- Fish and wildlife habitat rehabilitation and restoration
- Development of ecosystem objectives and indicators
- Limnology
- Ecotoxicology
- Ecology and evolutionary ecology
- Biology (cellular, organismal, invertebrate and vertebrate), physiology
- Inorganic and organic chemistry
- Biogeochemistry
- State of the Lake reporting
- Modelling the sources and pathways of persistent toxic chemicals and inorganic chemicals
- Development and implementation of remedial action plans for environmental revitalization
- Metal bioavailability, bioaccumulation, and modes of toxicity
- Assessment and remediation techniques for contaminated sediment
- Biological guidelines/criteria for ecosystem management
- Storm-water and non-point source pollution management
- Innovative infrastructure renewal methods, low impact development
- Design and measurement of performance indicators
- International, national, regional, local regulatory regimes

COMMITTEES AND BOARDS:

1. Hamilton Community Energy and Emissions Plan Committee January 2021 -
2. Chair, Ph.D. Final Defense. Katherine Walen. Geography and Earth Sciences. July 2020
3. SEPT T&P Committee 2008 -
4. SEPT Selection Committee, Director of the Booth School. May - November 2020
5. Chair, Ph.D. Final Defense. Olivier Champagne Geography and Earth Sciences Wednesday, February 5, 2020
6. Chair, SEPT International Conference on Engineering Practice and Innovative Knowledge (EPIK) 2020-2022
7. SEPT Committee for selecting a Faculty position in Biotechnology 2019-2020
8. Canadian CoChair International Joint Commission Science Advisory Board Science Priority Committee 2021 –
9. Canadian CoChair International Joint Commission Science Advisory Board Great Lakes Science Plan 2020 -
10. Request a Scientist volunteer membership: <https://500womenscientists.org/request-a-scientist/>
11. McMaster University Faculty Association (MUFA) Executive. September 2017 -
12. Canadian Water Resource Association Annual Conference: Program Co-Chair 2018-2019
13. The Ontario Climate Consortium, Academic Expert Panel on science based handbook for assessing climate vulnerabilities on water quality in drinking water sources in Ontario 2017 -
14. Recognized Reviewer Status, Aquatic Ecosystem Health and Management
15. Great Lakes Early Warning System (GLEWS) Working Group, International Joint Commission, 2017 -
16. Great Art for Great Lakes selection committee 2017
17. Recognized Reviewer Status, *Journal of Hydrology* 2017-present
18. Great Lakes Guardians' Council, Ontario Government 2015-present
19. Patron of the Governor General Great Lakes Initiative 2015 - present
20. McMaster University Climate Change Consortium Member 2012 - present
21. Canada's Mirror Committee SMC/ISO/TC8/SC13, Marine Technology, Standards Council of Canada 2016-present
22. Review of the Great Lakes Institute for Environmental Research (GLIER), University of Windsor 2016.
23. Independent Review Panel, Canadian Environmental Assessment Agency, Milton Logistics Hub project 2016- invited
24. Nearshore Framework Task Team, Great Lakes Water Quality Agreement 2015-2018 (concluded)
25. Extended Annex 2 Subcommittee, Great Lakes Water Quality Agreement 2015-present
26. Annex 9 Subcommittee, Great Lakes Water Quality Agreement 2015-present
27. Patron: Nature Conservancy Women for Nature 2015 - present
28. Phase II of Mowat-CGLR Low Water Levels Project, Cost-Benefit Analysis of Policy Options: Advisory Board 2015 – 2018 (concluded)
29. Georgian Bay Forever Board of Directors 2012 - 2015
30. Program Committee Co-Chair, Canadian Water Resources Association 2013-2014
31. Search Committee, Faculty of Engineering and Faculty of Social Science: AMD Chair in Advanced Manufacturing 2014-2015

32. Program Committee Chair, International Association for Great Lakes Research Annual Conference 2013-2014
33. GLIN Labs Advisory Panel (Great Lakes Information Network) 2009-
34. National Citizens Advisory Panel on Responsible Care. 2007 - Environmental Advisory Panel. NRTEE on Water. 2009 - 2013
35. Environmental Assessment Working Group. EC and HC. 2008 - 2011
36. Great Lakes Water Quality Agreement Renegotiation: Stakeholder Advisory Panel, Environment Canada 2010-2012
37. Great Lakes Fishery Commission: Board of Technical Experts; Co-Chair: Human Dimensions. 2009-2013
38. Great Lakes Economics Study Advisory Group; Government of Ontario 2010-11
39. Conference Chair. Energy2100: Making the Lakes Great. 2007 - 2008
40. Conference CoChair. Engineering in a Climate of Change: Making the Lakes Great 2009 - 2010
41. Search Committee, Faculty of Engineering and Faculty of Social Science: Water Policy Professor 2012
42. Search Committee, Faculty of Engineering, Associate Dean Graduate Studies 2009
43. Search Committee, Faculty of Engineering, Director, School of Engineering Practice 2009
44. Ontario Marine Transportation Advisory Panel (to the Minister of Transportation). 2007 -
45. Great Lakes Observing System. Regional Association Board Member 2006-2010
46. City of Toronto Wet Weather Management Master Plan Implementation Advisory Committee 2006 - 2010
47. Great Lakes Water Quality Agreement Review Working Group Member. 2006 - 2007
48. Canadian Association for Water Quality. Board Member 2005 -
49. Clean Water Foundation (2003- , founding Board member)
50. NSERC site visit committee for evaluation and ultimate approval of a multi-million dollar, multiyear collaboration among scores of academic and government researchers' project entitled "Metals in the Holistic Environment". 2004
51. Great Lakes Commission (IJC observer) 2001-2005
52. Agreement (Great Lakes Water Quality Agreement) Review Scoping Committee (2003-2006)
53. Centre for Environmental Health for Ontario (2003, founding Board member, past president)
54. Binational Executive Committee (Ontario member 1994-2001) (IJC observer) 2001-2005
55. Canada/Ontario Agreement Negotiation Team; Provincial Lead, 1999-2001
56. IJC Council of Great Lakes Research Managers 1998-2001
57. Binational Steering Committee on the review of the Great Lakes Water Quality Agreement 1997-1999
58. State of the Lakes Environment Conference Organizing Committee 1997-2001
59. Douglas Botanical Park and Nature Centre 1998- 2008 (founding member)
60. IJC Water Quality Board acting member 1996-2001
61. IJC Indicators Implementation Task Force 1997 - 1999
62. IJC Sediment Priority Action Committee 1996-2001
63. Great Lakes Communicators Network 1998 - 2005
64. International Association of Great Lakes Research 1995-1998 (president, 1997)
65. International Association of Great Lakes Research 5 Year Business Plan Committee 2004-2008
66. Toronto Community Foundation Environmental Advisory Panel: 1998-2001
67. Great Lakes Renewal Foundation: Senior Scientific Advisor: 1998- 2001
68. Collingwood Harbour Remedial Action Plan 1988-1994, Coordinator

69. Collingwood Harbour RAP ENVIROPARK committee 1988-1993
70. Collingwood Harbour RAP Habitat Rehabilitation Committee 1990-1993
71. Collingwood Harbour RAP Sewage Infrastructure Committee 1989-1993
72. Collingwood Harbour RAP Sustainability Committee 1992-1994
73. Ecosystem Objectives Working Group of the Binational Objectives Committee, 1989-1995
74. Canada/Ontario Remedial Action Plan Steering Committee 1994-2001, Chair

Lifetime Research Funding

SSHRC, 2012, \$24,000

Water Policy, Economic, and Governance Network, Subgrant from Brock University Steven Rensetti PI

SSHRC, 2012, \$25,000

Great Lakes Policy Research Network. Subgrant from Ryerson University Carolyn Johns PI

