

CURRICULUM VITAE – updated 5 October 2017

Karen A. Kidd

CONTACT INFORMATION

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Citizenship: Canadian

EDUCATION

B.Sc.	Biological Sciences, Specialization: Environmental Toxicology	Guelph	Canada	1991
Ph.D.	Biological Sciences, Environmental Biology and Ecology	Alberta	Canada	1996

EMPLOYMENT HISTORY

Stephen Jarislowsky Chair in Environment and Health	2017-present
<i>Biology Department & School of Geography and Earth Sciences, McMaster University, Hamilton, ON</i>	
Tier 1 Canada Research Chair in Chemical Contamination of Food Webs	2015-17
Tier 2 Canada Research Chair in Chemical Contamination of Food Webs	2004-09; 2010-14
<i>Biology Department, University of New Brunswick, Saint John, NB</i>	
Professor	2008-present
Associate Professor	2004-08
<i>Biology Department, University of New Brunswick, Saint John, NB</i>	
Research Scientist	1998-2004
<i>Fisheries and Oceans Canada, Freshwater Institute, Winnipeg, MB</i>	
Research Associate & Postdoctoral Fellow	1996-98
<i>Fisheries and Oceans Canada, Freshwater Institute, Winnipeg, MB</i>	

ADJUNCT FACULTY POSITIONS & VISITING PROFESSORSHIPS

Visiting Professor, Umeå University, Umeå, Sweden and Swetox, Sodertalje, Sweden	2015
Visiting Professor, National Institute of Water & Atmospheric Research, Hamilton, New Zealand	2012
Adjunct Professor, Dept. of Biology, University of Prince Edward Island, Charlottetown, PEI	2008-11
Adjunct Professor, Department of Zoology, University of Manitoba, Winnipeg, MB	2000-06

HONOURS AND AWARDS

2015	Tier 1 Canada Research Chair
2012	NSERC Discovery Accelerator Award
2010	Tier 2 Canada Research Chair renewal
2009	Society of Environmental Toxicology and Chemistry's Presidential Citation for Exemplary Service
2007	J.C. Stevenson Memorial Lecture, Canadian Conference for Fisheries Research
2004	Tier 2 Canada Research Chair
2002	Queen's Golden Jubilee Medal
2002	Doan Publication Award, Fisheries and Oceans Canada

EDITORIAL POSITIONS

2015-18	Associate Editor, Freshwater Science specialty section, <i>Frontiers in Environmental Science</i>
2015-18	Editorial Board Member (Subject Editor), <i>FACETS</i>
2015-18	Editor, <i>Environmental Toxicology and Chemistry</i>
2009-pres	Guest Editor, <i>Proceedings of the National Academy of Sciences</i> (11 times)
2006-08	Guest Co-editor, <i>Environmental Pollution</i> special issue entitled "Mercury Cycling and

1999-2002 Bioaccumulation in the Environment”
 Editorial Board Member, *Environmental Toxicology and Chemistry*

TEACHING AND MENTORING EXPERIENCE

UNDERGRADUATE TRAINING AT UNIVERSITY OF NEW BRUNSWICK (UNB)

BIOL 4825 – Introduction to Ecotoxicology – FA 2014; FA 2016
 BIOL 4861 – Advanced Environmental Biology – WI 2006; WI 2008; WI 2010; WI 2014; WI 2016
 BIOL/CHEM 3245 – Environmental Chemistry – WI 2005; WI 2007; WI 2009; WI 2011; WI 2013
 BIOL 4090 – Honour’s Program – FA/WI 2007 (A. Ornostay); FA/WI 2013 (K. Chaston); FA/WI 2014 (B. Reinhart); FA/WI 2015 (A. Sepulveda); FA/WI 2016 (N. Fraser, S. Veinot, C. Moore)

NATIONAL AND INTERNATIONAL UNDERGRADUATE AND GRADUATE COURSES

2018 Co-teaching “Tropical marine biology field course”, Havana, Cuba, May.
 2018 Co-teaching “Landscape influence on aquatic ecology and mercury fate/effects in Chilean Patagonia”, 10-14 Jan.
 2014 Co-taught graduate course “Introduction to marine ecotoxicology and assessments”, CICIMAR-IPN, La Paz, Mexico, 15-19 Dec.
 2012 Co-taught graduate course “Recent advances in understanding endocrine disruption in aquatic environments”, SETAC Mexico, Aguascalientes, Mexico, 2 Jul.
 2011 Co-taught short course “The endocrine system: the good, the bad, and the regulations” SETAC North Atlantic Chapter meeting short course, Freeport, ME, 8 Jun.
 2007 Co-taught “Pulp mill industry and its impacts on the aquatic ecosystems” Environmental Sciences Center EULA-Chile, Universidad de Concepción, Chile, 20-27 Jan.
 2006 Co-taught graduate course “Ecological Risk Assessment: Theory and Practice” Centro de Investigación en Alimentación y Desarrollo - Unidad Mazatlán, Mexico, 8-15 Jul.

OTHER GRADUATE TRAINING

2015 “Top 10 tips for graduate students”, Swetox Graduate Student Symposium, Stockholm, Sweden, 25 Aug.
 2014 Career panel member, Gordon Research Seminar, Oceans and Human Health, ME, 31 May.
 2013-17 Course coordinator and lecturer for BIOL 6913 – Research Methods, UNB Saint John
 2004-16 Regular student mentor and judge at the Aquatic Toxicity Workshop and the Society of Environmental Toxicology annual meetings
 2007-10 Workshops on time management, conflict resolution, scientific writing
 2010 Invited lecture, “Top 10 tips for effective grant writing.” Symposium for Women Entering Ecology and Evolution Today Symposium, Halifax, NS
 2005-08 Course coordinator for BIOL 6000 – Graduate Seminars, UNB Saint John
 2006, 2007 Career panelist or speaker for Graduate Student Symposia, UNB Saint John

GRADUATE STUDENT SUPERVISION

Lifetime

MSc completed - 18
 MSc in progress - 4
 PhD completed - 7
 PhD in progress - 0

MSc Students

- 2016- Shawn Kroetsch (co-supervised with S. Pavey) "Microbiome of aquatic invertebrates" NSERC PGS
- 2016- Carson White (co-supervised with M. Gray) "Cumulative effects of forestry on fish communities"
- 2016- Jonathan Fischer-Rush "Aquaculture impacts on marine benthic macroinvertebrates"
- 2016- Kelli Charbonneau "Mercury in stream food webs impacted by forestry" NSERC PGS
- 2016-17 Nefer Roldan "Bioacumulación y biomagnificación de elementos potencialmente tóxicos en el pulpo *Octopus hubbsorum* del Puerto minero de Santa Rosalía, Golfo de California."
- 2015-17 Bethany Reinhart "Mercury along a salinity gradient in the Saint John River"
- 2013-15 Rosalinda Kan (co-supervised with C. Martyniuk; NSERC PGS) "Effects of selenium on fish gene expression"
- 2013-16 Stephanie Graves (NSERC PGS) "Effects of mercury on small-bodied fishes"
- 2013-15 Heather McMahon "Recovery of riverine food webs after closure of a pulp and paper mill".
- 2013-15 Anne-Katrin Müller (co-supervised with H. Hollert) "Ultrastructural alterations and genotoxicity in yellow perch (*Perca flavescens*) from a biological mercury hotspot"
- 2012-15 Bryce Pippy (co-supervised with K. Munkittrick) "Understanding variability in sediment contaminants and benthic invertebrate populations in the Saint John Harbour".
- 2009-13 Geoff McBriarty (co-supervised with L. Burrige) "Effects of the anti-sea lice therapeutant emamectin benzoate on clam worms (*Nereis virens*)"
- 2010-13 Gretchen Lescord "Investigating influences of physical lake features and food web characteristics on mercury and perfluorinated chemical (PFC) in Arctic char"
- 2009-11 Meredith Clayden "Mercury biomagnification through acidic lake food webs in relation to lake characteristics and elemental composition of aquatic organisms"
- 2009-11 Katharina Batchelar (NSERC CGS) "Effects of mercury on the general and reproductive health of yellow perch in Kejimikujik National Park, Nova Scotia."
- 2007-13 Monica Finley (co-supervised with A. Curry) "The effects of fish community complexity on mercury bioaccumulation in lake food webs supporting brook trout (*Salvelinus fontinalis*)"
- 2009-11 Shelley Wellman, "Nutrient flow in a freshwater food web during and after an experimental aquaculture operation"
- 2006-08 Brianna Wyn (NSERC PGS) "Mercury bioaccumulation through food webs in acidic lakes at Kejimikujik National Park and National Historic Site, Nova Scotia"
- 2005-07 Tim Arciszewski (NSERC IPS; co-supervised with K. Munkittrick) "Population-level responses of fish and invertebrates to effluents in a complex receiving environment"
- 2004-06 Marilyn Kullman (NSERC CGS) "Assimilation of freshwater salmonid aquaculture waste by native aquatic biota"
- 2002-05 Mark Lowdon, U of Manitoba, "Impacts of introduced wild rice (*Zizania palustris*) on invertebrate communities in lakes in west-central Manitoba"
- 2001-03 Brad Park, U of Manitoba, "Effects of the environmental estrogen 17 α -ethynylestradiol on early development of frogs at the Experimental Lakes Area"

