

**Marsha C. Black, PhD**

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**Education:**

PhD	Ecology	University of Tennessee	1989
BA	Comprehensive Science	Converse College	1975

**Academic and Research Experience:**

7/12-present Associate Professor, Department of Environmental Health Science, The University of Georgia, Athens, GA

8/08-7/12 Assistant Dean for Undergraduate Studies (Interim while seeking Provost approval of position, 8/08-8/10), College of Public Health; Associate Professor, Graduate Coordinator (7/08-6/09), Department of Environmental Health Science, The University of Georgia, Athens, GA

7/06 – 8/08 Interim Department Head and Undergraduate Coordinator; Department of Environmental Health Science, College of Public Health, The University of Georgia, Athens, GA

1/06 – 6/06 Associate Professor and Undergraduate Coordinator, Department of Environmental Health Science, College of Public Health, University of Georgia, Athens, GA

7/00 – 12/05 Associate Professor and Undergraduate Coordinator (7/01-12/05), Department of Environmental Health Science, College of Agricultural and Environmental Sciences, University of Georgia, Athens, GA

1/95 - 6/00 Assistant Professor, Department of Environmental Health Science, College of Agricultural and Environmental Sciences, The University of Georgia, Athens, GA

8/90 - 12/94 Assistant Professor, Department of Zoology, Oklahoma State University, Stillwater, OK

5/89 - 7/90 Postdoctoral Research Associate, Department of Biology, University of Joensuu, Joensuu, Finland

**Peer-reviewed Publications**

1. Chong, KP, RM Burch, M Black, E Maloney, DJ Jollow, and PV Halushka. 1983. Vasopressin stimulates thromboxane synthesis in isolated hamster hepatocytes: Relationship to hepatocyte calcium content. *Prostaglandins* 26:397-408
2. McCarthy, JF, BD Jimenez, GR Southworth, DM DiToro, and MC Black. 1986. Anomalous binding of organic contaminants may be artifactual due to radiochemical impurities. *Water Research* 20:1251-1254.
3. McCarthy, JF and MC Black. 1987. Partitioning between dissolved organic macromolecules and suspended particulates: Effects on bioavailability and transport of hydrophobic organic contaminants in aquatic systems. In: W. J. Adams, G. A. Chapman, and W. G. Landis (Eds.), *Aquatic Toxicology and Hazard Assessment: Tenth Volume, ASTM STP 971*. American Society for Testing and Materials, Philadelphia, PA, pp. 233-246.
4. Black, MC and JF McCarthy. 1988. Dissolved organic macromolecules reduce the uptake of organic contaminants by the gills of rainbow trout (*Salmo gairdneri*). *Environmental Toxicology and Chemistry* 7:593-600.
5. Black, MC and JF McCarthy. 1990. Effects of sublethal exposure to chlorine on the uptake of polychlorinated biphenyl congeners by rainbow trout, *Salmo gairdneri* (Richardson). *Aquatic Toxicology* 17:275-290.
6. Black, MC, DS Millsap, and JF McCarthy. 1991. Effects of acute temperature change on respiration and toxicant uptake by rainbow trout, *Salmo gairdneri*. *Physiological Zoology* 64:145-168.

7. Halbrook, RS, JM Loar, SM Adams, MC Black, et al., 1992. Tennessee's East Fork Poplar Creek: A biological monitoring and abatement program. *Canadian Technical Report of Fisheries and Aquatic Sciences*: 187-189.
8. Ewing, MS, MC Black, VS Blazer, and KM Kocan. 1994. Plasma chloride and gill epithelial response of channel catfish to infection with *Ichthyophthirius multifiliis*. *Journal of Aquatic Animal Health* 6:187-196.
9. Black, MC, K Björkroth, and A Oikari. 1995. Probing the routes, rates, and mechanisms of xenobiotic elimination by rainbow trout (*Oncorhynchus mykiss*) with a physiological chamber. *Environmental Toxicology and Risk Assessment - Third Volume, ASTM STP 1218*, pp. 351-364. Jane S. Hughes, Gregory R. Biddinger, and Eugene Mones, (Eds.), American Society for Testing and Materials, Philadelphia.
10. Martin, LK, Jr. and MC Black. 1995. An aquatic cage design for evaluating exposure routes in *in-situ* xenobiotic studies. *Progressive Fish-Culturist* 57:323-325.
11. Martin, L.K., Jr. and M.C. Black. 1996. Biomarker assessment of the effects of petroleum contamination on channel catfish. *Ecotoxicology and Environmental Safety* 33:80-86.
12. Black, MC, JR Ferrell, RC Horning, and LK Martin, Jr. 1996. DNA strand breakage in freshwater mussels (*Anodonta grandis*) exposed to lead in the laboratory and field. *Environmental Toxicology and Chemistry* 15:802-808.
13. Black, MC, SM Westerfield, JI Belin, and KB Van Vreede. 1997. Biomarker assessment of environmental contamination: *In-situ* studies with freshwater mussels, pp. 193-196, K. J. Hatcher (ed.), *Proceedings of the Georgia Water Resources Conference*, Univ. of Georgia, Athens, GA
14. Westerfield, S.M. and M.C. Black. 1997. Comparison of constant voltage and field inversion gel electrophoresis methods for measuring DNA strand breakage in freshwater bivalves. *Toxicology Methods* 7:111-122.
15. Hitchcock, DR, MC Black and PL Williams. 1997. Assessing toxicity trends in municipal and industrial wastewaters using the nematode *Caenorhabditis elegans*. *Archives of Environmental Contamination and Toxicology* 33:252-260.
16. Black, MC and JI Belin. 1998. Evaluating sublethal indicators of stress in Asiatic clams (*Corbicula fluminea*) caged in an urban stream, pp. 76-91 in: E.E. Little, A. J. Delonay, and B.M. Greenberg (eds.), *Environmental Toxicology and Risk Assessment: Seventh Volume, ASTM STP 1333*, American Society for Testing and Materials, West Conshohocken, PA
17. Martin, LK, Jr. and MC Black. 1998. Biomarker assessment of the effects of strip-mine contamination on channel catfish. *Ecotoxicology and Environmental Safety* 41:307-320.
18. Conners, DE, SM Westerfield, A Feyko, MC Black, 1999. Lead accumulation in soft tissues and shells of Asiatic clams (*Corbicula fluminea*), pp.597-600, In: K. J. Hatcher (ed.), *Proceedings of the Georgia Water Resources Conference*, University of Georgia, Athens, GA.
19. Van Vreede, KB, DL MacIntosh, MC Black. 1999. Estimation of time-to-gravid for freshwater mussels (*Utterbackia imbecilis*) in the laboratory: Effect of temperature conditioning. *Environmental Toxicology and Chemistry* 18:1469-1473.
20. Belin, JI, TA McCaskey, and MC Black. 2000. Evaluating the efficiency of toxicity abatement in a constructed wetland with *Ceriodaphnia dubia*. *Journal of Toxicology and Environmental Health Part A*, 60:101-115.
21. Barfield, ML, JL Farris, and MC Black. 2001. Biomarker and bioaccumulation responses of Asian clams exposed to aqueous cadmium. *Journal of Toxicology and Environmental Health Part A* 63:495-510.
22. Black, MC and PL Williams. 2001. Preliminary assessment of metal toxicity in the Middle Tisza River (Hungary) Flood Plain. *Journal of Soils and Sediments* 1: 203-206.
23. Fischer, JG, HP Glauert, T Yin, ML Sweeney-Reeves, N Larmonier and MC Black. 2002. Moderate iron overload enhances lipid peroxidation in livers of rats, but does not affect NF-kappa N activation induced by the peroxisome proliferator, Wy-14,643. *Journal of Nutrition* 132: 2525-2531.