Transboundary Research University Network, 2012, \$5,000

Great Lakes Futures Scenario Project. Irena Creed, University of Western Ontario PI

SSHRC, 2013, \$21,000 over three years

Community First: Impact of Community Engagement, Geri Brigg PI

NSERC Create 2013: Great Lakes Multiple Stressors. \$21,00/yr for 3 years = \$63,000, Paul Silbey
University of Guelph PI

Canadian Water Network: 2014 Development of Integrated Risk Management Framework for Municipal Water Systems \$35,000 for 18 months Ed McBean, University of Guelph, PI

NSERC Create 2015: Great Lakes Multiple Stressors. \$21,00/yr for 3 years = \$63,000, Paul Silbey
University of Guelph PI

CFREF 2017, Lake Futures: Enhancing Adaptive Capacity And Resilience Of Lakes
And Their Watersheds \$65,000/yr for 3 yrs, possibility for extension to 7 years.
Basu University of Waterloo, PI

NSERC 2020: LOI 2D Nanomaterials-based Electrochemical Sensors for Plastic Pollutants Monitoring
Matiar R. Howlader, PI 327947 \$250,000 over 4 years; LOI accepted for full proposal

Gail Krantzberg PI

Ministry of Environment Conservation and Parks 2021 \$964,341
COVID-19-Krantzberg-MAC IRF 2020-COVID19 WASTEWATER

Mitacs' Accelerate 2021 \$70,000
COVID-19 Wastewater Surveillance and Vaccine Effectiveness Tracking

Mitacs' Globalink Research Internship 2021 \$15,000
Great Lakes Governance Indicators

Mitacs' Globalink Research Internship 2021 \$15,000
Decision Support System to Control Eutrophication in the Lower Great Lakes

NSERC Accelerate 2021: Building the capacity of Ontario to track COVID-19 in wastewater and sewersheds. Krantzberg PI , \$1,000,000 over 5 years, *pending*.

Faculty of Engineering 2020, \$150,000 Bridge financing for Covid-19 in wastewater research

MITACs Accelerate 2020 \$45,000
Development of Strategy and Implementation Plan to Introduce AI based RainGrid's Disruptive Digital Stormwater Smartgrid Technology in North American Markets in an era of Global Climate Change

Mitacs' Globalink Research Internship 2019 \$15,000
Decision Support System to Control Eutrophication from Agricultural Sources

Great Lakes Collaborative. 2018-19 \$58,000
Environment and Climate Change Canada Great Lakes priority research in support of the Great Lakes Collaborative issue tables

Mitacs' Globalink Research Internship 2019 \$15,000
Great Lakes Governance Indicators

Hamilton Chamber of Commerce, 2012, \$21,000
Regeneration Institute for the Great Lakes

Canadian Food Inspection Agency, 2011, \$14,000
Leadership Training for the Public Service

Ontario Ministry of Environment 2010 \$25,000
Strategic Advice on Great Lakes Futures

Environment Canada, 2010 \$7,000
Review of the State of the Lakes Ecosystem Indicators

International Joint Commission, 2010 \$20,000
The 15th biennial report on progress in implementing the GLWQA

International joint commission 2009 \$15,000

Decision Analysis, Adaptive Management, and accountability for a great lakes nearshore Framework

Ontario Ministry of Environment 2009, \$25,000

Strategic Advice on the Great Lakes Water Quality Agreement

Ontario Ministry of Environment 2009, \$50,000

Vulnerability of beneficial uses to climate change in the Great Lakes

Walter Duncan Gordon Foundation, 2008, \$15,000

Great Lakes MetaStrategy

Natural Sciences and Engineering Research Council of Canada, 2007, \$95,000

Decision Analysis models for Great Lakes management

Joyce Foundation, 2006, \$164,000

Great Lakes governance

Ivey Foundation, 2006, \$10,000

Science-Policy futures

PUBLICATIONS

BOOKS

1. *Great Lakes Revival How Restoring Polluted Waters Leads to Rebirth of Great Lakes Communities*. Co-Editors: John H. Hartig, Gail Krantzberg, John C. Austin, Paula McIntyre. 2019. International Association of Great Lakes Research, Elsevier .
2. *Lake Governance*. 2018. A volume in the Water: Emerging Issues and Innovative Responses series, edited by Velma I. Grover and Gail Krantzberg. Taylor & Francis Group, LLC publishing.
3. *The Regeneration Imperative*. 2015. V. Grover, B. Humber, Krantzberg, G. CRC Press.
4. *Urban Regeneration: the Hamilton Brand*. 2014. Krantzberg, G., B. Humber and V. Grover. Regeneration Institute for the Great Lakes and Renew Hamilton
5. *Responsible Care: A Case Study*. 2013. Topalovic, P. and G. Krantzberg (eds). De Gruyter, Germany

6. *Water Co-Management*. 2013. Grover, V. and G. Krantzberg (eds.) CRC Press
7. *Great Lakes Lessons in Participatory Governance*. 2012. V. Grover and G. Krantzberg (eds.). Scientific Research Publishing.
8. *Transboundary Lake Basin Management: Laurentian and African Great Lakes*, 2011. Adeel, Z., Velma I Grover, Gail Krantzberg, Colin Mayfield, Stu Finn, John Gannon, Jim Houston, Marc Gaden, Chris Goddard, Bob Hecky, Ted Lawrence, Dick Nyeko, Oliva Mkumbo, Tom Okurut,, Henry Mwima, and Laurent Ntahuga. UNU-INWEH, Hamilton, Ontario, Canada, 46 pg.
9. *Advances in Water Quality Control*. 2010. Krantzberg, G., A. Tanik, J.S. Antunes do Carmo, A. Indarto, and A. Edka (eds) . Scientific Research Publishing, USA. ISBN 978-1-935068-08-2

Book in preparation:

1. Febria, Catherine and Gail Krantzberg. 2021. Societal values of inland waters: Science and management of inland waters - For whom & by whom? Encyclopaedia of Inland Waters. Elsevier
2. Water Contamination and Innovative Solutions. 2020 edited by Velma I. Grover and Gail Krantzberg. Taylor & Francis Group, LLC publishing
3. Plastic Pollution, Innovation, and Governance. 2021

PUBLICATIONS IN REFEREED JOURNALS/BOOKS:

1. Qureshi, Ahmed Taha and Gail Krantzberg (2021). Repurposing a Community Asset for Revitalizin Cities: Case Study: The Future of FirstOntario Centre in Hamilton. *Health Environ*, 2(1): 62-67
2. Jawed , Zobia, Gail Krantzberg and Sasha Voinson. (2021) Identifying Local Realities and Anticipating Challenges in Building Capacity of Ontario Municipal Wastewater Systems in Tracking for SARS-CoV-2. *International Journal of World Policy and Development Studies* 7, pp: 7-20
3. Alsip Peter J., John H. Hartig, Gail Krantzberg, Katie Williams, Julia Wondolleck. 2021. Evolving Institutional Arrangements for use of an ecosystem approach in restoring Great Lakes Areas of Concern. *Sustainability* 13(3), 1532; [doi:10.3390/su13031532](https://doi.org/10.3390/su13031532)
4. Jetoo, Savitri and Gail Krantzberg 2020 Early Lessons of COVID-19 for Governance of the North American Great Lakes and the Baltic Sea. *World* 1: 317-325
5. Krantzberg, Gail and Zilin Song. 2020. Adaptive Governance for Shared Waters. *International Journal of Water Governance (OpenAccess Library Journal Vol.07 No.10(2020), Article ID:103801,19 pages 10.4236/oalib.1106833*
6. Krantzberg, G. 2020. Examining governance principles that enable RAP implementation and sustainable outcomes. *Ecovision World Monograph Series (EWMS)* (in press)
7. Krantzberg, G. 2020. Plastic Pollution in the Aquatic Environment, Why it matters and what we can do about it. *Water Canada* (May-June P 20 - 21)

