

SUSAN BENNETT WILDE

Associate Professor
Daniel B. Warnell School of Forestry and Natural Resources
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Research Interests

- Ecological impacts of harmful algal blooms in freshwater and marine systems on fish and wildlife
- Watershed development, agricultural best management practices, and impacts on water quality
- Toxic cyanobacteria, invasive plants, reservoir limnology, and Avian Vacuolar Myelinopathy
- Interactions between invasive and endangered species

Education

Ph.D. School of Forest Resources. University of Georgia. Advective regulation of zooplankton assemblages in a reservoir series on the Savannah River, SC/GA.

M.S. Department of Zoology, University of Georgia. Heterotrophic, autotrophic, and mixotrophic flagellates in freshwater plankton: their abundance, behavior, and grazing impact on bacteria.

B.S. Ecology, Ethology and Evolution. University of Illinois. Senior Thesis: Morphological variations in clonal populations of *Daphnia pulex* in two eutrophic ponds in central Illinois.

Professional Experience

August 2016-current Associate Professor, University of Georgia
August 2010-May 2016 Assistant Professor, University of Georgia
May 2008 to July 2010 Research Assistant Professor, University of Georgia
2005- 2008 Joint Position: Research Assistant Professor, USC, Baruch Institute and Assistant Marine Scientist, SCDNR, MRRI, Charleston, SC
2001-2005 Research Assistant Professor, USC, Baruch Institute, Charleston, SC
2000-2001 Assistant Marine Scientist, SCDNR, MRRI, Charleston, SC
1998-2000 Postdoctoral Associate, Microbiology and Immunology, MUSC
1997-1998 Postdoctoral Associate, Grice Marine Laboratory, College of Charleston
1991-1996 Research Assistant, School of Forest Resources, University of Georgia
1990-1991 Research Technician III, School of Forest Resources, University of Georgia
1988-1990 Research Technician II, Biology Department, University of North Carolina

Additional Academic Affiliations

Adjunct Faculty, Master in Environmental Studies Program, University of Charleston
Adjunct Faculty, Marine Biology Graduate Program, University of Charleston
Adjunct Faculty, Department of Forestry and Natural Resources, Clemson University
Adjunct Faculty, Environmental Toxicology, Clemson University
Associate Faculty, Marine Science Department, University of South Carolina

University of Georgia Teaching experience

Outstanding Teaching Faculty Award 2010

Teaching Academy Fellow 2011-2012

Warnell Faculty Award for Outstanding Teaching 2015

FANR(MARS) 1100 Natural Resource Conservation

ECOL 8230 Lake Ecology

FANR 4500 Senior Project

WASR (ENGR/CRSS/GEOG) 4700L/6700L Soils, Hydrology, and Geology of Georgia

FISH 4650L/6650L Georgia Fishes Field Course

FISH 4200/6200 Aquatic Biology

WASR 4400 Introduction to Wetlands

Graduate student advisor*/committee member

Anna Birrenkott, MS, Environmental Toxicology, Clemson University, May 2003

Sarah Habrun*, MS, Environmental Studies, College of Charleston, December 2004

Larissa Mason*, MS, Environmental Studies, College of Charleston, December 2006

Mark Messersmith, MS, Environmental Studies, College of Charleston, May 2007

Faith Wiley, PhD, Environmental Toxicology, Clemson University, May 2007

Rebecca Smith*, PhD, Environmental Toxicology, Clemson University, May 2008

Jessica Alexander*, MS, Marine Science, University of South Carolina, May 2008

Andrew Ray, MS, Environmental Studies, College of Charleston, May 2008

Melissa Ranhofer, PhD, Marine Science, University of South Carolina, August 2009

Julie McIntire, MS, School of Ecology, University of Georgia, Dec 2009

Steven Shrivvers, MS, School of Ecology, University of Georgia, Dec 2010

Michael Hook, MS, School of Public Health, University of South Carolina, May 2011

James Herrin*, MS, School of Forestry and Natural Resources, UGA, May 2012

Shelley Robertson*, MS, School of Forestry and Natural Resources, UGA, August 2012