PhD Students

- 2013-17 Jennifer Loughery (co-supervised with C. Martyniuk; NSERC PGS) "Effects of PAHs on fish development and reproduction"
- 2013-17 Maitane Erdozain, "Effects of forest condition on stream ecosystem services"

2013-17	Jennifer Thera, "Nutrients in aquatic food webs and their effects on mercury biomagnification"
2010-17	Heather Loomer (NSERC PGS) "Assessing and predicting impacts of potato agriculture on small streams in New Brunswick" (part time)
2008-13	Leanne Baker "The effects of Roundup WeatherMax© and nutrients on wetland invertebrates and food web structure"
2006-10	Heidi Swanson (NSERC CGS) "Interactions of fish ecology, life history, food web structure, and mercury bioaccumulation in coastal Arctic lakes"
2005-08	Tim Jardine (NSERC CGS) "Using multiple sentinel species and stable isotopes to understand mercury sources and fate in temperate streams"

Postdoctoral Fellows

2016-17	Lindsay Brin, UNB Saint John
2012-14	Jordana Van Geest, UNB Saint John
2003-05	Michelle Gray (NSERC PDF), University of Manitoba

RESEARCH ACTIVITIES

CAREER TOTALS FOR PUBLICATIONS AND PRESENTATIONS

		Lifetime	Published	In Press	Submitted
Refereed	Journals	104	97	4	4
	Books	1			
	Book Chapters	13	12	1	
	Reports	7	7		
Total Refereed Publications		117			-
Non-refereed	Departmental and Technical Reports	8*			
	Keynote and Plenary Presentations	25			
	Invited Presentations	66			
	Contributed Presentations	215			

*Not shown

RESEARCH IN PROGRESS

My research program focuses on understanding the impacts of human activities on aquatic ecosystems. More specifically I study the effects of point (municipal and industrial) and non-point (agriculture) discharges on the health of aquatic organisms, and the fate of persistent pollutants in freshwater and marine ecosystems. Much of my research is multidisciplinary in nature and an interface between biogeochemistry, ecology and toxicology. For example, I use measurements of stable nitrogen, sulfur, and carbon isotope ratios in organisms to characterize trophic relationships in diverse aquatic systems and to understand pollutant accumulation from primary producers through to top predators. I have led or been involved in three major whole ecosystem experiments to understand how 1) the estrogen used in the birth control pill affects fish and their prey, 2) wastes from rainbow trout aquaculture affect native organisms, and 3) a commonly-used herbicide and fertilizers affect the health of wetland communities.

Ongoing research programs include (main partners in brackets):

- Mercury in high and low organic matter lakes across a latitudinal gradient in Scandinavia (NIVA, Oslo, Norway)

- An ecosystem study to assess the potential effects of dam removal on the Saint John River (NB Power)
- Effects of potato production on the food web structure and nutrient storage in streams in New Brunswick (Agriculture and Agri-food Canada)
- Novel methods for assessing the trophic transfer of mercury through food webs of acidic lakes in Kejimikujik National Park, Nova Scotia (Memorial; Parks Canada; Environment Canada, CCIW)
- Uptake and effects of metals and hydrocarbons in invertebrates from the Baja Peninsula, Mexico (Interdisciplinary Center of Marine Sciences of the National Polytechnic Institute, Mexico)
- Trophic transfer of metals in fishes of the Barra Navidad lagoon, Jalisco, Mexico (Universidad de Guadalajara, Mexico)
- Food web structure and mercury concentrations in coastal food webs in Antarctica and Chilean Patagonia (Melimoyu Ecosystem Research Institute, Chile)
- Effects of forest condition (logging, natural disturbance) on the delivery of aquatic ecosystem services in streams in northern New Brunswick (Canadian Forest Service; JD Irving; U of Guelph)
- Emerging contaminants in municipal wastewaters and their effects on fish populations in three provinces: development of a toolbox to assess sites of high concern (Waterloo, INRS, U of SK, Canadian Water Network)

PUBLICATIONS (STUDENTS FROM MY LAB ARE UNDERLINED)

PEER-REVIEWED JOURNAL ARTICLES SUBMITTED

- Eagles-Smith, C.A., E.K. Silbergeld, N. Basu, P. Bustamante, F. Diaz-Barriga, W.A. Hopkins, K.A. Kidd, J.F. Nyland. 2017. Modulators of mercury risk to wildlife and humans in the context of rapid global change. *Ambio*, Submitted 1 Oct 2017.
- Diamond, J., R. Altenburger, A. Coors, S. Dyer, M. Focazio, K. Kidd, B. Koelmans, K. Leung, M. Servos, J. Snape, J. Tolls, and X. Zhang. Use of prospective and retrospective risk assessment methods that simplify chemical mixtures associated with treated domestic wastewater discharges. *Environmental Toxicology and Chemistry*, ETCJ-May-17-00369, Submitted 26 May 2017, Under revision.
- Thera, J., **K.A. Kidd**, M.E. Dodge-Lynch, and R.F. Bertolo. Quantification of sulphur amino acids by ultra-high performance liquid chromatography in aquatic invertebrates. *Analytical Biochemistry: Methods in the Biological Sciences*. Submitted 5 May 2017, Under revision.
- Creed, I.F., A.-K. Bergström, C.G. Trick, N.B. Grimm, D.O. Hessen, J. Karlsson, **K.A. Kidd**, E. Kritzberg, D.M. McKnight, E.C. Freeman, O.E. Senar, A. Andersson, J. Ask, M. Berggren, M. Cherif, R. Giesler, E.R. Hotchkiss, P. Kortelainen, M.M. Palta, T. Vrede, and G.A. Weyhenmeyer. Global change-driven effects on dissolved organic matter composition: Implications for food webs of northern lakes. *Global Change Biology*. GCB-17-0609, 20 Apr 2017. Revised version resubmitted 4 Oct 2017.

PEER-REVIEWED JOURNAL ARTICLES PUBLISHED OR IN PRESS

2017 (10)

- J100. Yee-Duarte, J.A., B.P. Ceballos-Vázquez, E. Shumilin, **K.A. Kidd**, and M. Arellano-Martínez. Evidence of health impairment in chocolate clam (*Megapitaria squalida*; Bivalvia: Veneridae) near the “hot spot” of the Santa Rosalía mining port, Gulf of California, Mexico. *Hidrobiologica*, Accepted 17 August 2017, In press.
- J99. Yee-Duarte, J.A., B.P. Ceballos-Vázquez, E. Shumilin, **K.A. Kidd**, and M. Arellano-Martínez. Parasitic castration of chocolate clam *Megapitaria squalida* (Sowerby, 1835) caused by trematode larvae. *J. Shellfish Research*. Accepted 25 August 2017, In press.