8. Hartig, John H., Gail Krantzberg, and Peter Alsip. 2020. 35 Years of Restoring Great Lakes Areas of Concern: Indolent Progress, But Hopeful Future. *Journal of Great Lakes Research*: 46: 429-442 doi: 10.1016/j.jglr.2020.04.004
9. Jean-Philippe Jenny, Orlane Anneville, Yoann Baulaz, Damien Bouffard, Isabelle Domaizon, Serghei Bocaniov, Nathalie Chèvre, Maria Dittrich, Jean-Marcel Dorioz, Erin Dunlop, Gaël Dur, Jean Guillard, Thibault Guinaldo, Aurélien Jamoneau, Stéphan Jacque, Zobia Jawed, Erik Jeppesen, Gail Krantzberg, John Lenters, Barbara Leoni, Michel Meybeck, Veronica Nava, Tina Nöges, Peeter Nöges, Martina Patelli, Victoria Pebbles, Marie-Elodie Perga, Carl R. Ruetz III, Lars Rudstam, Nico Salmaso, Sharma Sapna, Dietmar Straile, Olga Tammeorg, Michael Twiss, Donald G. Uzarski, Anne-Mari Ventela, Warwick F. Vincent, Steven W. Wilhelm, Sten-Åke Wängberg, Gesa A. Weyhenmeyer. 2020. Scientists' Warning to Humanity: Rapid Degradation of the World's Large Lakes. *Journal of Great Lakes Research* Volume 46, Issue 4, August 2020, Pages 686-702
10. Krantzberg, G. 2020. The Great Lakes Remedial Action Plan Program: A Historical and Contemporary Description and Analysis. in: *The First Century of the International Joint Commission* (Edited by Daniel Macfarlane and Murray Clemen) ISBN 978-1-77385-108-2. pp 367-394
11. Abioye, Samson, Sarah Dickson-Anderson and Gail Krantzberg. 2019. Desalination—A potential solution to growing water scarcity: A Case study of Middle East and North Africa. *Journal of Chemical Engineering and Industrial Biotechnology* 5: 1 - 15
12. Krantzberg, G. 2019. Alien Invasive Species Impacts On Large Lake Ecosystems And Their Economic Value. *Earth & Environmental Science Research & Reviews* 2: 1-6
13. Krantzberg, G and N. Farrer. 2019. The Collingwood Harbour Story. in: *Great Lakes Revival How Restoring Polluted Waters Leads to Rebirth of Great Lakes Communities*. Co-Editors: John H. Hartig, Gail Krantzberg, John C. Austin, Paula McIntyre. 2019. International Association of Great Lakes Research, Elsevier . pp 11 - 16
14. Krantzberg, G. 2019. Plastic Pollution in Fresh and Marine Waters: sources, effects and policy responses. *Journal of Waste Resources and Recycling* 1: 1 - 7
15. Krantzberg, G. and P. Hartley . 2019. The destruction of endocrine disruptors in wastewater. *Atlas of Science*. <https://atlasofscience.org/the-destruction-of-endocrine-disruptors-in-wastewater/#more-27826>
16. Khafi Weekes, Gail Krantzberg & Maria Vizeu Pinheiro (2019): Identifying the groundwater sustainability implications of water policy in High-Use situations in the Laurentian Great Lakes basin, *Canadian Water Resources Journal / Revue canadienne des ressources hydriques*, DOI: 10.1080/07011784.2019.1623079
17. J.H. Hartig, G. Krantzberg, M. Munawar, M. Doss, M. Child, R. Kalinauskas, L. Richman & C. Blair (2018) Achievements and lessons learned from the 32-year old Canada-U.S. effort to restore Impaired Beneficial Uses in Great Lakes Areas of Concern, *Aquatic Ecosystem Health & Management*, 21:4, 506-520, DOI: 10.1080/14634988.2018.1539603
18. Jawed, Z. and G. Krantzberg. 2018. A comparative analysis of practitioners' experience in sediment remediation projects to highlight best practices. *Water Quality Research Journal of Canada* 54 (1): 10-33.
19. Krantzberg, G and Paul Hartley. 2018. Feasible policy development and implementation for the destruction of endocrine disruptors in wastewater. *Science of the Total Environment*. 631–632: 246–251
20. Krantzberg, G. 2018. Stormwater As An Asset: Perspectives On Climate Change Resilience And Infrastructure Innovations. *ReNew Canada* (March/April 2018)
21. Krantzberg, Gail and Velma I Grover. 2018. Transboundary Governance in North America, More than 100 years of Development, Operation, and Evolution of the International Joint Commission. *Lake Governance*, "A volume in the Water: Emerging Issues and Innovative Responses series. Taylor and Francis Publishers (Grover VI and G Krantzberg editors) (in press)

22. Krantzberg, G. 2018. Collaborative Governance for the Development and Implementation of Revitalization Plans to enhance and Sustain Ecosystem Resilience. Case Study: Collingwood Harbour, Georgian Bay, Ontario. *Building Bridges: Case Studies on Collaborative Governanc in Canada*. (Rocan, C.M. ed) Invenire Books, Ottawa. (81-112)
23. Krantzberg, G. 2018. The Great Lakes Remedial Action Plan Program, a historical and contemporary description and analysis. *Aquatic Ecosystem Health and Management AEHMS (in press)*
24. Krantzberg, G. 2018. Revisiting Governance Principles for Effective RAP Implementation and Capacity Building. *Aquatic Ecosystem Health and Management (AEHM)* 21:4, 470-477, DOI: 10.1080/14634988.2018.1536501
25. Krantzberg, G. and M. Rich. 2018. Life After Delisting: The Collingwood Harbour Story. *Aquatic Ecosystem Health and Management Aquatic Ecosystem Health and Management AEHM* 21:4, 378-386, DOI: 10.1080/14634988.2018.1526609
26. McLaughlin, C. and Gail Krantzberg. 2018. Remedies For Improving Great Lakes Remedial Action Plans: A Policy Delphi Study. *Aquatic Ecosystem Health and Management AEHMS* 21:4, 493-505, DOI: 10.1080/14634988.2018.1529433
27. Krantzberg, G. 2017. Governance and The Great Lakes Guardians' Council: Who are we and what should we be doing? *Journal of Aquatic Pollution and Toxicology* 1:2 pp 1 - 8
28. Song, A.M., O. Temby, G. Krantzberg, G. Hickey. 2017. Institutional features of US-Canadian transboundary fisheries governance: organizations and networks formal and informal In: *Towards Continental Environmental Policy?* (eds O. Temby and P. Stoett) Suny Press. 2017. pp 156-179
29. Krantzberg G. and S. Theriault. 2017. Would Implementing Responsible Care® Principles Improve the Safety of the Fracking Industry? *International Journal of Sciences* 6: 55-62
30. Krantzberg, Gail, Nick Luymes, Dave Taylor, Douglas Markoff, and Kirushanth Gnanachandran. 2017. A Call for Action to Protect Vernal Ponds in Ontario. *Wetland Science and Practice* March 2017: 20 - 28
31. VanNijnatten, Debora, Carolyn Johns, Kathryn Bryk Friedman, Gail Krantzberg. 2016 Assessing Adaptive Transboundary Governance Capacity in the Great Lakes Basin: The Role of Institutions and Networks. *International Journal of Water Governance* 1 7–32
32. Song, Andrew M., Gordon M. Hickey, Owen Temby, and Gail Krantzberg. 2016. Assessing transboundary scientific collaboration in the Great Lakes of North America. *Journal of Great Lakes Research*. Volume 42, 156–161.
33. Garrick, D, S. Jetto and G. Krantzberg. 2016. Building transboundary water governance capacity for non-point pollution: a comparison of Australia and North America. *International Journal of Water Governance*. *International Journal of Water Governance* 4 (2016) 111–132
34. Jetoo, S., V. I Grover, and G. Krantzberg. 2015. The Toledo drinking water advisory; Suggested Application of the water safety planning approach. *Sustainability* 7(8), 9787-9808.
35. Gail Krantzberg , Irena F. Creed , Kathryn B. Friedman, Katrina L. Laurent, John A. Jackson, Joel Brammeier, Donald Scavia. 2015. Community engagement is critical to achieve a “thriving and prosperous” future for the Great Lakes–St. Lawrence River basin *Journal of Great Lakes Research* 41 Supplement 1 (2015) 188–191
36. Kathryn B. Friedman, Katrina L. Laurent, Gail Krantzberg , Donald Scavia, Irena F. Creed. 2015. The Great Lakes Futures Project: Principles and policy recommendations for making the lakes great. *Journal of Great Lakes Research* 41 Supplement 1 (2015) 171–179