24. Konwick, B, K Xia, and M Black. 2003. Toxicity of biosolid elutriates from different wastewater treatment processes to *Ceriodaphnia dubia*, pp. 814-817. In K.J. Hatcher (ed), *Proceedings of the 2003 Georgia Water Resources Conference*, Univ. of Georgia, Athens, GA.
25. Augspurger, T, AE Keller, MC Black, WG Cope, and FJ Dwyer. 2003. Water quality guidance for protection of freshwater mussels (Unionidae) from ammonia exposure. *Environmental Toxicology and Chemistry* 22:2569-2575.
26. Conners, DE and MC Black. 2004. Evaluation of lethality and genotoxicity in the freshwater mussel *Utterbackia imbecillis* (Bivalvia: Unionidae) exposed singly and in combination to chemicals used in lawn care. *Archives of Environmental Contamination and Toxicology* 46:362-371.
27. Henry, TB, J-W Kwon, KL Armbrust, and MC Black. 2004. Acute and chronic toxicity of five selective serotonin reuptake inhibitors in *Ceriodaphnia dubia*. *Environmental Toxicology and Chemistry* 23:2229-2233.
28. Konwick, BJ, AT Fisk, AW Garrison, JK Avants and MC Black. 2005. Acute enantioselective toxicity of fipronil and its desulfanyl photoproduct to *Ceriodaphnia dubia*. *Environmental Toxicology and Chemistry* 24:2350-2355.
29. Konwick, BJ, AW Garrison, MC Black, JK Avants, and AT Fisk. 2006. Bioaccumulation, biotransformation, and metabolite formation of fipronil and chiral legacy pesticides in rainbow trout. *Environmental Science and Technology* 40:2930-2936.
30. Overmyer JP, DR Rouse, AW Garrison, JK Avants, ME DeLorenzo, KW Chung, PB Key, WA Wilson, MC Black. 2007. Toxicity of fipronil and its enantiomers to marine and freshwater non-targets. *Journal of Environmental Science and Health Part B* 42:471-480.
31. Henry, TB and MC Black. 2007. Mixture and single-substance acute toxicity of selective serotonin reuptake inhibitors in *Ceriodaphnia dubia*. *Environmental Toxicology and Chemistry* 26:1751-1755.
32. Wilson, WA, BJ Konwick, AW Garrison, JK Avants, MC Black. 2008. Enantioselective chronic toxicity of fipronil to *Ceriodaphnia dubia*. *Archives of Environmental Contamination and Toxicology* 54:36-43.
33. Henry, TB and MC Black. 2008. Acute and chronic toxicity of fluoxetine (SSRI) in western mosquitofish. *Archives of Environmental Contamination and Toxicology* 54:325-330.
34. Ziegeweid, JR, CA Jennings, DL Peterson, MC Black. 2008. Effects of salinity, temperature, and weight on the survival of juvenile shortnose sturgeon. *Transactions of the American Fisheries Society* 137:1490-1499.
35. Shoults-Wilson, WA, JT Peterson, JM Unrine, J Rickard, MC Black. 2009. The Asian clam *Corbicula fluminea* as a biomonitor of trace element contamination: Accounting for natural sources of variation using a hierarchical model. *Environmental Toxicology and Chemistry* 28:2224-2232.
36. Conners, DE, ER Rogers, KA Armbrust, J-W Kwon and MC Black. 2009. Growth and development of tadpoles (*Xenopus laevis*) exposed to selective serotonin reuptake inhibitors, fluoxetine and sertraline, throughout metamorphosis. *Environmental Toxicology and Chemistry* 28:2671-2676.
37. Ziegeweid, JR and MC Black. 2010. Hematocrit and plasma osmolality values of young-of-year shortnose sturgeon following acute exposures to combinations of salinity and temperature. *Fish Physiology and Biochemistry* 36:963-968 DOI 10.1007/s10695-009-9374-y
38. Shoults-Wilson, WA, JM Unrine, J Rickard, MC Black. 2010. Comparison of metal concentrations in *Corbicula fluminea* and *Elliptio hopetonensis* in the Altamaha River System *Environmental Toxicology and Chemistry* 29:2026-2033.
39. Black, MC, ER Roberts, SL Fuller, K Kaur, AR Martin, MY Chan, MK Crews, SA Doydora, CR Hill, VE Leviton, RM Lisk, WF Mason-Deese, MS Natrajan, H Plumber and CE Zipperer. 2011. Acute toxicity in an urban creek receiving runoff from an industrial fire. *Proceedings of the 2011 Georgia Water Resources Conference*.

40. Baird, S, A Garrison, J Jones, J Avants, R Bringolf, M Black. 2013. Enantioselective toxicity and bioaccumulation of fipronil in fathead minnows (*Pimephales promelas*) following water and sediment exposures. *Environmental Toxicology and Chemistry* 32:222-227.
41. Goolsby, E, C Mason, J Wojcik, A Jordan, MC Black. 2013. Acute and chronic effects of diphenhydramine and sertraline mixtures in *Ceriodaphnia dubia*. *Environmental Toxicology and Chemistry* 32:2866-2869
42. Shoults-Wilson, WA, L Seymour, JM Unrine, JN Wisniewski, MC Black. 2014. Investigating the archives: Improving data resolution and statistical rigor in the analysis of bivalve shells. *Environmental Science: Processes and Impacts* 16:247-255.
43. Iwanowicz, DD, MC Black, VS Blazer, H Zappia, W Bryant. 2016. Effects of urban land-use on largescale stonerollers in the Mobile River Basin, Birmingham, AL *Ecotoxicology* 25:608-621.
44. Myer, M.H., W.M. Henderson, M.C. Black. 2016. Effects of multi-walled carbon nanotubes on the bioavailability and toxicity of diphenhydramine to *Pimephales promelas* in sediment exposures. *Environmental Toxicology and Chemistry* DOI: 10.1002/etc.3561