- J98. Roldán Wong, N.T., K.A. Kidd, A.J. Marmolejo Rodríguez, B.P. Ceballos Vázquez, E. Shumilin, and M. Arellano Martínez. Bioaccumulation and biomagnification of potential toxic elements in the octopus *Octopus hubbsorum* from the Gulf of California. *Marine Pollution Bulletin*. MPB-D-17-00960R1, Accepted 5 Oct 2017, In press.
- J97. McBriarty, G.J., **K.A. Kidd**, and L.E. Burridge. Short-term effects of the anti-sea lice therapeutic emamectin benzoate on clam worms (*Nereis virens*). *Arch. Environ. Contam. Toxicol.* AECT-D-17-00187, Accepted 6 Sept 2017, In press.
- J96. Crawford*, S.E., Brüll, C., Aumeier, B., Brinkmann, M., Esser, V., Ganal, C., Häussling, R., Lehmkuhl, F., Letmathe, P., Müller A.-K., Rabinovitch, I., Reicherter, K., Schwarzbauer, J., Stauch, G., Wessling, M., Yüce, S., Hecker, M., **Kidd, K.A.**, Altenburger, R., Brack, W., Schüttrumpf, H., and Hollert, H. (2017). Project House Water: A novel interdisciplinary framework to assess the environmental and socio-economic consequences of flood-related impacts. *Environmental Sciences Europe*. 29:23 (10 pp) DOI 10.1186/s12302-017-0121-1
- J95. Cowie, A.M., K.I. Sarty, A. Mercer, J. Koh, **K. A. Kidd**, and C.J. Martyniuk. 2017. Transcriptomic and proteomic analysis implicates mitochondria and the immune system as molecular targets of dieldrin in the zebrafish (*Danio rerio*) central nervous system. *J. Proteomics*. 157:71-82.
- J94. Wellman, S., **K.A. Kidd**, C.L. Podemski, P.J. Blanchfield, and M.J. Paterson. 2017. Incorporation of wastes by native biota during and after an experimental aquaculture operation. *Fresh. Sci.* 36(2): 387-401.
- J93. Lescord, G.L., M.G. Clayden, **K.A. Kidd**, X. Wang, D.C.G. Muir, and N.J. O'Driscoll. 2017. Using sulfur stable isotopes to assess mercury bioaccumulation and biomagnification in biota in temperate lake food webs. *Environ. Toxicol. Chem.* 36(3):661-670.
- J92. Graves, S.D., **K.A. Kidd**, K.L. Batchelar, A. Cowie, N.J. O'Driscoll, and C.J. Martyniuk. 2017. Transcript responses for oxidative stress in the brain of wild yellow perch (*Perca flavescens*) exposed to a gradient of methylmercury in Kejimikujik National Park, Canada. *Comparative Biochemistry and Physiology: part C*. 192:50-58.
- J91. Graves, S.D., **K.A. Kidd**, J.E. Houlahan, K.R. Munkittrick. 2017. General and histological indicators of health in wild fishes from a biological mercury hotspot in northeastern North America. *Environ. Toxicol. Chem.* 36(4):976-987.
- 2016 (8)**
- J90. Aguilar-Betancourt, C.M., G. González-Sansón, **K.A. Kidd**, K.R. Munkittrick, R.A. Curry, D. Kosonoy-Aceves, G. Lucano-Ramírez, S. Ruiz-Ramírez and J. R. Flores-Ortega. 2016. Fishes as indicators of untreated sewage contamination in a Mexican coastal lagoon. *Mar. Poll. Bull.* 113(1):100-109.
- J89. Zoeller, R.T., A. Bergman, G. Becher, P. Bjerregaard, R. Bowman, I. Brandt, T. Iguchi, S. Jobling, K.A., Kidd, A. Kortenkamp, N. Skakkebaek, J. Toppari, and L. Vandenberg. The path forward on endocrine disruptors requires focus on the basics. *Toxicol. Sci.* 149(2):272-272.
- J88. Vandenberg, L.N., M. Ågerstrand, A. Beronius, C. Beausoleil, Å. Bergman, L.A. Bero, C.-G. Bornehag, C.S. Boyer, G.S. Cooper, I. Cotgreave, D. Geek, P. Grandjean, K.Z. Guyton, U. Hass, J.J. Heindel, S. Jobling, **K.A. Kidd**, A. Kortenkamp, M.R. Macleod, O.V. Martin, U. Norinder, M. Scheringer, K.A. Thayer, J. Toppari, P. Whaley, T.J. Woodruff, C. Rudén. 2016. A proposed framework for the systematic review and integrated assessment (SYRINA) of endocrine disrupting chemicals. *Environmental Health*. 15: 74-93.
- J87. Finley, M.L., **K.A. Kidd**, R.A. Curry, G.L. Lescord, M.G. Clayden, and N.J. O'Driscoll. 2016. A comparison of mercury biomagnification through lacustrine food webs supporting brook trout and other fishes. *Frontiers in Environmental Science*, 4(23): 1-13.

- J86. Walters, D.M., T.D. Jardine, B.S. Cade, **K.A. Kidd**, D.C.G. Muir, and P. Leipzig-Scott. 2016. Trophic magnification of organic chemicals - a global synthesis. *Environ. Sci. Technol.* 50 (9): 4650–4658.
- J85. Baker, L.F., Mudge, J.F., Thompson, D.G., Houlahan, J.E., and **K.A. Kidd**. 2016. The combined influence of two agricultural contaminants of natural communities of phytoplankton and zooplankton. *Ecotoxicology* 25(5): 1021-1032.
- J84. Pippy, B.A., **K.A. Kidd**, K.R. Munkittrick, A. Mercer, and H. Hunt. 2016. Use of *Nucula proxima* and *Nephtys incisa* in a sentinel species approach for monitoring the health of Bay of Fundy estuaries. *Mar. Poll. Bull.* 106(1-2):225-235.

2015 (7)

- J83. Bergman, A., G. Becher, B. Blumberg, P. Bjerregaard, R. Bornman, I. Brandt, S.C. Casey, H. Frouin, L.C. Giudice, J.J. Heindel, T. Iguchi, S. Jobling, **K.A. Kidd**, A. Kortenkamp, P.M. Lind, D. Muir, R. Ochieng, E. Ropstad, P. S. Ross, N.E. Skakkebaek, J. Toppari, L.N. Vandenberg, T.J. Woodruff, R.T. Zoeller. 2015. Manufacturing doubt about endocrine disrupter science - A rebuttal of industry-sponsored critical comments on the UNEP/WHO report "State of the Science of Endocrine Disrupting Chemicals 2012" *Regul. Toxicol. Pharmacol.* 73: 1007-1017.
- J82. Blanchfield, P.J., **K.A. Kidd**, M. Docker, V.P. Palace, B.J. Park, and L.D. Postma. 2015. Recovery of a wild fish population from whole-lake additions of the potent estrogen in the birth control pill. *Environ. Sci. Technol.* 49(5): 3136-3144.
- J81. Müller, A.-K., M. Brinkmann, L. Baumann, M.H. Stoffel, H. Segner, **K.A. Kidd** and H. Holler. 2015. Ultrastructural alterations in tissues of yellow perch (*Perca flavescens*) from a biological mercury hotspot. *Env. Sci. Poll. Res.* 1-13.
- J80. Lescord, G.L., **K.A. Kidd**, A.O. De Silva, C. Spencer, M. Williamson, X. Wang, and D. C.G. Muir. 2015. Perfluorinated and polyfluorinated compounds in lake food webs in the Canadian high Arctic. *Environ. Sci. Technol.* 49(5):2694–2702.
- J79. **Kidd, K.A.** 2015. In Response: Environmental and biological considerations for active pharmaceutical ingredients in the environment and their effects across multiple biological scales: An academic perspective. *Environ. Toxicol. Chem.* 34(3):461-463. **Invited Perspectives Paper.**
- J78. Lescord, G.L., **K.A. Kidd**, J.L. Kirk, N.J. O’Driscoll, X. Wang, and D.C.G. Muir. 2015. Factors affecting biotic mercury concentrations and biomagnification through six lake food webs in the Canadian high Arctic. *Sci. Total Environ.* 509–510:195–205.
- J77. Clayden, M., L. Arsenault, **K.A. Kidd**, M. Mallory, and N. O’Driscoll. 2015. Mercury bioaccumulation and biomagnification in the food web of a small Arctic polynya ecosystem. *Sci. Total Environ.* 509-510:206-215.

2014 (10)

- J76. Zoeller, R.T., Å. Bergman, G. Becher, P. Bjerregaard, R. Bornman, I. Brandt, T. Iguchi, S. Jobling, **K.A. Kidd**, A. Kortenkamp, N.E. Skakkebaek, J. Toppari, and L.N. Vandenberg. 2014. The debate over health impacts of endocrine disrupting chemicals: a path forward. *Environ. Health.* 13:118
- J75. Van Geest, J.L., L.E. Burridge, F.J. Fife, and **K.A. Kidd**. 2014. Feeding response in marine copepods as a measure of acute toxicity of four anti-sea lice pesticides. *Mar. Env. Res.* 101:145-152.
- J74. Van Geest, J.L., L.E. Burridge, and **K.A. Kidd**. 2014. Toxicity of two pyrethroid-based anti-sea lice pesticides, AlphaMax® and Excis®, to a marine amphipod in aqueous and sediment exposures. *Aquaculture.* 434: 233–240.
- J73. Clayden, M.G., **K.A. Kidd**, B. Wyn, J.L. Kirk, D.C.G. Muir, and N.J. O’Driscoll. 2014. Response to comment on “Mercury biomagnification through food webs is affected by physical and chemical characteristics of lakes.” *Environ. Sci. Technol.* 48(17):10526-10527.
- J72. **Kidd, K.A.**, M. J. Paterson, M. D. Rennie, C.L. Podemski, D.L. Findlay, P.J. Blanchfield, and K. Liber.