37. Katrina L. Laurent, Donald Scavia, Kathryn B. Friedman, Gail K. Krantzberg, Irena F. Creed. 2015 . Critical forces defining alternative futures for the Great Lakes–St. Lawrence River basin. *Journal of Great Lakes Research* 41 Supplement 1 (2015) 131–138
38. Laurent, K.L., Friedman, K.B., Krantzberg, G., Scavia, D., Creed, I. 2015. Scenario Analysis: An Integrative and Effective Method for Bridging Disciplines and Achieving a Thriving Great Lakes–St. Lawrence River Basin. *Journal of Great Lakes Research* 41 Supplement 1 (2015) 12–19
39. Laurent, K.L., D. Scavia, K.B. Friedman, G. Krantzberg, I.F. Creed. 2015. Critical forces directing the future: how two highly important and highly uncertain axes of analysis can frame alternate futures for the Great Lakes–St. Lawrence River Basin. *Journal of Great Lakes Research Supplement 1 (2015) 131-138*
40. Friedman, K., K.L. Laurent, G. Krantzberg, D. Scavia, I.F. Creed . 2015. The Great Lakes Futures Project: A framework and recommendations for keeping the lakes great. *Journal of Great Lakes Research Supplement 1 (2015) 171-179*
41. Jetoo, S., A. Thorn, K. Friedman, S. Gosman, and G. Krantzberg. 2015. Governance and geopolitics as drivers of change in the Great Lakes–St. Lawrence basin. *Journal of Great Lakes Research Supplement 1 (2015) 108–118*
42. Orr, C., K. Williams, K. Laurent, K. Friedman, G. Krantzberg, D. Scavia, I.F. Creed. 2015. Trying hard to adapt to a chaotic world: How complex challenges overwhelmed our best intentions.) *Journal of Great Lakes Research* 41 Supplement 1 (2015) 139–149
43. Bryan Comer, Shannon A. Fera, Sophie Splawinski, Katrina L. Laurent, Kathryn B. Friedman, Gail Krantzberg, Don Scavia, Irena F. Creed. 2015. Thriving and prosperous: How we rallied to confront collective challenges. *Journal of Great Lakes Research* 41 Supplement 1 (2015) 161–170
44. Scott E. Kalafatis, Maureen Campbell, Frazier Fathers, Katrina L. Laurent, Kathryn B. Friedman, Gail Krantzberg, Don Scavia, Irena F. Creed. 2015. Out of control: How we failed to adapt and suffered the consequences *Journal of Great Lakes Research Supplement 1 (2015) 20-29*
45. Keeler, B., B. Kelly, M. Gattinger, G. Krantzberg, T. Lyon, W. Mabee. 2015. Energy as a driver of change in the Great Lakes–St. Lawrence River Basin. *Journal of Great Lakes Research Supplement 1 (2015) 59-68*
46. Abdel-Fattah, S., and G. Krantzberg. 2014. Commentary: Climate change adaptive management in the Great Lakes. *Journal of Great Lakes Research* 40: 578-580 .
47. Abdel-Fattah, S., and G. Krantzberg. 2014. A review: Building the resilience of Great Lakes beneficial uses to climate change. *Sustainability of Water Quality and Ecology* 3–4 (2014) 3–13
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PRESENTATIONS AT CONFERENCES, SEMINARS, MEDIA:

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2. Krantzberg, G. 2021. McMaster Tenure and Promotion Panel. Presenter and Facilitator March 2021
3. <https://www.saanichnews.com/news/here-are-5-projects-by-companies-tackling-covid-19-to-watch-in-canada/>
4. <https://www.coastreporter.net/here-are-five-projects-by-companies-tackling-covid-19-to-watch-in-canada-1.24283590>
5. <https://news.jrn.msu.edu/2021/01/great-lakes-cleanup-of-contaminated-areas-making-progress-after-35-years/>
6. <http://greatlakesecho.org/2021/01/22/thirty-five-years-of-restoring-great-lakes-areas-of-concern-has-a-hopeful-future/>
7. <https://www.thesil.ca/an-early-detection-signal-that-could-bring-hope>
8. Krantzberg, G. Dec 10 2020. CHML Bill Kelly show. Tracking COVID-19 in wastewater. <https://omny.fm/shows/bill-kelly-show/mcmaster-is-ramping-up-wastewater-testing-designed>
9. <https://www.youtube.com/watch?v=5bFedt1I8do&feature=youtu.be>
10. <https://brighterworld.mcmaster.ca/articles/mcmaster-to-significantly-increase-wastewater-testing-designed-to-track-covid-19/>
11. Krantzberg, G. and Z. Jawed. Building Local Capacity to Track & Fight Against the Community Spread of SARS-CoV-2. Webinar presentation to Ontario Water Management Association. Nov 6, 2020. <https://omwa.org/building-local-capacity-to-track-fight-against-the-community-spread-of-sars-cov-2/>

12. Krantzberg, G. 2020. Life after Delisting: why investments count in the long term. Severn Sound - Value of Investing in Water Quality. Canadian Environmental Law Association Webinar. Oct 7 2020
13. Krantzberg, G. 2020. W. Booth School Masters of Engineering and Public Policy Program. Canadian Graduate Engineering Fair webinar Oct 7 2020
14. <https://www.universityaffairs.ca/news/news-article/covid-19-updates-for-canadas-universities/>
15. <https://brighterworld.mcmaster.ca/articles/mcmaster-among-the-first-canadian-universities-to-track-covid-19-in-campus-wastewater/>
16. https://briancrombie.com/video-gallery/?fbclid=IwAR3qmxBExQJCVU_zPIhGfPlyfGM6UYXo9DtCT90HxCiq5wGv-xh6GvdF8oM
17. <https://outlook.office365.com/mail/inbox/id/AAMkADY5MjcyZGU0LWMzODEtNGQyYi1hYjMyLWY1MmNmNjVkyTE5OQBGA AAAAADCUsIO4YzgTJ0DPnos%2Fb43BwCOOJWc8HExRrLrKsrvhgAAAAElp7AAAZQ%2BuXOXDAQYWv5cGCsJ0gAABIGbfMAAA%3D>
18. <https://windsorstar.com/news/local-news/pandemic-opens-up-great-green-opportunities-for-great-lakes/wcm/c1d63e6d-798d-41fd-8db1-bf89f97045cc/>
19. <https://www.chch.com/covid-wastewater-update/>
20. <https://www.tv.o.org/video/economic-recovery-via-the-great-lakes>
21. <https://www.ctvnews.ca/video?clipId=2002419&jwsource=cl>
22. <https://www.cbc.ca/news/canada/hamilton/hamilton-researchers-st-joseph-mcmaster-university-1.5660104>
23. Krantzberg, G. How Covid-19 is affecting the Great Lakes Region. International Association for Great Lakes annual conference, Remote Panel Plenary Presentation. June 2020
24. <https://www.tv.o.org/article/sleuthing-in-sewage-to-track-down-covid-19>
25. <https://esemag.com/water/great-lakes-restoration-making-progress/>
26. <https://www.wlns.com/news/michigan/study-35-years-of-investing-in-great-lakes-restoration-is-paying-off/>
27. <https://www.thespec.com/news/hamilton-region/2020/05/25/flushing-out-covid-19-will-sewage-testing-help-track-pandemic-outbreaks-in-hamilton.html>
28. Krantzberg, G. and Z. Jawed. <https://www.chch.com/wastewater-study/> May 2020
29. Markoff, D. and G. Krantzberg, <https://www.youtube.com/watch?v=3dJWAXPfn8U> April 2020
30. Krantzberg, G. Great Lakes, Great Responsibilities. Lager Lecture: McMaster Innovation Park, February 2020
31. Krantzberg, G. Climate Change Resilience for Public Works workshop. Hamilton January 2020.
32. <https://www.youtube.com/watch?v=DTJUDEPFsiU>
33. Krantzberg, G. My Niche in the Community: Climate Change - Challenges and Opportunities. The Riverwood Conservancy, January 2020
34. Krantzberg, G. Great Lakes Place and the Innovation Corridor Clean Tech Option. Presentation to Economic Development, City of Mississauga. January 2020
35. Krantzberg, G. Great Lakes Centre of Excellence and Innovation: presentation to Mississauga City Councilors. December 2019