### Books and Book Chapters

1. Henshel, DS, MC Black and MC Harrass, 1999. *Environmental Toxicology and Risk Assessment: 8th Volume, ASTM STP 1364*, American Society of Testing & Materials, W. Conshohocken, PA
2. Black, MC. 2000. Chapter 30, Collection of Body Fluids, pp.513-527, In: G.K. Ostrander, ed., *Handbook of Experimental Animals: The Laboratory Fish*, Academic Press, London.
3. Black, MC. 2000. Chapter 31, Routes of Administration for Chemical Agents, pp. 529-542, In: G.K. Ostrander, ed., *Handbook of Experimental Animals: The Laboratory Fish*, Academic Press, London.
4. Ankley, GT, MC Black, J Garric, TH Hutchinson and T Iguchi. 2005. A framework for assessing the hazard of pharmaceutical materials to aquatic species, in R. Williams (ed), *Human Pharmaceuticals: Assessing the Impact on Aquatic Ecosystems*. SETAC Press, Pensacola, FL

### Invited Presentations since 2005 (presenter in bold; oral presentation unless indicated otherwise)

1. **Black, MC**, LP Naeher, **M Aguilar-Villalobos**. Aspectos de contaminación ambiental en la minería. Public Meeting, Cajamarca, Peru (translated into Spanish by M. Aguilar-Villalobos) March 2005.
2. Black, MC and MA Smith. The Do's and Don'ts of Negotiating Job Contracts for Women in Sciences, Ecology Brown Bag Seminar, April 2005
3. **Black, MC**, ED Rogers, TB Henry. Endocrine effects of selective serotonin reuptake inhibitors (SSRIs) on aquatic organisms. U.S. Environmental Protection Agency Workshop on Pharmaceuticals in the Environment, Las Vegas, NV, August 2005
4. **Black, MC**, GT Ankley, J Garric, TH Hutchinson, T Iguchi. Overview of framework for assessing the hazards of pharmaceuticals in the environment from Pellston Conference, U.S. Environmental Protection Agency Workshop on Pharmaceuticals in the Environment, Las Vegas, NV, Aug. 2005
5. **Black, MC**. Endocrine disruption in aquatic organisms exposed to fluoxetine (Prozac®), 2006 R&D Seminar Series of the Metropolitan Water Reclamation District of Greater Chicago, Stickney Water Reclamation Plant, Cicero, IL, Jan 27, 2006
6. **Black, MC**. Endocrine disruption in aquatic organisms exposed to fluoxetine (Prozac®), Dept. of Wildlife Ecology, University of Wisconsin, Feb. 20, 2006
7. **Black, MC**. Toxic effects of selective serotonin reuptake inhibitors (SSRIs) on aquatic organisms, Webcast on Pharmaceuticals and Personal Care Products in the Environment, US EPA National Regional Science Council PPCPs Cross Regional Team, Oct. 24, 2006
8. **Overmyer, JP, WA Wilson**, AW Garrison, MC Black. Acute and chronic effects of fipronil and its enantiomers to aquatic organisms, Society of Environmental Toxicology and Chemistry (SETAC), 27<sup>th</sup> Annual Meeting, Montreal, Quebec, Canada, Nov. 6, 2006.
9. **Baird, SE**, AW Garrison, J Avants, MC Black. Acute and chronic enantioselective toxicity of fipronil to the fathead minnow (*Pimephales promelas*), SETAC-North America, 30<sup>th</sup> Annual Meeting, Nov. 23, 2009.

10. **Black, MC.** Ecotoxicity of selective serotonin reuptake inhibitors (SSRIs) in aquatic organisms Brady Lecture, Invited by the Dept. of Entomology, Nov 30, 2009
11. **Black, MC.** Pharmaceuticals in surface waters: Are fish on our drugs? GA River Network Conference, Jekyll Island, GA, Feb 20, 2010
12. **Black, MC.** Pharmaceuticals in surface waters: Are fish on our drugs? GA Adopt-a-Stream Confluence, Stone Mountain, GA, Feb. 27, 2010
13. **Black, MC,** S Baird, J Avants, AW Garrison Differential toxicity and accumulation of fipronil enantiomers in the fathead minnow (*Pimephales promelas*). SETAC Asia/Pacific. Society of Environmental Toxicology and Chemistry, Guangzhou, China, June 7, 2010.
14. **Huang, Q** and MC Black. Environmental Behaviors of Nanomaterials, US EPA Nanotechnology Grantees Meeting, Portland, OR. November 8, 2010.
15. **Roberts ER,** MC Black, ME DeLorenzo. 2012. Bioaccumulation and maturation delay in an estuarine crustacean, *Americamysis bahia*, following chronic exposure to multi-walled carbon nanotubes. Gordon Research Conference: Oceans and Human Health, June 2012 (*poster*)
16. **Roberts ER** and MC Black. 2012. Comparison of multi-walled carbon nanotube chronic toxicity and bioaccumulation in two crustaceans: freshwater and estuarine. Gordon Research Seminar: Oceans and Human Health, June 2012.
17. **Black, MC.** Emerging aquatic contaminants: Really a threat or just a phase? Environmental Toxicology Seminar Series, Clemson University, Clemson, SC, October 2, 2012.
18. **Huang, Q,** L Zhang, MC Black, ER Roberts, Z Pan. Environmental behaviors of solubilized carbon nanotubes in aquatic systems: transformation, sorption and toxicity exposure. SETAC-North America 33rd Annual Meeting. Long Beach, CA. November 2012
19. **Black, MC.** Pharmaceuticals in coastal waters, 2014 Confluence, GA Department of Natural Resources, March 22, 2014
20. **Black, MC.** Pharmaceuticals in coastal environments: Oysters as biomonitors of septic tank pollution. Gordon Research Conference: Oceans & Human Health, Biddeford, ME, June 3, 2014
21. **Brew, DW** and MC Black. Validation of eastern oysters as biomonitors of pharmaceutical pollution in the Georgia estuarine environment. 2014 Gordon Research Conference: Oceans & Human Health, Biddeford, ME, June 1-6, 2014 (*poster*)
22. **Black, M.** Oyster Spat Sticks to Improve Coastal Water Quality. Georgia Coastal Research Council, 2015 Conference, Brunswick, GA, March 17, 2015
23. **Black, M.** & Miles, T. 2015. Evidence for unintended exposure to pharmaceuticals. CDC, Agency for Toxic and Disease Registry (ATSDR), Webinar, August 2015 (*oral presentation*)
24. **Black, MC,** ME Hamilton and MH Myer. 2015. Multi-walled carbon nanotubes alter toxicities of diphenhydramine and diclofenac in exposures with sediment and natural organic matter. SETAC-North America 36<sup>th</sup> Annual Meeting, Salt Lake City, UT, November 2015 (*oral presentation*)
25. **Black, MC** 2016. You Are What You Eat: Water Pollution and Health Implications for Fish-eating Populations, 2016 CPH Global Health Symposium, October 26, 2016 (*oral presentation*)

**Peer-reviewed Abstracts for Papers presented at Regional, National or International Meetings Since 2005 (presenter in bold)**