2014. Direct and indirect responses of a freshwater food web to a potent synthetic oestrogen. *Phil. Trans. Royal Soc. B.* 1656: 20130578. **Invited.**
- J71. Baker, L., J. Mudge, J. Houlahan, D. Thompson, and **K.A. Kidd**. 2014. Direct and indirect effects of a glyphosate-based herbicide and nutrients on Chironomidae (Diptera) emerging from small wetlands. *Environ. Toxicol. Chem.* 33(9):2076–2085.
- J70. Van Geest, J.L., L.E. Burridge, and **K.A. Kidd**. 2014. The toxicity of the anti-sea lice pesticide AlphaMax® to the polychaete worm *Nereis virens*. *Aquaculture* 430:98-106.
- J69. Clayden, M.G., **K.A. Kidd**, J. Chételat, B.D. Hall and E. Garcia. 2014. Environmental, geographic and trophic influences on methylmercury concentrations in macroinvertebrates from lakes and wetlands across Canada. *Ecotoxicology* 23:273–284.
- J68. Loughery, J.R., T.J. Arciszewski, **K.A. Kidd**, A. Mercer, L.M. Hewitt, D.L. MacLatchy, and K.R. Munkittrick. 2014. Understanding the chronic impacts of oil refinery wastewater requires consideration of sediment contributions to toxicity. *Arch. Env. Contam. Toxicol.* 66(1):19-31.
- J67. Jardine, T.D., W.L. Hadwen, S.K. Hamilton, S. Hladyz, S.M. Mitrovic, **K.A. Kidd**, W.Y Tsoi, M. Spears, D.P. Westhorpe, V.M. Fry, F. Sheldon, and S.E. Bunn. 2014. Understanding and overcoming baseline isotopic variability in running waters. *River Res. Appl.* 30(2)155-165.
- 2013 (10)**
- J66. Lavoie, R.A., T.D. Jardine, M.M. Chumchal, **K.A. Kidd**, and L.M. Campbell. 2013. Biomagnification of mercury in aquatic food webs: a worldwide meta-analysis. *Environ. Sci. Technol.* 47 (23), pp 13385–13394. Editors' Choice, *Science Magazine*, 15 Nov 2013.
- J65. Clayden, M.G., **K.A. Kidd**, B. Wyn, J.L. Kirk, D.C.G. Muir, and N.J. O'Driscoll. 2013. Mercury biomagnification through food webs is affected by physical and chemical characteristics of lakes. *Environ. Sci. Technol.* 47:12047–12053.
- J64. Bergman A., A. M. Andersson, G. Becher, M. van den Berg, B. Blumberg, P. Bjerregaard, C.G. Bornehag, R. Bornman, I. Brandt, J.V. Brian, S.C. Casey, P. Fowler, H. Frouin, L.C. Giudice, T. Iguchi, U. Hass, S. Jobling, A. Juul, **K.A. Kidd**, A. Kortenkamp, et al: 2013. Science and policy on endocrine disrupters must not be mixed: a reply to a “common sense” intervention by toxicology journal editors. *Environ. Health* 2013, 12(69)1-4.
- J63. Schein, A., S.C. Courtenay, **K.A. Kidd**, K.A. Campbell, and M.R. van den Heuvel. 2013. Food web structure within an estuary of the southern Gulf of St. Lawrence undergoing eutrophication. *Can. J. Fish. Aquat. Sci.* 70(12):1805-1812.
- J62. Servos, M.R., K.R. Munkittrick, G. Constantin, R. Mngodo, N. Aladin, S. Choowaew, N. Hap, **K.A. Kidd**, E. Odada, O. Parra, G. Phillips, S. Ryanzhin, and R. Urrutia. 2013. Science and management of transboundary lakes: lessons learned from the Global Environment Facility program. *Environ. Development* 7:17-31.
- J61. Batchelar, K.L., **K.A. Kidd**, K.R. Munkittrick, P.E. Drevnick, and N.M. Burgess. 2013. Reproductive health of yellow perch (*Perca flavescens*) from a biological mercury hotspot in Nova Scotia, Canada. *Sci. Total Env.* 454–455:319–327.
- J60. Bergman, A., J.J. Heindel, T. Kasten, **K.A. Kidd**, S. Jobling, M. Neira, R.T. Zoeller, G. Becher, P. Bjerregaard, R. Bornman, I. Brandt, A. Kortenkamp, D. Muir, M.-N. Brune Drisse, R. Ochieng, N.E. Skakkebaek, A. Sundén Byléhn, T. Iguchi, J. Toppari, and T.J. Woodruff. 2013. The impact of endocrine disruption: A consensus statement on the state of the science. *Env. Health Persp.* 121(4):A104-A106.
- J59. Jardine, T.D., **K.A. Kidd**, and N. O'Driscoll. 2013. Food web analysis reveals effects of pH on mercury bioaccumulation at multiple trophic levels in streams. *Aquat. Toxicol.* 132-133:46-52.

J58. Batchelar, K.L., **K.A. Kidd**, P.E. Drevnick, K.R. Munkittrick, N.M. Burgess, A.P. Roberts, and J.D. Smith. 2013. Evidence of impaired health in yellow perch (*Perca flavescens*) from a biological mercury hotspot in northeastern North America. *Environ. Toxicol. Chem.* 32(3):627–637.

J57. Ryan, M.J., G.A. Stern, M.V. Croft, **K.A. Kidd**, S. Gewurtz, M. Diamond, and P. Roach. 2013. Biotic interactions in temporal trends (1992-2010) of organochlorine contaminants in the aquatic food web of Lake Laberge, Yukon Territory. *Sci. Total Environ.* 443:80–92.

2012 (6)

J56. Cabrera Páez, Y., C. Aguilar Betancourt, G. González-Sansón, **K. Kidd**, K. Munkittrick, and R. A. Curry. 2012. Elevated mercury, body size and changes in trophic structure of *Gambusia puncticulata* (Poeciliidae) along the Almendares River, Havana, Cuba. *Arch. Environ. Contam. Toxicol.* 63(4):523-533, DOI 10.1007/s00244-012-9801-4.

J55. **Kidd, K.A.**, D.C.G. Muir, M.S. Evans, X. Wang, M. Whittle, H.K. Swanson, T. Johnston and S. Guildford. 2012. Biomagnification of mercury through lake trout food webs with different physical, chemical and biological characteristics. *Sci. Total Environ.* 438:135–143.

J54. Clements, W.H., C.W. Hickey and **K.A. Kidd**. 2012. How do aquatic communities respond to contaminants? It depends on the context. *Environ. Toxicol. Chem.* 31(9):1-9. Invited Focus Article.

J53. Jardine, T.D., **K.A. Kidd**, and J.B. Rasmussen. 2012. Terrestrial organic matter in the diet of stream consumers: Implications for mercury bioaccumulation. *Ecol. Appl.* 22(3): 843-855.

J52. Borgå, K., **K.A. Kidd**, D.C.G. Muir, O. Berglund, J.M. Conder, F.A.P.C. Gobas, J. Kucklick, O. Malm, and D.E. Powell. 2012. Trophic magnification factors: Considerations of ecology, ecosystems and study design. *Int. Environ. Assess. Manag.* 8(1):64-84.

J51. Burkhard, L.P., C. Cowan-Ellsberry, M.R. Embry, R.A. Hoke, and **K. Kidd**. 2012. Bioaccumulation data from laboratory and field studies: Are they comparable? *Int. Environ. Assess. Manag.* 8(1):13-16.

2011 (5)

J50. Diamond, J.M., H.A. Latimer, K.R. Munkittrick, K.W. Thornton, S.M. Bartell, and **K.A. Kidd**. 2011. Prioritizing organic chemicals of emerging concern for ecological screening assessments. *Environ. Toxicol. Chem.* (30)11:2385-2394,

J49. Arciszewski, T.J., **K.A. Kidd** and K.R. Munkittrick. 2011. Comparing responses in the performance of sentinel populations of stoneflies (Plecoptera) and slimy sculpin (*Cottus cognatus*) exposed to enriching effluents. *Ecotoxicol. Environ. Saf.* 74:1844–1854.

J48. Swanson, H.K., **K.A. Kidd**, and J.D. Reist. 2011. Quantifying importance of marine prey for two partially anadromous fishes. *Can. J. Fish. Aquat. Sci.* 68: 2020–2028.

J47. Swanson, H.K., N. Gantner, **K.A. Kidd**, D.C.G. Muir, and J.D. Reist. 2011. Comparison of mercury concentrations in landlocked, resident, and searun fishes (*Salvelinus* spp.) from Nunavut, Canada. *Environ. Toxicol. Chem.* 30(6): 1459–1467.

J46. Jardine, T.D. and **K.A. Kidd**. 2011. Low concentrations of selenium in stream food webs of eastern Canada. *Sci. Total Environ.* 409: 785-791.