36. Canada's National Observer. <https://www.nationalobserver.com/2019/10/21/news/energy-discussion-canadas-leaders-didnt-have-election>. Krantzberg cited October 21, 2019.
37. <https://www.northumberlandnews.com/news-story/9646894-port-hope-taking-steps-towards-cleaner-greener-future/> Port Hope taking steps towards cleaner, greener future. Work with McMaster University ongoing into 2020 to advance updated plan. Krantzberg cited October 19, 2019
38. Krantzberg, G. 2019. What does good Great Lakes Governance Look Like. Presentation to the Great Lakes Commission, Quebec City, October 10, 2019.
39. Krantzberg, G. 2019 Facing a Climate Change Crisis. Presentation to the City of Port Hope, public workshop, October 8, 2019.
40. <https://www.cbc.ca/news/canada/hamilton/krantzberg-microplastics-1.5374907>
41. <https://www.iheartradio.ca/610ctb/news/it-s-not-just-our-oceans-plastic-pollution-a-problem-in-great-lakes-as-well-1.10276082>
42. <https://www.chch.com/mcmaster-researcher-warns-plastic-pollution-in-great-lakes-poses-serious-risks/>
43. <http://www.digitaljournal.com/news/environment/researcher-warns-of-growing-threat-from-plastics-in-great-lakes/article/562549>
44. <https://mashviral.com/according-to-an-ontario-researcher-action-is-now-required-as-microplastics-accumulate-in-the-great-lakes/>
45. <https://www.lapresse.ca/actualites/environnement/201911/27/01-5251385-plastique-dans-les-grands-lacs-il-faut-agir-previent-une-chercheuse.php>
46. <http://www.russianweek.ca/news/canada/action-needed-now-as-microplastics-accumulate-in-great-lakes-ontario-researcher/>
47. Great Lakes Great Problems, The Agenda with Steve Paikin, <https://www.tvo.org/video/great-lakes-great-problems> September 16, 2019
48. 2019 <https://www.nationalobserver.com/2019/08/30/features/catherine-mckenna-believes-she-has-done-everything-she-could-fight-climate>
49. 2019 <https://brighterworld.mcmaster.ca/articles/cleaning-up-great-lakes-not-only-possible-but-good-for-the-economy/>
50. 2019 <https://www.youtube.com/watch?v=PsvKfXMxGZg#action=share>
51. 2019 <https://www.simcoe.com/news-story/9553153-25-years-later-collingwood-harbour-clean-up-sparks-economic-benefit/>
52. 2019 <https://www.eng.mcmaster.ca/sept/news/strategic-partnership-between-city-hamilton-and-mcmaster-climate-planning-critical>
53. 2019 <https://news.wbfo.org/post/new-report-highlights-restoration-great-lakes>
54. 2019 <https://www.cbc.ca/news/canada/hamilton/great-lakes-clean-up-to-bring-914m-economic-benefit-for-hamilton-by-2032-report-1.5246948>
55. 2019 <https://www.tvo.org/article/reviving-great-lakes-waterfronts-for-fun-and-profit>
56. 2019 <https://www.crainsdetroit.com/environment/study-economic-benefits-watershed-restoration-outweigh-costs>
57. 2019 <https://www.chch.com/flooding-in-great-lakes-may-be-more-common-due-to-climate-changes/>
58. Krantzberg, G. 2019. What is stressing Lake Ontario? Reconciliation in Our Watershed, Mississauga, April 2019
59. Krantzberg, G. 2018. Making decision in the face of uncertainty. Policy-science dilemmas. Burlington November 2018

60. 2018 <https://www.tvo.org/article/why-ontarians-should-care-about-wisconsins-water>
61. Krantzberg, G. 2018. Water at the science-policy interface: Challenges and opportunities for Canada. Canadian Science Policy Conference. Ottawa, ON. November 2018
62. Krantzberg, G. 2018. Great Lakes Governance, from command and control to collaboration. 5th European Large Lakes Symposium joint meeting with International Association for Great Lakes Research. Keynote Address. Evian France. September 2018
63. Krantzberg, G. 2018. If We Really Aren't Sure Can We Take Action? International Association for Great Lakes Research, Scarborough, ON. June 2018
64. Al-Dabbagh, Omar and G. Krantzberg. 2018, The Effects of Nitrogen Dynamics on Toxic, Non-Diazotrophic Microcystis spp. in Eutrophic Lakes. International Association for Great Lakes Research, Scarborough, ON. June 2018
65. Krantzberg, G. 2018. Career Presentation for the Institute of Public Administration of Canada, the South Western Ontario Regional Chapter: New Professionals Event. London ON June 2018
66. Jawed, Zobia and Gail Krantzberg. 2018. Use of Decision Support Tools to Address Emerging Issues in the Great Lakes. Global Water futures Annual Science Meeting 2018, McMaster University June 2018
67. Krantzberg, G. 2018. Marking World Water Day: on TVO The Agenda With Steve Paikin. Toronto, March 22 2017
68. Krantzberg, G. 2018. Innovative methods for destroying endocrine disrupting substances needed before they get into the sewage system Aquahacking 2018 Launch, March 21, 2018
69. Krantzberg, G. Quoted in: Liberals give science funding biggest increase ever March 6, 2018 Paul Mantella Sheridan Sun News
70. Krantzberg, G. Strategic pathways for Great Lakes Futures. Hamilton, December 2017
71. Krantzberg, G. The Future of Great Lakes Excellence. The Riverwood Conservancy, Mississauga, ON, Oct 14, 2017
72. Krantzberg, G. Governance Characteristics that Result in Sustainable RAP Achievement. The First Century of the International Joint Commission Conference, Ottawa, September 25-26 2017
73. Krantzberg, G., Great Lakes Legislative Caucus Annual Meeting. September 22 - 23 , 2017. Shining a “spotlight” on Lake Ontario, its unique characteristics, its importance to the region, and the challenges the lake faces
74. Krantzberg, G. The Remedial Action Plan Program. NSERC CREATE seminar, Sept 19, 2017, U of Guelph
75. Krantzberg, G. in: The Impacts of Climate Change on Ontario and the Great Lakes TVO The Agenda With Steve Paikin. Toronto September 13, 2017
76. Krantzberg, G. in: CBCNews. As weather extremes become the norm, taxpayers must foot the bill for climate chaos: Great Lakes and other flooding costs mount as engineers struggle to cope with new climate patterns By Don Pittis, CBC News Posted: Jun 01, 2017 5:00 AM
77. Krantzberg, G. Great Art for Great Lakes Mississauga Launch engagement event. June 2017
78. Krantzberg, G. Great Art for Great Lakes Hamilton Launch engagement event. June 2017
79. Krantzberg, G. Grade 2 Science: Air and Water. DELTA - an Inquiry/ Experiential/ Mentorship Science & Tech focused curriculum offered to Elementary schools in Ontario. Toronto, May 2017. Filmed for delivery to Toronto District School Board 200 teachers meeting
80. Al-Dabbagh, O., Krantzberg, G. and Grover, V.I. Phosphorus and Nitrogen as Large-Scale Stressors in the Great Lakes. International Association for Great Lakes Research, Detroit, May 2017