1. **Connors, DE,** AD Rosemond, MC Black. Effects of fungicides on aquatic fungi and bacteria. North American Benthological Society 2005 National Meeting, May 2005 (poster)
2. **Black, MC,** ED Rogers, TB Henry. Endocrine effects of selective serotonin reuptake inhibitors (SSRIs) on aquatic organisms. U.S. Environmental Protection Agency Workshop on Pharmaceuticals in the Environment, Las Vegas, NV, August 2005 (*oral presentation*).
3. **Black, MC,** GT Ankley, J Garric, TH Hutchinson, T Iguchi. Overview of framework for assessing the hazards of pharmaceuticals in the environment from Pellston Conference, U.S. Environmental Protection Agency Workshop on Pharmaceuticals in the Environment, Las Vegas, NV, Aug. 2005 (*oral presentation*)
4. **Rogers, ED,** JC Maerz, AK Davis, MC Black. Effect of predator cues on native tadpoles (*Hyla Chrysoscelis*) exposed to fluoxetine (Prozac<sup>®</sup>). SETAC 26<sup>th</sup> Annual Meeting, Baltimore, MD, USA,

- November 2005 (*oral presentation*).
5. **Wilson, WA**, BJ Konwick, WA Garrison, MC Black. Enantioselective chronic toxicity of fipronil to *Ceriodaphnia dubia*. SETAC 26<sup>th</sup> Annual Meeting, Baltimore, MD, USA, November 2005 (*poster*).
  6. **Conners, DE**, AD Rosemond, MC Black. Effects of fungicides on aquatic microorganisms and leaf litter breakdown. SETAC 26<sup>th</sup> Annual Meeting, Baltimore, MD, USA, November 2005 (*poster*).
  7. **Overmyer, J**, AW Garrison, J Avants, M DeLorenzo, P Key, K Chung, B Konwick, WA Wilson, M Black. Acute toxicity of fopronil and its enantiomers to marine and freshwater nontargets. SETAC 26<sup>th</sup> Annual Meeting, Baltimore, MD, USA, November 2005 (*poster*).
  8. **Overmyer, JP, WA Wilson**, AW Garrison, MC Black. Acute and chronic effects of fipronil and its enantiomers to aquatic organisms, Society of Environmental Toxicology and Chemistry (SETAC), 27<sup>th</sup> Annual Meeting, Montreal, Quebec, Canada, Nov. 6, 2006 (*poster discussion*)
  9. **Black, MC**. Toxic effects of selective serotonin reuptake inhibitors (SSRIs) on aquatic organisms, Webcast on Pharmaceuticals and Personal Care Products in the Environment, US EPA National Regional Science Council PPCPs Cross Regional Team, Oct. 24, 2006 (*presentation*)
  10. **Wilson, WA**, J Unrine, MC Black. Bioaccumulation of trace elements by *Corbicula fluminea* and *Elliptio hopetonensis* in the Altamaha River system. SETAC North America 28<sup>th</sup> Annual Meeting, November 15, 2007, Milwaukee, WI (*poster*)
  11. **Tran, YH**, MC Black. Comparison of acute toxicity of selective serotonin reuptake inhibitors (SSRIs) and St. John's wort (*Hypericum perforatum*) to *Ceriodaphnia dubia*. Peach State Louis Stokes Alliance for Minority Participation, 2<sup>nd</sup> Annual Fall Research Conference, Athens, GA, Sept. 22, 2007, Won 1<sup>st</sup> Place in poster competition (*poster*)
  12. **Wilson, WA**, J Unrine, MC Black. Bioaccumulation of trace elements by *Corbicula fluminea* and *Elliptio hopetonensis* in the Altamaha River system. SETAC North America 28<sup>th</sup> Annual Meeting, November 15, 2007, Milwaukee, WI (*poster*)
  13. **Wilson, WA**, J Unrine, MC Black. Spatial and temporal trends in trace element bioaccumulation by bivalves in the Altamaha River system. SETAC-North America, 29<sup>th</sup> Annual Meeting, Tampa, FL Nov. 17, 2008 (*poster*)
  14. **Black, MC**, DE Conners. ED Rogers, J-W Kwon, K Armbrust. Effects of Fluoxetine and Sertraline on Growth and Development of the African Clawed Frog (*Xenopus laevis*), SETAC-North America, 30<sup>th</sup> Annual Meeting, Nov 21, 2009 (*oral presentation*)
  15. **Baird, SE**, AW Garrison, J Avants, MC Black. Acute and chronic enantioselective toxicity of fipronil to the fathead minnow (*Pimephales promelas*), SETAC-North America, 30<sup>th</sup> Annual Meeting, Nov 23, 2009. (*oral presentation*)
  16. **Black, MC**, S Baird, J Avants, AW Garrison Differential toxicity and accumulation of fipronil enantiomers in the fathead minnow (*Pimephales promelas*). SETAC Asia/Pacific. Society of Environmental Toxicology and Chemistry, Guangzhou, China, June 7, 2010 (*oral presentation*)
  17. **Roberts, ER** and MC Black. Accumulation and reproductive effects in *Ceriodaphnia dubia* following chronic exposure to multi-walled carbon nanotubes. SETAC-North America 31st Annual Meeting., Portland, OR, November 10, 2010. (*oral presentation*)
  18. **Black, MC**, ER Roberts, SL Fuller, K Kaur, AR Martin, MY Chan, MK Crews, SA Doydora, CR Hill, VE Leviton, RM Lisk, WF Mason-Deese, MS Natrajan, H Plumber and CE Zipperer. 2011. Acute toxicity in an urban creek receiving runoff from an industrial fire. 2011 Georgia Water Resources Conference, April 13, 2011, (*oral presentation*).
  19. **Huang, Q** and MC Black. Environmental Behaviors of Nanomaterials, US EPA Nanotechnology Grantees Meeting, Portland, OR. November 8, 2010 (*oral presentation*)
  20. McReynolds, ER, **MC Black**. Comparison of multi-walled carbon nanotube chronic toxicity and bioaccumulation in two crustaceans: freshwater versus estuarine. SETAC-North America 33rd Annual Meeting. Long Beach, CA. November 2012 (*poster*)
  21. **McReynolds, ER** and MC Black. Exposure to carbon nanotube contaminated sediment increases morbidity in juvenile fathead minnow (*Pimephales promelas*), SETAC-North America 34<sup>th</sup> Annual Meeting, Nashville, TN, November 2013 (*oral presentation*)