2010 (4)

J45. Wyn, B., **K.A. Kidd**, N.M. Burgess, R.A. Curry, and K.R. Munkittrick. 2010. Increasing mercury in yellow perch at a hotspot in Atlantic Canada, Kejimikujik National Park. *Environ. Sci. Technol.* 44:9176– 9181.

J44. Swanson, H.K. and **K.A. Kidd**. 2010. Mercury concentrations in Arctic food fishes reflect presence of anadromous Arctic charr (*Salvelinus alpinus*), species, and life history. *Environ. Sci. Technol.* 44:3286–3292.

J43. Swanson, H.K., **K.A. Kidd**, J.A. Babaluk, R.J. Wastle, P.P. Yang, N.N. Halden, and J.D. Reist. 2010. Anadromy in Arctic populations of lake trout (*Salvelinus namaycush*): otolith microchemistry, stable

- isotopes, and comparisons with Arctic char (*Salvelinus alpinus*). Can. J. Fish. Aquat. Sci. 67: 842–853.
- J42. Swanson, H.K., **K.A. Kidd**, and J.D. Reist. 2010. Effects of anadromous Arctic charr (*Salvelinus alpinus*) on the ecology of coastal Arctic lakes. Ecosystems 13(2):261-274.
- 2009 (7)**
- J41. Jardine, T.D., **K.A. Kidd**, and R.A. Cunjak. 2009. An evaluation of deuterium as a food source tracer in temperate streams. J. N. Am. Benth. Soc. 28(4): 885–893.
- J40. Wyn, B., **K.A. Kidd**, N. Burgess, R.A. Curry. 2009. Mercury bioaccumulation through the acidic food webs of Kejimikujik National Park and National Historic Site, Nova Scotia. Can. J. Fish. Aquat. Sci. 66:1532-1545.
- J39. Jardine, T.D., **K.A. Kidd**, R.A. Cunjak, P.A. Arp. 2009. Factors affecting water strider (Hemiptera: Gerridae) mercury concentrations in lotic systems. Environ. Toxicol. Chem. 28(7):1480–1492.
- J38. Kullman, M.A., **K.A. Kidd**, C.L. Podemski, P.J. Blanchfield and M.A. Paterson. 2009. Assimilation of freshwater salmonid aquaculture waste by native aquatic biota. Can. J. Fish. Aquat. Sci. 66:1965-1975.
- J37. Palace, V.P., R.E. Evans, K.G. Wautier, K.H. Mills, P.J. Blanchfield, B.J. Park, C.L. Baron, and **K.A. Kidd**. 2009. Interspecies differences in biochemical, histopathological and population responses in four wild fish species exposed to ethynylestradiol added to a whole lake. Can. J. Fish. Aquat. Sci. 66: 1920 - 1935.
- J36. Swanson, H.K. and **K.A. Kidd**. 2009. Ecological role of anadromous Arctic charr (*Salvelinus alpinus*) in coastal arctic lakes. In Haro, A. J., K. L. Smith, R. A. Rulifson, C. M. Moffitt, R. J. Klauda, M. J. Dadswell, R. A. Cunjak, J. E. Cooper, K. L. Beal, and T. S. Avery, editors. Challenges for Diadromous Fishes in a Dynamic Global Environment. American Fisheries Society Symposium. Bethesda, Maryland. 69:465–483.
- J35. Loomer, H.A., **K.A. Kidd**, T. Vickers, and A. McAslan. 2009. Swimming in sewage: indicators of faecal waste on fish in Saint John, New Brunswick. Wat. Qual. Res. J. Can. 43 (4): 283 – 290.
- 2008 (4)**
- J34. Guildford, S.J., D.C.G. Muir, M. Houde, M.S. Evans, **K.A. Kidd**, D.M. Whittle, K. Drouillard, X. Wang, R. Anderson, C.R. Bronte, D.S. DeVault, D. Haffner, J. Payne, and H.J. Kling. 2008. PCB concentrations in lake trout (*Salvelinus namaycush*) are correlated to habitat use and lake characteristics. Environ. Sci. Technol. 42(22):8239-8244.
- J33. Jardine, T.J., **K.A. Kidd**, J.T. Polhemus and R.A. Cunjak. 2008. An elemental and stable isotope assessment of water strider feeding ecology and lipid dynamics: synthesis of lab and field studies. Fresh. Biol. 53:2192–2205.
- J32. Houde, M., D.C.G. Muir, **K.A. Kidd**, S. Guildford, K. Drouillard, X. Wang, M.S. Evans, D.M. Whittle, D. Haffner and H. Kling. 2008. Influence of lake characteristics on the biomagnification of persistent organic pollutants in lake trout food webs. Environ. Toxicol. Chem. 27:2169-2178.
- J31. Knapp, C.W., D.L. Findlay, **K.A. Kidd** and D.W. Graham. 2008. A comparative assessment of molecular biological and direct microscopic techniques for assessing aquatic systems. Environmental Monitoring and Assessment 145: 465-473.
- 2007 (2)**
- J30. **Kidd, K.A.**, P.J. Blanchfield, K.H. Mills, V.P. Palace, R.E. Evans, J.M. Lazorchak and R. Flick. 2007. Collapse of a fish population following exposure to a synthetic estrogen. Proc. Nat. Acad. Sci. 104(21):8897-8901.
- J29. Kullman, M.A., C.L. Podemski and **K.A. Kidd**. 2007. A sediment bioassay to assess the effects of aquaculture waste on growth, reproduction, and survival of *Sphaerium simile* (Say) (Bivalvia: Sphaeriidae). Aquaculture 266 (1-4):144-152.

2006 (3)

- J28. Jardine, T.D., **K.A. Kidd** and A.T. Fisk. 2006. Applications and assumptions of stable isotope analysis in ecotoxicology. *Environ. Sci. Technol.* 40(24):7501-7511.
- J27. Werner, J., K. Wautier, K. Mills, S. Chalanchuk, **K. Kidd** and V. Palace. 2006. Reproductive fitness of lake trout (*Salvelinus namaycush*) exposed to environmentally relevant concentrations of the potent estrogen ethynylestradiol (EE2) in a whole lake exposure experiment. In Eds. M.P. Olivar and J. J. Govoni "Recent Advances in the Study of Fish Eggs and Larvae." *Scientia Marina* 70S2:59-66.
- J26. Palace, V.P., K.G. Wautier, R.E. Evans, P. Blanchfield, K. Mills, S. Chalanchuk, D. Godard, M. McMaster, G. Tetrault, L.E. Peters, L. Vandenbyllardt and **K.A. Kidd**. 2006. Biochemical and histopathological effects in pearl dace (*Margariscus margarita*) chronically exposed to a synthetic estrogen in a whole lake experiment. *Environ. Toxicol. Chem.* 25(4): 1114-1125.

2005 (4)

- J25. Lockhart, W.L., G.A. Stern, G. Low, M. Hendzel, G. Boila, P. Roach, M.S. Evans, B.N. Billeck, J. DeLaronde, S. Friesen, **K. Kidd** and 10 others. 2005. A history of total mercury in edible muscle of fish from lakes in northern Canada. *Sci. Total Environ.* 351-352:427-463.
- J24. Park, B.J. and **K.A. Kidd**. 2005. Effects of the synthetic estrogen ethynylestradiol on early life states of mink frogs and green frogs in the wild and *in situ*. *Environ. Toxicol. Chem.* 24(8): 2027-2036.
- J23. Evans, M.S., W.L. Lockhart, L. Doetzel, G. Low, D. Muir, **K.A. Kidd**, G. Stephens, and J. Delaronde. 2005. Elevated mercury levels in fish in lakes in the Mackenzie River Basin: the role of fish age and lake size. *Sci. Total Environ.* 351-352:479-500.
- J22. Ryan, M.J., G.A. Stern, M. Diamond, M.V. Croft, P. Roach, and **K.A. Kidd**. 2005. Temporal trends of organochlorine contaminants in burbot and lake trout from selected Yukon lakes. *Sci. Total Environ.* 351-352:501-522.