81. Mclaughlin, C. and Krantzberg, G. Remedies for improved development and implementation of Remedial Action Plans in the Great Lakes. International Association for Great Lakes Research, Detroit, May 2017
82. Krantzberg, G. Assessing governance capacity for nearshore zones and AOCs. International Association for Great Lakes Research, Detroit, May 2017
83. Rich, M. and Krantzberg, G. Sustaining Stewardship and Community Engagement after Delisting the Collingwood Harbor AOC. International Association for Great Lakes Research, Detroit, May 2017
84. Krantzberg, G. Motion on Bottled Water presentation to Hamilton Board of Health: water extraction for commercial purposes. Hamilton April 23 2017
85. Krantzberg, G. in: Trump and the Great Lakes. TVO The Agenda With Steve Paikin. Toronto, March 22 2017
86. Great Lakes Challenges and Opportunities. Enbridge engagement. Toronto, January 2017
87. Great Lakes Protection Act Alliance: setting priorities for action. Toronto January 2017
88. Remedial Action Plans, the nexus of science and policy. CREATE workshop, Guelph, September 2016
89. Great Lakes Protection Act Alliance: Future of Great Lakes Guardians' Council working groups. Toronto September 2016
90. Great Lakes Great Responsibilities. Canadian Mensa Annual Gathering, Toronto. June 2016
91. The Science-Policy needs for Great Lakes Governance. International Association of Great Lakes Research, Guelph, June 2016
92. Great Lakes resilience and water scarcity? Seneca College. March 2016
93. Growing Canada to 100,000,000 people. Public Policy Panel. Seneca College. October 2015
94. Climate change in the Great Lakes: A call for adaptation strategies. McMaster University. Oct. 2015
95. Defining sustainability for practical application. McMaster University. Sept. 2015.
96. Can we avoid the Great Lakes tipping point? Water After Borders. Chicago, April 2015
97. Great Lakes: Who's in Charge? McMaster Water Network, Hamilton, April 2015
98. Policy Findings explored at "Water a Risky Business": to the Canadian Municipal Water Consortium, Mississauga, ON. March 2015
99. Integrated Water Resource Management: Policy Matters. "Water a Risky Business: Canadian Water Network, London ON. March 2015
100. Great Lakes Great Responsibilities, Governance Challenges. McMaster Water Week, Hamilton October 2014
101. Re-evaluation of Indicators of Toxic Chemicals in the Great Lakes. Murray, M.W., Debarros, C., Krantzberg, G., Ridal, J., and Swackhamer, D. International Association for Great Lakes Research, Hamilton May 2014
102. Strategic tools to overcome policy barriers and move the Great Lakes-St. Lawrence River Basin closer to a "thriving and prosperous" future. Laurent, K.L. Friedman, K.B., Krantzberg, G. Scavia, D., and Creed, I. International Association for Great Lakes Research, Hamilton May 2014
103. The need for governance indicators for the Laurentian Great Lakes. Jetoo, S, and Krantzberg, G. International Association for Great Lakes Research, Hamilton May 2014
104. The State of Urban Phosphorus Management in the Lake Erie Basin. Nesbitt, R.A.¹, Krantzberg, G.², Hutchinson, N.J.¹, International Association for Great Lakes Research, Hamilton May 2014

105. Transboundary Governance Capacity: Towards Indicators and an Analytical Framework Vannijnatten, D.L., Bryk-Friedman, K., Johns, C., and Krantzberg, G. International Association for Great Lakes Research, Hamilton May 2014
106. A Look Into the Future of the Great Lakes. Waterloo Water Institute Conference, May 2014
107. Great Lakes Threats and Responses. Canadian Water Resources Association 2014 conference Expert Panel. Hamilton ON.
108. Public Policy Outreach Initiatives of the Great Lakes Policy Research Network. Washington D.C. April 2014. <http://www.wilsoncenter.org/event/the-great-lakes-st-lawrence-region-improving-policy-outcomes-through-research-and-engagement>
109. Career Pathways for Environmental Science and Management. Royal Botanical Gardens, Hamilton, April 2014
110. 21st Century Water Security Challenges for Society and Science. McMaster University Panel Discussion. April 2014
111. Great Lakes co-management, prospects for the future. Barrie, Ontario, March 2014
112. Great Lakes Great Responsibilities. The Riverwood Conservancy, Mississauga, March 2014
113. Implementation strategies for a Great Lakes resilient Future. Buffalo, New York, October 2013
114. What the prescription for Great Lakes hold 10 years later: Great Lakes Week, Milwaukee September 2013
115. Great Lakes Scenario Workshop, McMaster University, Hamilton June 2013
116. Great Lakes Futures Project, International Association of Great Lakes Research, Lafayette, June 2013
117. Great Lakes and strategic planning. APA Chicago April 2013
118. Great Lakes 100 years from now. CUSLI, Cleveland, April 2013
119. The challenge to Great Lakes excellence. Probus Mississauga, March 2013
120. Great Lakes Great Responsibilities. Wilfred Laurier Conference, March 2013
121. Great Lakes scenario experiments. University of Michigan. January 2013
122. Chemical Indicators of Great Lakes Integrity. IJC Workshop, Windsor, Sept. 2012
123. Evidence of Implementation Deficits for Great Lakes Greatness. University of Guelph, June 2012, 7th Peter Yodzis Colloquium in Fundamental Ecology Sustainability, socio-ecological complexity and adaptive management: Opportunities and challenges *Keynote Address*
124. Great Lakes Science Research, a focus on Ontario Ministry of Environment's 40th Anniversary. ON, May 2012, *Keynote Address*
125. Complex science is no match for impaired governance. International Association for Great Lakes Research. Cornwall, ON, May 2012, *Keynote Address*
126. From Remedial Action Plans to a Nearshore Governance Framework. International Association for Great Lakes Research. Cornwall, ON, May 2012
127. Engineering and Politics. The Global Engineer Conference, McMaster University. March 2012
128. Great Lakes, Great Responsibilities; a Canadian Perspective. 7th Circuit Bar Association Great Lakes Conference, Chicago, March 2012
129. The history and future of the Remedial Action Plan Program. Canada-Ontario Agreement Workshop. Niagara on the Lake. February 2012