22. **Tseng, Chi-Yen** and MC Black. Effects of hydroxylated fullerenes and silver nanoparticles on nearly life stages of the fathead minnow, *Pimephales promelas*. SETAC-North America 34<sup>th</sup> Annual Meeting, Nashville, TN, November 2013 (*poster*)
23. **Myer, MH** and Black, MC. Multi-walled carbon nanotubes reduce toxicity of diphenhydramine to *Ceriodaphnia dubia* in water and sediment exposures. SETAC-North America 35<sup>th</sup> Annual Meeting, Vancouver, BC, Canada, November 2014 (*oral presentation*)
24. **Brew, DW** and MC Black. Validation of eastern oysters as biomonitors of pharmaceutical pollution in the Georgia estuarine environment. SETAC-North America 35<sup>th</sup> Annual Meeting, Vancouver, BC, Canada, November 2014 (*poster*)
25. **Black, MC** and SL Fuller. Oysters grown on spatsticks as biomonitors of pharmaceuticals from septic tank contamination of tidal creeks. SETAC-North America 35<sup>th</sup> Annual Meeting, Vancouver, BC, Canada, November 2014 (*oral presentation*)
26. **Brew, D.,** Henderson, M., & Black, M. (2015). Biomonitoring of contaminants of emerging concern using wild eastern oysters (*Crassostrea virginica*) in Georgia. SETAC-North America 36<sup>th</sup> Annual Meeting, Salt Lake City, UT, November 2015 (*oral presentation*)
27. Brew, DW, WM Henderson, MC Black. Untargeted metabolomics investigation of the eastern oyster (*Crassostrea virginica*) exposed to pharmaceuticals and personal care products. 7<sup>th</sup> SETAC World Congress, SETAC-NA 37<sup>th</sup> Annual Meeting, Orlando, FL, November 2016 (*poster*)

#### **Grants and Contracts—Funded (since 2000)**

1. Evaluation of fish health and reproductive biomarkers in small fish species along a gradient of urban use, US Geological Survey, Biological Research (2000-2002) \$60,000, Co-PI.
2. The impact of lawn care practices on aquatic ecosystems in suburban watersheds, EPA/USDA/NSF Partnership For Environmental Research, Water And Watersheds Research Program, (2000-2003) \$893,849, Co-PI.
3. Cooperative Monitoring of the Tisza River, Hungarian Ministry Of Education and US-Hungarian Science And Technology Joint Fund, (2001 – 2002), \$2,400, PI
4. The Keystone Role of Heterotrophic Microbes in Driving Ecosystem-level Effects of Nutrient Enrichment, (2003-2007), National Science Foundation (NSF), \$556,924. Co-PI
5. The environmental occurrence, fate and ecotoxicity of selective serotonin reuptake inhibitors in aquatic environments, (2001 – 2004), US Environmental Protection Agency, \$522,892, PI.
6. Effect of riparian zone on *Tubifex tubifex* populations and whirling disease, US Geological Survey, 2006, \$8767, PI.
7. Establishing a Citizen-Based Water Quality Monitoring Program in Vietnam: A Service Learning Exercise for EHSC 4400/6400 Students. UGA Office of the Vice President for Public Service and Outreach IDEAS Grant, (2005-2006), \$5000, PI
8. Trace metals in the context of a river continuum: Assessing temporal and spatial patterns in bivalves in the Altamaha River, GA. US Dept of the Interior (9/01/2006-3/1/2008), \$20,000. PI
9. Monitoring potential wastewater components for acute and chronic toxicity using the freshwater microcrustacean, *Ceriodaphnia dubia*, CIBA Vision Corporation (11/06-6/07), \$4950. P
10. Small Equipment Grant, Competitive funding from the UGA Interdisciplinary Toxicology Program, University of Georgia. 2006, \$5748, PI
11. Small Equipment Grant, Awarded 2/2007, Competitive funding from the Interdisciplinary Toxicology Program, University of GA, \$2298, PI
12. Georgia Oceans and Health Initiative (GOHI) Graduate Training Consortium, Awarded 12/07, NOAA Oceans and Human Health Initiative, (2007-2010), \$518,196 (Training grant), Co-PI
13. Environmental behaviors of solubilized carbon nanotubes in aquatic systems: transformation, sorption and toxicity exposure. USEPA STAR, (2008-2011), \$383,375 (\$183,227 to MB), Co-PI.
14. Oyster Spat Sticks to Improve Coastal Water Quality, Sea Grant, US Dept. of Commerce (2010-2014), \$129,919, PI
15. Validation of oysters as biomonitors of pharmaceutical pollution in Georgia, Georgia Water Resources Institute, US Geological Survey (3/14-2/16), \$18,000, PI

### Grants and Contracts -- Submitted (pending review)

1. Evaluation of Human Exposure and Health Risks from a Toxic Effluent Spill in Ha Tinh, Vietnam, National Institutes of Health, R-21, NIEHS Rapid Funding Mechanism, \$185,692 (PI of UGA subcontract); Tham Hoang (PI, Loyola University) *Submitted October 3, 2016.*
2. Graphene nanomaterials as modifiers of uptake and adverse effects of environmental pollutants, National Science Foundation, \$299,668 (PI); Robert B. Bringolf, (Co-PI) *Submitted October 20, 2016.*

### Instruction

*Courses Developed/Taught since 2005 (3 h lecture or lab courses):*

- EHSC 4610/6610 Water Pollution (3 h, 100% effort), (Fall Semester 2006; 2007, 2008, 2009, 2010, 2011, 2012, 2013)
- EHSC 4400/6400 Environmental Issues in the Developing World (3 h, 100% effort) (Spring Semesters 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016; Fall 2013; Summer II 2014; Maymester 2015)
- EHSC 4490 Environmental Toxicology (3 h, 20% effort), Fall 2016
- EHSC 8010 Advanced Topics in Environmental Health Science (3 h, 25% effort, Fall 2013; 3 h, 15% effort, Fall 2015)
- EHSC 8610: Aquatic Toxicology (3 h, 100% effort), (Spring 2007; Fall 2014)
- EHSC 8610: Aquatic Toxicology (3 h, 100% effort), (Spring 2010) - *NOTE: New offering—Course redesigned as a lab-based course*
- EHSC 4900: Global Environmental and Public Health Issues (100% effort, Summer 2015, Costa Rica; Summer 2016 Croatia)
- EHSC 7410 Global Environmental Health: Focus on Developing Countries (100% effort; Spring 2016) *New offering*
- EHSC 7650 Water Quality: Protection, Monitoring and Management for Health (100% effort, Fall 2016) *New offering*
- EHSC 7900: Integrative Global Environmental and Public Health (100% effort, Summer 2015 Costa Rica; Summer 2016, Croatia)

*Maymester Courses Taught:*

- EHSC 4400 Environmental Issues in the Developing World, Focus on Vietnam (3 h, 100% effort) (Maymester Study Abroad in Vietnam, 2006)

*Seminars Taught (1 h, all 100% effort)*

- EHSC 6010 EHS Proseminar (Spring 2008)
- EHSC 8100 Current Topics in EHS – Aquatic Toxicology (Fall 2007; Spring 2009)
- EHSC 3700 Special Problems in EHS (Every semester, 1-5 undergraduate students)
- BIOL 4960 Directed Research (Spring 2007, Spring 2008, Fall 2008)
- PBHL 7800 Capstone in Public Health (Spring 2012, 2013, 2014; Fall 2013)
- EHSC 8800 (Summer 2009; Fall 2010, Fall 2014)
- FYOS 1001 First Year Odyssey Seminar (Fall 2011, 2012, 2013, 2014, 2015, 2016)

*Guest Lectures (1 lecture per semester, unless noted otherwise)*

- FORS 1150 (FA 2009, 2010, 2011)
- EHSC 3060 (3 lectures, SP 2007)
- EHSC 2020 (FA/SP 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015)
- PBHL 3100 (2007, FA 2009, FA/SP 2012)
- HPRB 4480 (FA 2014)
- PHRM 6910 (FA 2007, 2008, 2009, 2011, 2012)