2004-1993 (21)

- J21. **Kidd, K.A.**, G. A. Stern, and J. Lemoalle. 2004. Mercury and other contaminants in fish from Lake Chad (Africa). *Bull. Environ. Contam. Toxicol.* 73(2):249-256.
- J20. **Kidd, K.A.**, H.A. Bootsma, R.H. Hesslein, L. Lockhart and R.E. Hecky. 2003. Mercury concentrations in the food web of Lake Malawi, East Africa. *J. Great Lakes Res.* 29(2): 258-266.
- J19. Werner, J., K. Wautier, R.E. Evans, C. L. Baron, **K. Kidd** and V. Palace. 2003. Waterborne ethynylestradiol induces vitellogenin and alters metallothionein in lake trout (*Salvelinus namaycush*). *Aquat. Toxicol.* 62:321-328.
- J18. Blais, J.M., F. Wilhelm, **K.A. Kidd**, D.C.G. Muir, D.B. Donald, and D.W. Schindler. 2003. Concentrations of organochlorine pesticides and PCBs in amphipods (*Gammarus lacustris*) along an elevation gradient in mountain lakes of western Canada. *Environ. Toxicol. Chem.* 22(11): 2605-2613.
- J17. Stewart, A.R., G.A. Stern, W.L. Lockhart, **K.A. Kidd**, A. Salki, M.P. Stainton, K. Koczanski, G.B. Rosenberg, D.A. Savoie, B. Billeck, P. Wilkinson, and D.C.G. Muir. 2003. Assessing variability in organochlorine concentrations in Lake Winnipeg fish following the 1997 Red River Flood. *J. Great Lakes Res.* 29(2):332-354.
- J16. Palace, V, R.E. Evans, K. Wautier, Baron, C., L. Vandenbyllardt, W. Vandersteen and **K. Kidd**. 2002. Induction of vitellogenin and histological effects in wild fathead minnows from a lake experimentally treated with the synthetic estrogen, ethynylestradiol. *Wat. Qual. Res. J. Can.* 37(3):637-650.
- J15. Vinebrooke, R.D., M.A. Turner, **K.A. Kidd**, B.J. Hahn and D.W. Schindler. 2001. Truncated food-web effects of omnivorous minnows in a recovering acidified lake. *J. N. Am. Benthol. Soc.* 20(4):629-642.
- J14. Palace, V.P., T.A. Dick, R.E. Evans, K. Wautier, C.L. Baron, J. Werner, J.F. Klaverkamp, and **K.A. Kidd**. 2001. Altered metabolism of lipid soluble antioxidant vitamins in juvenile sturgeon exposed to

- waterborne ethynylestradiol. *Environ. Toxicol. Chem.* 20(10):2370-2376.
- J13. **Kidd, K.A.**, H.A. Bootsma, R.H. Hesslein, D.C.G. Muir and R.E. Hecky. 2001. Biomagnification of DDT through the benthic and pelagic food webs of Lake Malawi, East Africa: importance of trophic level and carbon source. *Environ. Sci. Technol.* 35:14-20.
- J12. Palace V.P., K. Wautier, R.E. Evans, C.L. Baron, J. Werner, C.R. Ranson, J.F. Klaverkamp, and **K. Kidd**. 2000. Effects of 17 β -estradiol exposure on metallothionein and fat soluble antioxidant vitamins in juvenile lake trout (*Salvelinus namaycush*). *Bull. Environ. Contam. Toxicol.* 66:591-596.
- J11. Karlsson, H., D.C.G. Muir, C.F. Teixeira, D.A. Burniston, W.M.J. Strachan, R.E. Hecky, J. Mwita, H.A. Bootsma, N.P. Grift, **K.A. Kidd**, and B. Rosenberg. 2000. Persistent chlorinated pesticides in air, water and precipitation from the Lake Malawi Area, southern Africa. *Environ. Sci. Technol.* 34:4490-4495
- J10. Campbell, L.M., D.W. Schindler, D. C. G. Muir, D. B. Donald, and **K.A. Kidd**. 2000. Organochlorine transfer in a sub-alpine food web (Bow Lake, Banff National Park). *Can. J. Fish. Aquat. Sci.* 57:1258-1269.
- J9. Braune, B., D. Muir, B. DeMarch, M. Gamberg, K. Poole, R. Currie, M. Dodd, W. Duschenko, J. Eamer, B. Elkin, M. Evans, S. Grundy, C. Hebert, R. Johnstone, **K. Kidd**, B. Koenig, L. Lockhart, H. Marshall, K. Reimer, J. Sanderson and L. Shutt. 1999. Spatial and temporal trends of contaminants in Canadian Arctic freshwater and terrestrial ecosystems: a review. *Sci. Total Environ.* 230:145-207
- J8. **Kidd, K.A.**, M.A. Paterson, R.H. Hesslein, D.C.G. Muir and R.E. Hecky. 1999. Effects of northern pike (*Esox lucius*) additions on pollutant accumulation and food web structure, as determined by $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$, in a eutrophic and an oligotrophic lake. *Can. J. Fish. Aquat. Sci.* 56:2193-2202.
- J7. **Kidd, K.A.**, R.H. Hesslein, B.J. Ross, K. Koczanski, G.R. Stephens and D.C.G. Muir. 1998. Bioaccumulation of organochlorines through a remote freshwater food web in the Canadian Arctic. *Environ. Poll.* 102:91-103.
- J6. **Kidd, K.A.**, D.W. Schindler, R.H. Hesslein and D.C.G. Muir. 1998. Effects of trophic position and lipid on organochlorine concentrations in fishes from subarctic lakes in Yukon Territory. *Can. J. Fish. Aquat. Sci.* 55:869-881.
- J5. **Kidd, K.A.**, D.W. Schindler, D.C.G. Muir, W.L. Lockhart, and R.H. Hesslein. 1995. High concentrations of toxaphene in fishes from a subarctic lake. *Science* 269:240-242.
- J4. **Kidd, K.A.**, R.H. Hesslein, R.J.P. Fudge, and K.A. Hallard. 1995. The influence of trophic level as measured by $\delta^{15}\text{N}$ on mercury concentrations in freshwater organisms. *Water, Air, Soil Poll.* 80:1011-1015.
- J3. Schindler, D.W., **K.A. Kidd**, D.C.G. Muir and W.L. Lockhart. 1995. The effects of ecosystem characteristics on contaminant distribution in northern freshwater lakes. *Sci. Total Environ.* 160/161:1-18.
- J2. **Kidd, K.A.**, D.W. Schindler, R.H. Hesslein and D.C.G. Muir. 1995. Correlation between stable isotopes of nitrogen and organochlorine concentrations in biota from a freshwater food web. *Sci. Total Environ.* 160/161:381-390.
- J1. **Kidd, K.A.**, J.E. Eamer, and D.C.G. Muir. 1993. Spatial variability of chlorinated bornanes (toxaphene) in fishes from Yukon lakes. *Chemosphere* 27(10):1975-1986.

PEER-REVIEWED BOOK CHAPTERS (13)

- C13. Lucotte, M., L. Campbell, M. Clayden, C. Eckley, R. Harris, M. Kelly, **K. Kidd**, D. Lean, M. Moingt, S. Paquet, R. Pannu, M. Parsons, and M. Paterson. 2014. Chapter 8 Influences of anthropogenic activities on mercury transport, methylation, and bioaccumulation. *In*: Ed. Steffen, A. Canadian Mercury Science Assessment, In press.