130. Engineering and Public Policy, the Collingwood Harbour RAP experience. NCWIE. Hamilton, November 2011
131. Great Lakes Responsibility, the role of youth. Green Citizen Conference, Seneca College, Toronto, October 2011
132. From lakewide approaches to local co-management. Living Arts Centre, October 2011
133. Great Lakes Science Informs Policy. Georgian Bay Forever Forum. Toronto, March 2011
134. Green Belts for Great Waters. Global Greenbelts Conference. Toronto, March 2011
135. Engineering Innovation and Health Care public policy. Panel member, Toronto March 2011
136. Adaptation strategies for the Great Lakes. Climate Change Adaptation Conference, Conservation Ontario. March 2011
137. The transportation-water quality nexus. Transportation Summit 2011, City of Hamilton, March 2011
138. Many Jurisdictions, One Resource: Managing Change in Canada-U.S. Transboundary Waters. Water Canada Roundtable. February 2011
139. The role of Engineerings in Environmental Policy. Engineers Without Borders International Conference. Toronto, January 2011
140. Great Lakes, our shared future. Probus Oakville. January 2011
141. Challenges for the next 25 years of Responsible Care. Chemistry Industry Association of Canada AGM. Ottawa October 20, 2010. Expert Panel
142. Great Lakes, Great Cities, Great Responsibilities. Aquatic Toxicity Workshop. Toronto October 4, 2010. Plenary Speaker
143. From Water Quality to the Ecosystem Approach. World Water Congress. Montreal, September 2010
144. The need for a Regeneration Institute for the Great Lakes. Canadian Water Summit, Toronto, June 18 2010
145. Scenarios for a Great Lakes Future. International Association for Great Lakes Research Toronto, May 20, 2010
146. The Ecosystem Approach, a tribute to Henry Regier. International Association for Great Lakes Research Toronto, May 18, 2010
147. The Public Policy Process. Ontario Centre for Engineering and Public Policy, Annual General Meeting. Toronto, May 7 2010
148. Great Lakes Great Responsibilities. Institute for Journalism & Natural Resources. Burlington April 25, 2010
149. Valuation of Great Lakes resources and services. 5th Binational Lake St. Clair conference. Managing Lake St. Clair for an Ever Changing Environment March 31, Windsor, ON
150. Great Lakes Binational Governance. Glass Half Full, Science for Peace Conference, McMaster University. March 13 2010
151. Opportunities to Regenerate Great Lakes Excellence. Canadian Water Resources Association, Feb 5, Burlington ON
152. Great Lakes at a crossroads. February 2010. Mississauga Probus.
153. Valuation of Great Lakes natural Assets. Latornel. November 2009. Alliston Ontario
154. Great Lakes Greater Stakes. A green midwest, a blue midwest globalization and the midwest conference. Chicago. November 2009
155. The Great Lakes MetaStrategy. International Joint Commission Round Table. October 2009. Windsor, Ontario.

156. Great Lakes Governance Reform. International Association for Great Lakes Research, Toledo, Ohio. May 2009
157. Sustainable Engineering. George Brown College, Toronto, March 31, 2009
158. Great Lakes indicators and Endpoints. International Association for Great Lakes Research, Toledo, Ohio. May 2009
159. Green Energy Green Economy Act. Governance and policy challenges for Engineers. Toronto. April 2009
160. The Use of Science for Decision Making: Public Policy for Ontario's Conservation Authorities. Conservation Ontario Directors Meeting. Black Creek Pioneer Village, Toronto, April 2009
161. Great Lakes Great Responsibilities. Stoney Creek Rotary Club. April 2009 .Preserving Ontario's Freshwater, Ontario Headwaters Institute, Toronto, March 27, 2009.
162. Great Lakes threatsCorporate social responsibility and solutions. Oshawa Chapter, Canadian Society of Civil Engineers.Green enegineering. everGREEN Conference, McMaster University. March 20, 2009
163. Great Lakes Great Responsibilities. . Canadian Association for Water Quality, Burlington, February 23, 2009
164. The Use of Science for Decision Making: A Scan of Conservation Authorities in Ontario. Canadian Association for Water Quality, Burlington, February 24, 2009
165. The Science Policy Discourse. Canadian Association for Water Quality, Burlington, February 24, 2009
166. A Great Lakes Agenda for Accountability. On the Waterfront: A Clear Commitment, Hamilton, Ontario Rotary District 7090. October 17-19, 2008.
167. Great Lakes Panel; Banff Forum, Banff Forum VII In The Shadow of a Stumbling Giant? Canadian/U.S. Relations in a New Era. Niagara on the Lake, Ontario, October 9 – 11 2008
168. Great Lakes leadership for Binational renewal. Marshall Plan for the Great Lakes St. Lawrence.. Great Lakes St. Lawrence Cities Initiative Annual Conference. July 18 2008. Toronto, Ontario.
169. Participatory Decision making for Sustainable Communities. International Association for Great Lakes Research Annual Conference. Trent University, Peterborough, May 2008
170. Great Lakes Great Responsibilities. Energy2100: Making the Lakes Great. Toronto, Ontario. April 23, 2008
171. Breaking Down the Silos. Implementing Integrated Watershed-Wide Sustainability Plan. Credit Conservation Authority Workshop, Mississauga, November 2007
172. Our Great Lakes Futures: to where from here? A.G. Latornell Symposium, Barrie, Ontario November 2007 Keynote speaker
173. Source Water Protection and collateral benefits. Lake Ontario Shoreline Algae Action Advisory Committee. Invited Speaker. Hamilton, September 2007
174. Great Lakes Areas of Concern: Achieving Restoration Targets and Sustaining Stewardship. What makes and Area of Concern an Area of Concern. Cleveland, June 2007
175. Advances in the Great Lakes Observing System and its Regional Association. International Association for Great Lakes Research. May 2007
176. A Great Lakes Water Quality Agreement Conversation Society of Environmental Journalists, Saginaw Bay Michigan, May 2007

177. Economic and Ecologic threats to the Great Lakes. Invited speaker. 70th Annual International Joint Conference of the Canadian Shipowners Association and the Lake Carriers' Association. Tampa, February 2007
178. Great Visions for Great Lakes. Coastal Centre, Nottawasaga Bay, July 2007
179. Emerging chemicals and the future of Great Lakes policy, University of Toronto, February 2007
180. Valuation of Great Lakes Natural Assets. Presentation to Ministry of Natural Resources, Toronto, January 2007
181. Emerging chemicals and the future of Great Lakes policy, McMaster University, December 2006
182. Great Lakes Great Watersheds. Lattornel Conference, Barrie, Ontario November 2006
183. Conservation Ontario Priorities for the Great Lakes. Conservation Ontario November Workshop, Toronto 2006
184. Capacity Building for Watershed Management. Pollution Probe Workshop. June 2006, Guelph, Ontario.
185. Revitalizing the Great Lakes, Renewing Commitments. Great Lakes United Annual General Meeting, Dinner Keynote Address, June 2006, Michigan.
186. Great Lakes governance and policy challenges. International Association for Great Lakes Research Annual Conference. Windsor, May 2006
187. The Great Lakes Water Quality Agreement: Revitalize, Revise, Renegotiate? Sustainable Development . Freshwater for the Future - Conference on Freshwater Policy Sustainable Development. Invited Speaker, Ottawa May 2006
188. Water Quality Challenges in a Trans-boundary Area. One Region. Two Niagara. Our Shared future. Lunch Keynote Address. May 2006, Niagara Falls
189. Freshwater for the Future - Conference on Freshwater Policy Great Lakes Journalism Matters. The Not So Great Lakes conference, Windsor. March 2006
190. The role of science in policy formulation in the Great Lakes Region. University of Toronto Seminar. March 2006
191. 41st Central Canadian Symposium on Water Quality Research. NWRI, Burlington, ON. Feb 2006
192. Science influences Policy in the Great Lakes Basin. Kempenfelt Retreat, Ministry of Environment, Environmental Monitoring and Reporting Branch. Jan. 2006
193. Watersheds for sustainability. Healthy Waters, Healthy Communities Latournel Conference, Ontario November 2005
194. The Future of Great Lakes Governance. SETAC, Baltimore Nov. 2005
195. Revitalizing the Great Lakes. Future Opportunities. American Water Works Association, San Francisco, June 2005.
196. Delisting targets for Eutrophication and Beach Closings. International Association for Great Lakes Research. Michigan. June 2005.
197. Watersheds as the Planning Unit for Receiving Water Protection. Ontario Water Works Association Spring Specialty Seminar. Toronto, March 2005.
198. A primer on Lakewide Management Plans and the Great Lakes Water Quality Agreement. International Joint Commission's Water Quality Board Workshop on Watershed Approaches. Ypsilanti, MI March 2005.