- EHSC 7060 (FA 2008, FA/SP 2009)
- EHSC 8930 (SP 2008, 2010)
- EHSC 7010 (FA/SP 2010, FA/SP 2011, SP 2012, SP 2013, SP 2014)
- EHSC 8410 (2 lectures, FA 2010)
- HPRB 7480 (SP 1012)
- GLOB 3100 (FA 2012)
- HONS 3070 (SP 2013)

## **Mentoring**

### ***Postdocs Mentored***

- Theodore B. Henry, 2000-2003
- Deanna E. Conners, 2006-2008

## **Major Professor –Masters (Thesis Advisor), MPH (Capstone Advisor) and Doctoral Students (Dissertation Advisor)**

(actual or expected\* date of graduation)

- Larry King Martin (MS Zoology, Oklahoma State University, 1995)
- Stacy M. Westerfield (MS Environmental Health Science, 1996)
- Kelley VanVreede (MS Toxicology, 1997)
- John I. Belin (MS Environmental Health Science, 1998)
- Apaporn Chatasutabutr (MS Environmental Health Science, 1999)
- Deanna Conners (PhD Toxicology, 2004)
- Brad Konwick (MS Toxicology, 2005)
- Emily Rogers (MS Toxicology 2005)
- Deborah Cartwright Iwanowicz (PhD Toxicology, 2007)
- Miles Buzbee, (MPH-EHS, 2007)
- W. Aaron Shouts-Wilson (PhD Toxicology, 2008)
- Suzanne Baird (MS Toxicology, 2009)
- Aarti Sanglikar (MPH-EHS, 2009)
- Kamalpreet Kaur (MPH-EHS 2011)
- Scarlett Fuller (MS Environmental Health Science, 2012)
- Renee Perro (MPH-EHS, 2012)
- Emily Roberts (PhD Toxicology, 2013)
- Chi-Yen Tseng (MS Toxicology, 2013)
- Lauren Crawley (MPH, 2014)
- Erin Gymburch (MPH 2014)
- Clancey Hill (MPH 2014)
- Fauzan Rofiq (MPH 2015)
- Rosemary Pearson-Clarke (MPH 2015)
- Mark Myer (MS Environmental Health Science, 2015)
- David Brew (PhD Environmental Health Science, 2017\*)
- Donna Glinski (PhD, Toxicology, 2017\*)
- Molly Smith (MPH 2017\*)

**Service as a Committee Member since 2005** (actual or expected date\* of graduation)

- Jeffrey Ziegweide (MS Forest Resources 2006)
- B. James Williams (MS Ecology 2006)
- Molly Viser (MS Toxicology, 2006)
- Carol Flaute (MS, Ecology, 2007)
- Glenn Tillman (MS Toxicology, 2007)

- Julie Wilson (MS Forest Resources 2008)
- Jennifer Gentry (MS EH, 2008)
- Beth Mote (MS EH, 2009)
- Suyang Liu (MS Toxicology, 2010)
- Sarah Begayni (MS Entomology, 2010)
- Kenneth Goodman (PhD Anthropology, 2007\* (never finished)
- Eva McLanahan (PhD Toxicology 2007)
- Elizabeth Irvin (PhD Toxicology, 2008)
- Susan Ritger (PhD Toxicology 2009)
- Carrie Futch (PhD Ecology, 2010)
- Adam Martin (MNR, 2010)
- Monica Griffin (MS EH, 2012)
- Mary Katherine Crews (MS EH 2012)
- Peter Hazelton (PhD Toxicology, 2013)
- Kristen Kellock (PhD Toxicology, 2013)
- Joseph Iberg (PhD Toxicology, 2014)
- Eric Goolsby (PhD Toxicology, 2016)
- Kabiru Sunmola (MS EH, 2016)
- Glenn Ballard (MS EH, 2016)
- Philipp Nussbaum, MS Conservation Ecology, 2017\*)
- Keri Lydon (PhD, EHS, 2017\*)
- Matt Urich (PhD Toxicology, 2017\*)
- Adrian Parr (PhD Toxicology, 2017\*)
- Kirill Chernoff (MNR, 2018\*)

#### **Undergraduates Mentored in my Lab (since 2007)**

- Marina Dos Santos (SU 2015)
- Jackson Rodgers (SU 2015, FA 2015, SP 2016); CURO Fellow
- Lyly Tang (Special Problems, SU 2014; SP 2015)
- Amelia Watson (Volunteer, FA 2014; SP 2015)
- Ava Wilson (Special Problems, SP, FA 2014, Volunteer SP 2015)
- Madison Hamilton (Special Problems, SP, SU, FA 2014, SP 2015; SU 2015); CURO Fellow
- Lauren Brockman (Special Problems, SP 2014)
- Rosemary Pearson-Clarke (Special Problems, SP, FA 2014, Volunteer, SP 2015)
- Sam Wilson (EHS Internship, FA 2013)
- Christen Holbrook (Special Problems FA 2013)
- Osii Mbata (Volunteer, FA 2013; Special Problems SP 2014; EHS Internship SP 2014)
- Irfan Jahangiri (Special Problems FA 2013, SP 2014; SU 2014; Volunteer FA 2015)
- Arielle Charles (Volunteer SP 2013)
- Damion Martell (Special Problems SP 2013)
- Avery Stonestreet (Special Problems SP 2013, SU 2013, FA 2013)
- Michael VanBuren (Special Problems SP 2013, FA 2013)
- Jamie Patel (Special Problems SU, FA 2012)
- Mark Myer (Special Problems SU, FA 2012)
- Kate Klein (Special Problems SU 2012)
- Eric Goolsby (EHS Internship, Special Problems, Volunteer, SP 2011-SU12)
- James Wojcik (EHS Internship, SP 2012)
- Mark Burkhead (EHS Internship, SU 2011)
- Alex Jordan (SP 2011- SP 2012; EHS Internship, Special Problems)

- Ngan Nguyen (Special Problems, SP 2011)
- Carrie Bornholm (Special Problems, SP 2011)
- Chris Scherer (Special Problems, FA 2011- SP 2011; FA 2011)
- Markus Scherer (Special Problems, SP 2011; FA 2011; SP 2012)
- Sydney Swain (Special Problems, SP 2011; FA 2011)
- Adam Cannon (Special Problems, SP 2010)
- Will Mimbs (Special Problems, FA 2010)
- Abby Boorstin (Special Problems, SP 2010)
- Alex Olney (BIOL 4960, SU 2010)
- Clancey Hill (Special Problems, SU 2010- SP 2010)
- Caitlin Smith (Special Problems, FA 2009 - SP 2010)
- Mandy Nisanian (Special Problems, FA 2009)
- Jon Croy (Special Problems, FA 2009 - SU 2010)
- Jin (Lisa) Choi (Special Problems, SU 2009)
- Britt Cantrell (Special Problems, SP 2009)
- Sarah Dulson (Special Problems, SP 2009)
- Gayle Lennox (Special Problems, SP 2009)
- Summer Blackwell (Special Problems, FA 2008 - SP 2009)
- Erin Hutto (Special Problems, SU 2008)
- Yen Tran (PSLSA Scholar, SP 2008 – SP 2009)
- Fletcher Hodges (Special Problems, SU 2007)