- C12. Jobling, S., P. Bjerregaard, B. Blumberg, I. Brandt, J. V. Brian, S. Casey, H. Frouin, L. Giudice, J. J. Heindel, T. Iguchi, **K. A. Kidd**, A. Kortenkamp, M. Lind, E. Ropstad, P. Ross, N. E. Skakkebaek, J. Toppari, T. J. Woodruff, R. T. Zoeller. 2012. Chapter 2 Evidence for endocrine disruption in humans and wildlife. *In*: Eds. Bergman, A., J.J. Heindel, S. Jobling, K.A. Kidd, and R.T. Zoeller. "State-of-the-Science of Endocrine Disrupting Chemicals – 2012", United Nations Environment Programme and World Health Organization. Pp 23-188.
- C11. **Kidd, K.A.**, G. Becher, Å. Bergman, D.C.G. Muir and T. J. Woodruff. 2012. Chapter 3, Human and wildlife exposures to EDCs. *In*: Eds. Bergman, A., J.J. Heindel, S. Jobling, K.A. Kidd, and R.T. Zoeller. "State-of-the-Science of Endocrine Disrupting Chemicals – 2012", United Nations Environment Programme and World Health Organization. Pp 189-250.
- C10. **Kidd, K.A.**, M. Clayden, and T. Jardine. 2012. "Bioaccumulation and biomagnification of mercury in food webs." Chapter 14, p. 455-500. *In*: Liu G., Y. Cai, and N. O'Driscoll (Eds.), *Environmental Chemistry and Toxicology of Mercury*, John Wiley & Sons, Inc, New Jersey.
- C9. **Kidd, K.A.** and K. Batchelar. 2011. "Mercury", Chapter 14, p. 238-295, *In*: Wood, C.M., A.P. Farrell, and C.J. Brauner (Eds.) *Homeostasis and Toxicology of Non-Essential Metals (Fish Physiology Volume 31b)*, Elsevier Press.
- C8. Metcalfe, C., **K.A. Kidd** and J. Sumpter. 2010. Chemically-induced alterations to gonadal development in fish. Chapter 2, p. 144-165. *In*: J.F. Leatherland and P. Woo (Eds.) *Fish Diseases and Disorders: Non-infectious Disorders*, 2nd Edition, CABI Publ., U.K.
- C7. Munkittrick, K.R., R.A. Curry, J.M. Culp, R.A. Cunjak, D.L MacLatchy, **K.A. Kidd**, S.E. Dalton, D.J. Baird and R. Newbury. 2007. The Saint John River. p. 129-145 *In*: C. King, J. Ramkissoon, & M. Clüsener-Godt (Eds.) *Water and Ecosystems: Managing Water in Diverse Ecosystems to Ensure Human Well-being*. UNU-INWEH, Hamilton, ON. ISBN 92-808-6002-X
- C6. Luoma, S., A.R. Stewart, and **K.A. Kidd**. 2005. Processes affecting trophic transfer and resultant effects of metals. p. 247-262. *In*: J. Meyer (Ed.) *Toxicity of Dietborne Metals*. SETAC Press, Pensacola, USA.
- C5. Adams, W.J., A.R. Stewart, **K.A. Kidd**, K.V. Brix, and D.K. DeForest. 2005. Case histories of dietborne exposure to mercury and selenium in aquatic ecosystems. p 263-274 *In*: J. Meyer (Ed.) "Toxicity of Dietborne Metals" SETAC Press, Pensacola, USA. 303 pp.
- C4. Schlekat, C.E., **K.A. Kidd**, W.J. Adams, D.J. Baird, A.M. Farag, L. Maltby, and A.R. Stewart. 2005. Toxic effects of dietborne metals: field studies. Chapter 4 p 113-152 *In*: J. Meyer (Ed.) "Toxicity of Dietborne Metals" SETAC Press, Pensacola, USA. 303 pp.
- C3. Bodaly, R.A. and **K.A. Kidd**. Mercury contamination of lake trout ecosystems. 2003. Chapter 9 *In* J.M. Gunn, R.J. Steedman and R.A. Ryder (Eds.) "Boreal Shield Watersheds: Lake Trout Ecosystems in a Changing Environment." Lewis Publishers, New York.
- C2. Baird D.J., T.C.M. Brock, P.C. de Ruiter, A.B.A. Boxall, J.M. Culp, P. Eldridge, U. Hommen, R.G. Jak, **K.A. Kidd** and T. Dewitt. 2001. The food web approach in the environmental management of toxic substances. pp 83-122 *In*: Baird DJ & Burton GA (Eds.) "Ecological Variability: Separating Anthropogenic from Natural Causes of Ecosystem Impairment." SETAC Press, Pensacola, USA.
- C1. **Kidd, K.A.** 1998. Use of stable isotope ratios in freshwater and marine biomagnification studies. Chapter 17 pp 359-378 *In*: J. Rose (Ed.) "Environmental Toxicology: Current Developments." Gordon and Breach Science Publishers, Britain.

PEER-REVIEWED BOOKS (1)

- B1. Bergman, A., J.J. Heindel, S. Jobling, **K.A. Kidd**, and R.T. Zoeller (Eds.) 2012. "State of the Science of Endocrine Disrupting Chemicals – 2012", Geneva, Switzerland, World Health Organization / United Nations Environment Programme. 260 pp. ISBN:978-92-807-3274-0

PEER-REVIEWED REPORTS (7)

- R7. Van Geest, J.L., **Kidd, K.A.**, Hunt, H.L., Abgrall, M.J., Maltais, M.J., and A. Mercer. 2015. Development of baseline data for long-term monitoring of sediment conditions at reference sites in Saint John Harbour, New Brunswick: benthic infaunal invertebrates and sediment contaminants 2011-2013. *Can. Manuscr. Rep. Fish. Aquat. Sci.* 3076: v + 97 p.
- R6. Outridge P., K.M. Dunmall, K.M., Furgal, C., Gérin-Lajoie, J., Henry, G., **Kidd, K.A.**, Kissinger, B.A., Knopp, J.A., Kokelj, S., Lantz, T., Latour, P., Lévesque, E., Mochnac, N.J., Myers-Smith, I., Nguyen, L.P., Reid, D., Reist, J.D., Sawatzky, C.D., Stern, G.A., Swanson, H., Vincent, W.F. 2014. Chapter 3. Terrestrial and Freshwater Systems. In Stern, G.A. and Gaden, A. (Eds) *From Science to Policy in the Western and Central Canadian Arctic: An Integrated Regional Impact Study (IRIS) of Climate Change and Modernization*. ArcticNet, Quebec City, 432 pp.
- R5. Mercer, A. and **K.A. Kidd**. 2015. Ecological Risk Assessment for the Bay of Fundy: DDT and Mercury. Bay of Fundy Ecosystem Partnership Technical Report No. 9. Bay of Fundy Ecosystem Partnership, Tantallon, NS. 57 p. ISBN 978-0-9783120-6-0
- R4. Culp, J.M., W. Goedkoop, J. Lento, K.S. Christoffersen, S. Frenzel, G. Guðbergsson, P. Liljaniemi, S. Sandøy, M. Svoboda, J. Brittain, J. Hammar, D. Jacobsen, B. Jones, C. Juillet, M. Kahlert, **K. Kidd**, E. Luiker, J. Olafsson, M. Power, M. Rautio, A. Ritcey, R. Striegl, M. Svenning, J. Sweetman, and M. Whitman. 2012. Arctic Freshwater Biodiversity Monitoring Plan, Circumpolar Biodiversity Monitoring Program.
- R3. Bergman, A., J.J. Heindel, S. Jobling, **K.A. Kidd**, and R.T. Zoeller. 2012. Why are we concerned about endocrine disruptors? Summary for Decision Makers of the “State of the Science of Endocrine Disrupting Chemicals – 2012”, United Nations Environment Programme and World Health Organization. 28 pp.
- R2. Munkittrick, K. G. Constantin, M. Servos, N. Aladin, S. Choowaew, N. Hap, **K. Kidd**, E. Odada, O. Parra, G. Phillips, S. Ryanzhin, R. Urrutia. 2012. Lakes: A global Synopsis of Lakes science and transboundary management. Synopsis Report of the Lakes Working Group, GEF IW Science. United Nations University Institute for Water, Environment and Health (UNU-INWEH), Hamilton, Canada. 36 p. ISBN 92-808-6021-6.
- R1. **Kidd, K.A.** and A. Mercer. 2012. Chemicals of emerging concern in the Bay of Fundy watershed: What are the risks? Bay of Fundy Ecosystem Partnership Technical Report No. 7, 22 p.

PRESENTATIONS AND OTHER CONTRIBUTIONS**SESSIONS CHAIRED (2004 – PRESENT)**

12. Co-chair (with Eagles-Smith, C., Stewart, R.) “Mercury fate in aquatic and terrestrial food webs” International Conference on Mercury as a Global Pollutant, 17-21 July 2017, Providence, RI.
11. Co-chair (with Swanson, H., Blais, J.) “From Phosphates to Food Webs: A Tribute to David Schindler's Legacy in Aquatic Science. SETAC World Council, 8-12 Nov 2016, Orlando, FL.
10. Co-chair (with Barra, R.) “Environmental Governance and Mercury: Lessons from other Conventions” at the “Global Environmental Change and Mercury Pollution: Environmental Governance, Research and Management of Converging Issues” SETAC special science symposium, 20-21 Oct 2015, Brussels, Belgium.
9. Co-chair (with Servos, M.) “Municipal wastewater” session, Canadian Ecotoxicity Workshop, 6 Oct 2015, Saskatoon, SK.
8. Co-chair (with Bank, M., Basu, N.) “UNEP Minamata Convention on mercury pollution: science for successful implementation.” SETAC North America, Vancouver, 12 Nov 2014.
7. Co-chair (with Borga, K.) “Advantages and disadvantages of using Trophic Magnification Factors to assess food web biomagnification.” SETAC Europe, Glasgow, May 2013

6. Co-chair (with R. Klaper). "Presence and impacts of emerging contaminants in aquatic systems." ASLO session, New Orleans, Feb 2013
5. Co-chair of session "Advances in the Fields of Environmental Chemistry and Toxicology from Studies and Manipulations of Ecosystems", Society of Environmental Toxicology and Chemistry Meeting, New Orleans, Nov 2009.
4. Co-chair of session "Uses and abuses of stable isotopes in ecotoxicology." Society of Environmental Toxicology and Chemistry Meeting, Baltimore, MD, Nov 2005.
3. Chair of session entitled "Sewage Effluents, Pharmaceuticals and PPCPs in the Environment." Aquatic Toxicity Workshop, Waterloo, ON, Oct 2005.
2. Co-chair of session entitled "Effects of Freshwater Aquaculture." Aquatic Toxicity Workshop, Waterloo, ON, Oct 2005.
1. Co-chair of session on "Pharmaceuticals" at Aquatic Toxicity Workshop, Charlottetown, PEI, Oct 2004.