199. Climate change scenarios: Projected implications for Great Lakes water quality and quantity. Climate Change Effects on Fisheries and Aquatic Resources: Exploring the Reality of Adaptation in the Great Lakes Basin, Windsor. January 2005
200. Searching for Sustainability. Society of Environmental Journalists Annual Meeting, Pittsburgh. October 2004
201. Great Lakes Water Quality Agreement and progress in restoration. Society of Environmental Journalists Annual Meeting, Pittsburgh. October 2004
202. The role of the IJC in Great Lakes protection: climate change as a pressure on ecosystem sustainability. Coastal Zone Climate Change and Adaptation Workshop Parry Sound. August 2004.
203. Sediment Remediation, lessons learned in 2004. International Association for Great Lakes Research, May 2004.
204. Remedial Action Plans: staying on target. International Joint Commission Workshop, Ann Arbor, September 2003
205. Beyond Borders. Environmental Grantmakers Network Conference, Ottawa, September 2003
206. Great Lakes challenges and solutions. Midwest Legislatures Congress, Milwaukee, August 2003
207. Assessing Beneficial Uses. Great Lakes Commission/USEPA Remedial Action Plan Workshop, Detroit, May 2003.
208. Measurement for Management. Society of Toxicology and Chemistry, invited speaker, Utah, November 2002
209. Great Lakes Water Quality Agreement and the International Joint Commission. Managing Shared Waters, invited speaker, Hamilton, June 2002,
210. Lake Huron, challenges faced. Lake Huron Workshop, Port Huron, MI, Jan. 2002.
211. Overcoming obstacle to sediment management. Binational Toxics Strategy Workshop, Ann Arbor, MI, April 2001
212. Assessing the data: Deciding when to intervene. Contaminated Sediment, Legal Institute of the Great Lakes, Toledo, April 2000, invited speaker
213. Great Lakes urban waterfront action plans. Water Sensitive Ecological Planning and Design, Harvard, Cambridge, February 2000, invited speaker
214. Decision-Making using ecologically relevant data interpretation
215. 35th Central Canada symposium on Water Pollution Research,. Burlington, ON, Feb. 2000, Session co-chair
216. Overcoming obstacles for sediment management. International Joint Commission Biennial Forum, Milwaukee, Session Co-chair, October, 1999
217. Working together for our Great Lakes. The Civic Garden Centre's Edwards Lecture Series, Guest Speaker, Toronto, October 1999
218. Taking stock of Remedial Action Plans. Ontario Public Advisory Council annual conference, Toronto, October 1999
219. Decision making for sediment management. IJC Biennial Forum, Milwaukee, September 1999
220. Is the Coast Clear? Conference on the state of the Lake Huron Environment, Goderich August 1999, plenary speaker
221. Deciding when to intervene. Annual Conference of the Internat. Ass. Great Lakes Res. Toledo May 1999

222. Implementing Indicators to measure outcomes of the Great Lakes Water Quality Agreement. Annual Conference of the Internat. Ass. Great Lakes Res. Toledo May 1999
223. Making decisions for the management of contaminated sediment. Water Quality Board public meeting, Toronto, May 1999
224. Sharing experiences in habitat rehabilitation II, invited speaker, Toronto, November 1998
225. Environmental priorities in the Toronto Region, invited speaker, Toronto Community Foundation Sept 28, 1998
226. Successful partnerships for Great Lakes Clean-up, invited speaker, Indiana Sept. 1998
227. Making biologically based decision on sediment management, keynote address, Sediment Quality Assessment 3, the Netherlands. August 1998
228. Community based decision making for sediment management, invited speaker, Great Lakes Mayor's conference, Windsor. July 1998
229. Environment and the Health of our Children. Best Start Barrie, invited speaker April 1997
230. Biodiversity and Sustainability Conference, Lindsay College, invited speaker March 1997
231. Innovative Funding Alternatives for Great Lakes Rehabilitation. Racine WI, invited speaker July 1996
232. Conference on Water and First Nations in Ontario, Brantford Ont., invited speaker Oct. 1995
233. International Joint Commission, Biennial Meeting, Duluth, MI, invited speaker Sept. 1995
234. Successful Strategies for Great Lakes Remedial Action Plans, Racine WI, invited speaker July 1995.
235. Habitat Restoration and the Clean Water Act, Chicago, invited speaker, March 1995
236. American Society of Consulting Engineers, Billings, Montana, invited speaker Oct. 1994.
237. Aquatic Toxicity Workshop, Sarnia, October 1994.
238. Coastal Zone Canada, Halifax, N.S., invited speaker September 1994.
239. Atlantic Coast Action Plan Annual Meeting, Lunenburg, N.S., invited speaker Sept. 1994
240. Association of Municipalities of Ontario, Toronto, invited speaker August 1994.
241. Black River RAP Workshop, Cleveland, Ohio, invited speaker July 1994.
242. Grand River Conservation Authority Water Quality Workshop, Waterloo, invited speaker May 1994.
243. Voluntary Pollution Prevention Programs, Ontario, invited speaker April 1994.
244. North Simcoe Environment Watch, invited speaker, Orillia, April 1994.
245. IJC RAP Forum, Windsor, invited speaker, Ont. Oct. 1993.
246. Lake Huron Basin Symposium, invited speaker, Windsor, Ont. Oct. 1993.
247. Toronto Contaminated Sediment Workshop, invited speaker, Toronto, Ont. August 1993
248. Workshop on Community Involvement in Decision Making, invited speaker, Quebec, June 1993
249. Stormwater and Combined Sewer Outfall Technology Transfer Conference, Tor. Jan. 1993
250. Horizon's Conference, Secondary School Workshop, invited speaker, Toronto, Ont. Feb. 1993
251. 18th Annual Aquatic Toxicity Workshop, Toronto, Ont. October 1991, session chairperson.

252. International Association of Great Lakes Research, Buffalo, NY. June 1991
253. Water Resources Branch Seminar. Kempenfelt, Ontario. February 21, 1991.
254. Workshop on the Development of Biological Sediment Quality Guidelines, Cambridge, Ont. January 23-24, 1991.
255. 17th Aquatic Toxicology Conference, Vancouver B.C., November 1990
256. Teachers Making a Difference. International Joint Commission Live-by-satellite television conference. November 1990.
257. Environment Ontario Research Technology Transfer Conference, Toronto, November 1990.
258. International Symposium on Ecosystem Health, Waterloo, Ont., July, 1990, invited speaker
259. International Association of Great Lakes Research, Windsor, Ont., May 1990
260. Society of Canadian Limnologists, Ottawa, January 1990
261. Society of Environmental Toxicology and Chemistry (SETAC), Toronto, Nov. 1989
262. North American Benthological Society (NABS), Guelph, Ontario, May 1989
263. 15th Aquatic Toxicology Conference, Montreal, Nov. 1988
264. Environment Ontario Technology Transfer Conference, Toronto, Nov. 1989
265. Trace Metals in Lakes, Hamilton, Ontario, August 1988
266. First International Conference on Environmental Bioassay Techniques and their Application, University of Lancaster, UK, November 1987.
267. Society of Environmental Toxicology and Chemistry Annual Conference, Pensacola, Florida, Nov. 1987
268. North American Benthological Society Annual Conference, Orono, Maine, June 1987
269. 70th Chemical Society Congress, Quebec City, June 1987
270. Shield Lakes Acidification Network (SLANT), Queen's University, Apr. 1986
271. International Conference on Heavy Metals in the Environment, Athens, Sept. 1985
272. International Conference on Heavy Metals in the Environment, Heidelberg, Sept. 1983