#### **Undergraduate/MPH Student Advisement (since 2005)**

- **2005:** 12 undergraduates
- **2006:** None (study leave for 7 mo)
- **2007:** 12 undergraduates
- **2008:** 8 undergraduates; 12 MPH
- **2009:** 1 undergraduate; 15 MPH
- **2010:** 20 MPH
- **2011:** 13 MPH
- **2012:** 11 MPH
- **2013:** 15 MPH
- **2014:** 19 MPH; 2 pre-BS/MPH
- **2015:** 8 MPH; 3 BS/MPH; 1 PharmD/MPH; 3 pre-BS/MPH
- **2016:** 1 MPH; 7 BS/MPH; 1 PharmD/MPH; 4 pre dual degree/MPH (1 DVM; 3 BSEH)

#### **Honors/Awards Received by my Undergraduate and Graduate Student(s)**

- Brad Konwick, US EPA NMMES Fellowship (2004-2005)
- Yen Tran (Undergraduate Researcher): First Place, Poster Competition, Peach State Louis Stokes Alliance for Minority Participation, 2<sup>nd</sup> Annual Fall Research Conference (Sept 2007)
- W. Aaron Wilson, First Place, Toxicology Retreat Poster Competition (March 2006)
- W. Aaron Wilson, Presidential Fellowship (2004-2008); PhD Toxicology Stipend (2006-08)
- Emily Rogers, MS Toxicology Stipend (2003-2005)
- Suzanne Baird, MS Toxicology Stipend (2007-2008),
- Emily Rogers, Finalist EPA Star Fellowship (June 2005)
- W. Aaron Wilson, Finalist EPA Star Fellowship (June 2006)
- Emily Roberts McReynolds, PhD Toxicology Stipend, (2009-2013)
- Emily R. McReynolds, SETAC Travel Award (November 2010)
- Emily R. McReynolds, Georgia Oceans and Health Fellowship (7/2010-6/2011)

- Emily R. McReynolds, Interdisciplinary Toxicology Program Research Grant (4/2011)
- Emily R. McReynolds, UGARF Travel Award, University of Georgia (11/2011)
- Emily R. McReynolds, 2nd Place Platform Presentation, Interdisciplinary Toxicology Program Retreat (4/2012)
- Chi-Yen Tseng, MS Toxicology Stipend (2012-13)
- Eric Goolsby, National Science Foundation Graduate Fellowship (2012-2015)
- David Brew, Friends of the UGA Marine Institute Graduate Student Award, (2013-14)
- David Brew, UGA Public Service and Outreach Fellowship (2013-14)
- David Brew, Outstanding Teaching Assistant (2014)
- David Brew, Future Faculty Program, Center for Teaching and Learning, UGA (2014-15)
- David Brew, Innovative and Interdisciplinary Research Grants, UGA (2014)
- Madison Hamilton, CURO Research Award, FA 2014
- Mark Myer, SETAC Student Travel Award, November 2014
- Mark Myer, 2<sup>nd</sup> Place Platform Presentation, SETAC 35<sup>th</sup> Annual Meeting, Vancouver, BC, Canada, November 2014
- David Brew, SETAC Student Travel Award, November 2014
- David Brew, Proctor & Gamble/SETAC Fellowship (\$15,000, 2014-15)

### **Service to the Department, College and University (since 2005)**

#### **University**

- Search Committee, Associate Vice President for Human Resources (April-Sept 2005)
- University Council Representative (CAES/EHS Representative (Aug 2002- May 2005)
- Program Review and Assessment Committee (PRAC) (2006-08).
- University Council Strategic Planning Committee (2006-09).
- University Library Committee (2005-08).
- Program Review and Assessment Committee (PRAC) (2006-08)
  - a. PRAC Vice Chair: 1/2007-7/2007
  - b. PRAC Chair: 8/2007-7/2008
- University Council Strategic Planning Committee (2006-09).
- UGA Strategic Plan Committee (2009-10)
- UGA Parents and Families Weekend (Oct. 2009) Organized the public health facility/research tour and presented the College of Public Health overview
- Executive Committee, Interdisciplinary Toxicology Program (2008-2012)
- Richard B. Russell Undergraduate Teaching Award, Selection Committee Member, 2010-2012
- University Council Curriculum Committee (UCC), Committee Member, August 2010 – August 2013
- Chair, Biological Sciences, Executive Committee of UCC, August 2011 – August 2013
- Chair, Social Sciences, Executive Committee of the UCC, August 2012 – August 2013
- Chair, Organizing/Program Committee, Spring Retreat 2012, Interdisciplinary Toxicology Program
- PRAC Review Committee Member, Institute on Human Development and Disability, 2012- 2013
- Research Safety and Health Review Committee, Committee Member, August 2011 - present
- Member, Environmental Literacy Subcommittee of the UCC, October 2013-December 2014
- Member, General Education Subcommittee of the UCC, January 2013- present
- Chair, Curriculum Committee, Interdisciplinary Toxicology Program, January 2013-present

#### **College of Public Health (CPH) (since 2005)**

- CPH Executive Committee (2006-2012)
- Interim Department Head, EHS Dept (2006-2008)
- Interim Assistant Dean for Academic Affairs (July 2008-August 2010)
- Assistant Dean for Undergraduate Studies (August 2010-June 2012)
- Search Committee for CPH IT Director (2008)

- CPH Awards Committee Chair (2008-09; 2010-11)
- CPH Accreditation Working Group (2008-09)
- CPH Professional Degrees Committee (2009-2010); MPH Subcommittee (2010)
- CPH New Faculty Orientation (2008) – Developer/primary presenter
- CPH Advisor Workshop (2008) -- Co-organizer/presenter
- CPH Student Orientation (2008) Presenter
- CPH Ad Hoc Committee on Public Health Minor, Committee Chair. September 2009-2012.
- CPH Administrator for the Public Health Minor (2010-2012).
- Third Year Review Committee for Dr. Kersten Gerst Emerson (November 2012-May 2013)
- Search Committee Member, Assistant Professor, Health Promotion and Behavior, March- July 2013
- CPH Global Health Faculty (2011-present)
- CPH Diversity Committee (September 2016-present)
- CPH Academic and Curriculum Committee, Committee Member (September 2016-present)
- CPH Chair, CPH MPH Educational Committee (2012-2013; 2016-present)
- CPH Curriculum and Academic Programs Committee (2008-2013; 2016-present)