KEYNOTE AND PLENARY ADDRESSES (2007 – PRESENT)

25. "Estrogens and male fishes: what do we know and where should we go? SETAC Prairie and Northern Chapter meeting, Winnipeg, 17 Jun 2016.
24. "Mercury in Fish: Models, Drivers and Patterns", SETAC Special Science Symposium on "Global Environmental Change and Mercury Pollution: Environmental Governance, Research and Management of Converging Issues", Brussels, Belgium, 20-21 Oct 2015.
23. "Endocrine disrupters in humans and wildlife", Shanghai Workshop on Endocrine Disrupters, Tongji University, Shanghai, China, 23 Oct 2015.
22. "Mercury in freshwater fishes", SETAC Minamata Convention workshop, Brussels, 20 Oct 2015.
21. "Contaminants of emerging concern" Canadian Water Network Conference, Connecting Water Resources 2015: Knowledge to Action, Ottawa, 10-12 Mar 2015. Plenary.
20. "What happens in a lake when you put fish on the birth control pill?" **2014 Watershed Lecture**, Vale Living with Lakes Centre, Sudbury, 28 Nov 2014.
19. "Is the birth control pill effective for fish? Results of a whole lake experiment at the Experimental Lakes Area." Nordic Environmental Chemistry Conference, Reykjavik, Iceland, 11-13 Jun 2014.
18. "Emerging contaminants and aquatic food webs." Gordon Conference, Oceans and Human Health, Biddeford, ME, 1-6 Jun 2014.
17. "Direct and indirect effects of a potent estrogen on an aquatic food web" CSEE/CSZ/SCL joint meeting, Montreal, 27 May 2014.
16. "The birth control pill in municipal wastewaters: is it effective contraception for fishes?" Pharmaceuticals in the Environment – Global occurrence, effects, and options for action. SAICM/UNEP/German Ministry for the Environment/IWW, Geneva, 8-9 Apr 2014.
15. "The threat of endocrine disruptors in freshwater ecosystems" Letting in the Light: Science to Guide Public Water Policy in the 21st Century. University of Alberta, Symposium in honour of David Schindler, 31 Oct 2013.
14. "Exposures of humans and wildlife to endocrine disruptors" and "Endocrine disruption in wildlife". Strategic Approach to International Chemicals Management, Central Eastern European Regional Meeting, Skopje, 23 Sept 2013.
13. "Human and wildlife exposures to endocrine disrupting chemicals" and "Effects of endocrine disruptors on wildlife". 4th on the Strategic Approach to International Chemicals Management, Latin American and Caribbean Regional Meeting, Mexico City, Mexico, 19-23 Aug 2013.
12. "Effects of a potent estrogen mimic on a whole lake." Association for the Sciences of Limnology and Oceanography (ASLO), New Orleans, 17-22 Feb 2013.
11. "Exposure to known and potential endocrine disrupting chemicals – developments over a decade.

International Conference on Chemicals Management 3, Nairobi, Kenya, 16 Sept 2012.

10. "Exposure to endocrine disrupting chemicals." International Conference on Chemicals Management 3, Nairobi, Kenya, 16 Sept 2012.
9. "Recent advances in our understanding of endocrine disruptors." EUROTOX, Stockholm, Sweden, 16 Jun 2012.
8. "Estrogens in the aquatic environment: What are the risks?" SETAC North Atlantic Chapter meeting, Freeport, ME, 8-10 Jun 2011.
7. "Are estrogens in the environment a risk to aquatic organisms?" U.S. National Academy of Sciences, 17th Annual German-American Kavli Frontiers of Science Symposium, Irvine, CA, 9-11 April 2011.
6. "Effects of a synthetic estrogen on aquatic food webs." Pharmaceuticals in the Environment: Lessons Learned Workshop, University of Guelph, Guelph, ON, 27 Feb 2010.
5. "Is the birth control pill an effective form of contraception for wild fish? Results from a whole lake experiment." EmCon 2009, Fort Collins, CO, 4 Aug 2009.
4. "Effects of a potent estrogen on aquatic populations: Results of a whole lake experiment. Canadian Water Network's Workshop on Emerging Contaminants, Toronto, ON, 3 Jun 2009.
3. "What happens when wild fishes go on the birth control pill?" Society of Environmental Toxicology and Chemistry 29th Annual Meeting, Tampa, FL, Nov 2008.
2. "Is the birth control pill an effective form of contraception for wild fishes?" 8th International Congress on the Biology of Fish, Portland, OR, 28 Jul 2008.
1. "Responses of a freshwater food web to whole-lake additions of a potent estrogen." Canadian Conference for Fisheries Research/Society of Canadian Limnologists meeting, **Annual Stevenson Lecture**, Montreal, QC, 5 Jan 2007.

SERVICE ON PROFESSIONAL AND LEARNED SCIENCE COMMITTEES

Provincial:

1. Premier-appointed member of Scientific Advisory Council, Energy Institute, Jul 2013 – Dec 2016.

National:

1. NSERC:
 - a. Evolution and Ecology Grant Selection Committee, Group Chair, 2015-18.
 - b. Highly Qualified Personnel Subcommittee, 2016.
 - c. Vanier Canada Graduate Scholarships Committee, 2014-18.
 - d. Strategic Networks Grants Review Committee, 2014-16.
 - e. Evolution and Ecology Grant Selection Committee, 2008–11; Co-chair 2010-11.
2. Canadian Rivers Institute:
 - a. Treasurer and Management Board Member 2004-10.
 - b. Elected Chair of the Science Directors Board and Management Board Member 2012-15.
 - c. Science Director and Fellow 2004-present.
3. Canadian Water Network
 - a. Expert Advisory Committee for Wastewater and Stormwater Report and Workshop (2016-17)
 - b. Program Leader for national program "Toolbox to Assess Endocrine Effects of Municipal Wastewater" (2013-16)
4. International Institute of Sustainable Development, Research Advisory Board Member for

Experimental Lakes Area, 2014 – present.

5. Aquatic Toxicity Workshop, Co-chair of meeting (Oct 2007, Halifax, NS) and board member 2005-08.

International:

1. Independent Science Panel, Review of Mercury Strategy for Bay-Delta Ecosystem, California, US Geological Survey, 2015-present.
2. Organizing committee member for SETAC workshop entitled “Guidance for Environmental Hazard and Risk Assessment Approaches for Endocrine-Active Chemicals (GEHRA): A Case Studies Approach.”, 31 Jan – 4 Feb, 2016, Pensacola, FL.
3. Organizing committee member for SETAC workshop entitled “Endocrine Disruption: Chemical Testing, Risk Assessment Approaches and Implications.” 4-6 February, 2014, Research Triangle Park, NC.
4. United Nations Environment Programme/World Health Organization Committee Member and Co-Editor reviewing the state of the science on environmental endocrine disruptors, 2010-13.
5. International Joint Commission Expert Panel Member to develop a monitoring program to assess ecosystem health in the Laurentian Great Lakes, 2011.
6. Global Environment Facility Lakes Working Group Member for project ‘Enhancing the use of Science of International Waters projects to improve project results’, United Nations Environment Programme, 2010–11.
7. Local Organizing Committee for 10th International Conference on Mercury as a Global Pollutant conference, Halifax, NS (24-29 Jul 2011), 2009–11.
8. Environmental Health News, Science Communication Fellow, 2009.
9. U.S. EPA Science Advisory Board Ecological Processes and Effects Committee to review white paper on methodology for deriving aquatic life water quality criteria for emerging contaminants. Washington, D.C. 2008.
10. Society of Environmental Toxicology and Chemistry (SETAC):
 - a. Elected to North American (NA) Board of Directors, 3 year term, 2006-09
 - b. Member of the NA Nominations Committee, 2007-10
 - c. Member of the NA Executive Committee, 2008, 2009
 - d. Member of NA Endowment Fund Board of Trustees, 2010-13
 - e. Co-chair of Global Publications Advisory Committee, 2013-pres.
 - f. Steering Group Member and Co-Chair of Global Advisory Group on Endocrine Disrupter Testing & Risk Assessment, 2012–pres; Co-chair 2014-pres.
 - g. World Council Science Committee, 2003-06.
 - h. Organizing Committee Member for NA meeting in Montreal, QC, Nov 2006.