#### **Department (since 2005)**

- Interim Department Head, July 2006-Aug. 2008
- Undergraduate Coordinator, 2001-2008
- Graduate Coordinator, 2008-2009
- Primary author for EHAC Accreditation Self Study Document, UGA Environmental Health Science Undergraduate Degree Program. Submitted, Jan. 2005; Reaccreditation by EHAC approved by unanimous vote, June 2005
- Primary author of EHS Department Self Study, UGA Program Review and Assessment (2005)
- Search Committee, EHS Instructor position (2006-2007)
- Chair, Search Committee, EHS Office/Business Manager (2007)
- Search Committee, EHS Department Head position (2007- failed search; *de facto* Chair, 2008)
- EHS Bylaws Committee (2012-present)
- Chair, Search Committee, Assistant Professor, Environmental Health Science (3/2013- 7/2013)
- EHS Undergraduate Awards Committee (2012-present)
- Third Year Review Committee for Xiaozhong Yu (January 2015)
- Third Year Review Committee for Anne Marie Zimeri (May 2016)

#### **Misc. Professional Service (Since 2005)**

- Referee for the following journals:  
*Aquatic Toxicology, Archives of Environmental Contamination and Toxicology, Chemosphere, Ecotoxicology, Ecotoxicology and Environmental Safety, Environmental Science and Technology, Environmental Health Perspectives, Environmental Pollution, Environmental Toxicology and Chemistry, Environmental Toxicology, Ecotoxicology, Ecotoxicology and Environmental Safety, Integrated Environmental Assessment and Management, Journal of Environmental Quality, Journal of Food Quality, Journal of Hazardous Materials, Journal of Toxicology and Environmental Health, Journal of Water, Air and Soil Pollution, Pesticide Biochemistry and Physiology, Science of the Total Environment*
- Nominations Committee, Association of Environmental Health Academic Programs (AEHAP), 2005
- Awards Committee Member, US EPA Science Achievement Award in Biological Sciences, 2005
- Judge for Graduate Poster Competition, Academy of the Environment Symposium, Athens, GA (Oct. 23-24, 2006)
- Judge, student poster competition, SETAC-North America 28<sup>th</sup> Annual Meeting, Milwaukee, WI (Nov. 11-15, 2007)
- Judge, student paper competition, SETAC-Asia Pacific Annual Meeting, Guangzhou, China (June

2010)

- Judge, student presentation competition, GA Water Resources Conference, April 2011
- Judge, Student Platform and Poster Awards, Interdisciplinary Toxicology Program Retreat, UGA, Athens, GA (April 2014)
- Judge, Student Poster Awards, Gordon Research Conference, Biddeford, ME (June 2014)
- Judge, Student Poster Awards, SETAC-NA Annual Meeting, Vancouver, BC, Canada (Nov. 2014)
- Judge, Student Presentation Awards, Salt Lake City, UT (Nov 2015)
- External reviewer for Promotion and Tenure, Dr. Bryan Brooks, Baylor Univ., Waco TX (2006)
- External reviewer for Promotion and Tenure, Dr. Amy Ringwood, U. North Carolina-Charlotte (2008)
- External Reviewer for Promotion, Public Service and Outreach, Mary Sweeney-Reeves, UGA Marine Extension Service (2012)
- External reviewer for Promotion and Tenure, Dr. Tham Hoang, Loyola University Chicago (2016)

#### **Misc. Outreach Activities since 2005**

Conducted applied research on Trail Creek following industrial fire (August 2010- March 2013)

- Trained undergraduate and graduate researchers in sampling and toxicity testing protocols
- Conducted periodic sampling of water and sediments
- Performed toxicity assessments of water and sediments
- Assessed remediation strategies for GA Environmental Protection Agency
- Based on toxicity test results, recommended activated charcoal, which was employed (9/2010).
- Data published in the Proceedings of the 2011 Georgia Water Resources Conference, Athens, GA; presentation on April 13, 2011.
- Continued monitoring through December 2012
- Data presented at the 2013 Georgia Water Resources Conference, Athens, GA

Designed and conducted service learning workshop on water quality monitoring in Hanoi, Vietnam (May-June 2006)

- Coordinated translation of the Georgia Adopt-a-Stream Manual into Vietnamese
- Conducted a workshop for Vietnamese students on citizen's water quality monitoring.
- Taught Vietnamese students the principles of water quality monitoring and field sampling and analysis techniques. Supervised newly trained students as they conducted water quality assessments of three urban surface waters in Hanoi, Vietnam
- Funded by an IDEAS Grant from the UGA Office of the VP for Public Service and Outreach

#### **Reviewer of grants, member of advisory panels for federal, state agencies since 2005**

- Academy of Finland Review Panel for the Research Council for Biosciences and the Environment, Academy of Finland, Helsinki, Finland, March 2-4, 2005
- National Science Foundation, Graduate Fellowship Panel, Washington DC, Feb 2006
- US EPA STAR Fellowship Panel (Toxicology), Washington DC, Feb. 14-16, 2007
- External Peer Reviewer, US Civilian Research and Development Foundation, June 2008.
- US EPA STAR Fellowship Panel (Aquatic Systems Ecology), Washington DC, Feb 2008
- US EPA STAR Fellowship Panel (Public Health Sciences), Washington DC, March 2008
- National Science Foundation, Graduate Fellowship Panel, Washington DC, March 2009
- National Science Foundation, Graduate Fellowship Panel, Washington DC, March 2010
- Oak Ridge Associated Universities, Ralph E. Powe, Jr. Faculty Enhancement Award, March 2013
- National Marine Fisheries Service, NOAA, January 2015
- External Reviewer for CDC Global Health Special Emphasis Panel/Scientific Review Group 2016/05 ZGH1 HMS (02) (March 2016)
- External Reviewer for CDC Global Health Special Emphasis Panel/Scientific Review Group 2017/01 ZGH1 HMS (02) (October 2016)

**Membership and Service to Professional Societies**

Society of Environmental Toxicology and Chemistry (SETAC) -- member since 1984

- SETAC North America Board of Directors (2000-2003)
- Co-Chair SETAC –NA Educational Committee (2001-2004)
- Editorial Board: *Environmental Toxicology and Chemistry* (1999-2002)

ASTM E-47 Committee on Biological Effects and Environmental Fate (1992-2002)

- Chair (1999-2001); Co-Chair (1996-1998) of Biomarkers Subcommittee

**Honors and Awards**

- Converse Scholar (1974)
- US Department of Energy, Laboratory Graduate Fellowship (1987-1989)
- ORAU Faculty Research Summer Fellowship (1991)
- Teaching Award of Merit, National Associate of Colleges and Teachers of Agriculture and UGA College of Agriculture and Environmental Sciences (1999)
- International Fellow, University of Georgia (2000-2001)
- Award of Appreciation, ASTM E-47 Comm. on Biological Effects and Environmental Fate (2002)
- Spirit of Environmental Health Award, Association of Environmental Health Science Academic Programs (2005)
- UGA Career Center Development Certificate (2005, 2011, 2012, 2014)
- Excellence in Service Award, College of Public Health (2013)
- Senior Teaching Fellow, UGA Center for Teaching and Learning (2013-2014)
- UGA Teaching Academy (Class of 2013)