Brittany Trushel, MS, School of Forestry and Natural Resources, UGA, May 2013

James Mark Coram, MNR, School of Forestry and Natural Resources, UGA, May 2013

Samuel Cash, MNR, School of Forestry and Natural Resources, UGA, May 2013

Albert Mercurio, MS, School of Forestry and Natural Resources, UGA, May 2014

Jamie Morgan*, MS, School of Forestry and Natural Resources, UGA, Dec 2013

Kevin Fouts*, MS, School of Forestry and Natural Resources, UGA, May 2014

Nick Marzolf, MS, School of Ecology, University of Georgia, Dec 2015

Steven Shrivvers, PhD, School of Ecology, University of Georgia, May 2016

Garon Brandon*, MNR, School of Forestry and Natural Resources, UGA, Aug 2016

Wallace Woods*, PhD candidate, School of Forestry and Natural Resources, UGA

Brigitte Haram*, PhD candidate, School of Forestry and Natural Resources, UGA

Lindsey Moore, PhD candidate, Environmental Toxicology, Clemson University

Elizabeth Kurimo*, MS candidate, School of Forestry and Natural Resources, UGA

Tabitha Phillips*, MS candidate, School of Forestry and Natural Resources, UGA

Sam Weber*, MS candidate, Geography, UGA

Benjamin Page, MS candidate, Geography, UGA

Melissa Martin*, MS candidate, School of Forestry and Natural Resources, UGA

Cody Matteson*, MS candidate, School of Forestry and Natural Resources, UGA

Johnson Jeffers, MS candidate, School of Forestry and Natural Resources, UGA

Undergraduate Students- Research Advisor

Sophia Johnson, Clemson University, Clemson, SC

Arena Richardson, South Carolina State University, Orangeburg, SC

Ethell Vereen, Jr., Carolina State University, Orangeburg, SC

Shanna S. Chambliss, Elizabeth City State University, Elizabeth City, NC

Hope Simpson, Francis Marion University, Florence, SC
Elizabeth Moser, Warnell School of Forestry and Natural Resources, UGA, Athens, GA
Jamie Morgan, Warnell School of Forestry and Natural Resources, UGA, Athens, GA
Katherine Lackson, Odum School of Ecology, UGA, Athens, GA
Matthew Walters, Warnell School of Forestry and Natural Resources, UGA, Athens, GA
Garon Brandon, Warnell School of Forestry and Natural Resources, UGA
Tabby Phillips[§], Warnell School of Forestry and Natural Resources, UGA, Athens, GA
Malcolm Barnard, Ramsey Scholar, Odum School of Ecology, UGA, Athens, GA
Sarah Henson[§], Warnell School of Forestry and Natural Resources, UGA, Athens, GA
[§]CURO fellowship recipient

High School Students—Intern Supervisor

Sally Liu, Academic Magnet High School, Charleston, SC
Jessica Tumulo, Academic Magnet High School, Charleston, SC
Ridwan Buiyan, Clarke Central High School, Athens, GA
Faustine Sonon, Oconee County High School, Athens, GA
Theresa Vencill, Cedar Shoals High School, Athens, GA

Outreach Activities:

- *Clarke County Schools:*
 - Advise and serve as project mentor for high school students completing self-guided environmental studies and conduct high school tours.
 - Assist high school teachers in developing and building recirculating aquaculture system to educate students about fish production, system maintenance, and water quality.
- *WSFNR Recruitment Tour Participant*
 - Provide numerous tours of laboratory, explain on-going studies, encourage students to ask questions about our work and aspects of the Warnell experience.
 - We tailor these tours to the appropriate age group, from elementary school to advanced-placement high-school seniors, and often provide hands-on activities.
- *Young Dawgs and CAES Young Scholars Program Mentor*
 - Our laboratory provides high-school students with a small-scale independent study and guides the students through the entire research process from experimental design to data interpretation.
 - We expose the students to a variety of applied biology and chemistry applications by participating in daily laboratory and field activities.
- *UGA Golf Course Biomonitoring Program*
 - We worked closely with Scott Griffith, UGA Course superintendent, to develop an on-going biomonitoring program to track nutrient spikes and algal blooms in course water sources (creeks and the Oconee River) and surface ponds.
 - We will utilize the data to determine the efficacy of a pond aeration system and to identify and correct excess nutrient sources.
- *Soil, Plant, and Water Analysis Laboratory*
 - We collaborate with Leticia Sonon, UGA Extension Agricultural & Environmental Services Laboratory to screen for harmful algal species and cyanotoxins in the pond/lake samples they receive from farmers, homeowner, and lake managers with concerns about harmful algal blooms.

Professional Societies

Aquatic Plant Management Society
(Former Board member, Chair: Education and Outreach Committee)

American Society of Limnology and Oceanography
North American Lake Management Society
South Carolina Aquatic Plant Management Society
(Past-President, former board member)
Weed Science Society of America
Georgia American Fisheries Society
Georgia Lakes Society (Board member)

Publications

Dodd, Shelley R., Rebecca S. Haynie, Susan M. Williams, and Susan B. Wilde. 2016. Alternative food-chain transfer of the toxin linked to Avian Vacuolar Myelinopathy (AVM) and implications for endangered Florida snail kite, *Rosthramus sociabilis*. *Journal of Wildlife Diseases* 52:335-344.

Woods, Wallace H III., Brigette N. Haram, Susan B. Wilde and Jim Ozier. 2016. Avian Vacuolar Myelinopathy. *Wildlife Management Publication Series*. Warnell School of Forestry and Natural Resources.

Haynie, Rebecca S., Stephanie J. Christensen, Sandra Banack, Robert R. Bidigare, James A. Herrin, Susan B. Wilde. 2015. Failure to detect the neurotoxin, β -n-methylamino-L-alanine, in samples collected during an avian vacuolar myelinopathy (AVM) epornitic. ERDC/TN ANSRP-15-1. 10 pgs.

Ghosh, Shuvankar, Bradley Bartelme, Ike Sari Astuti, Elizabeth Benyshek, Danielle Haskett, Jiaying He, Benjamin Page, Susan Wilde and Deepak Mishra. 2014. Developing a Cyanobacteria Detection Tool for Georgia Inland Waters Using NASA Landsat 8 OLI Data for Water Quality Protection and Restoration. SEDAAG Conference Proceedings.

Wilde, Susan B., Jeffrey R. Johansen, H. Dayton Wilde, Peng Jiang, Bradley A. Bartelme, and Rebecca S. Haynie. 2014. *Aetokthonos hydrillicola* gen. et sp. nov.: Epiphytic cyanobacteria associated with invasive aquatic plants and implicated in bird deaths from Avian Vacuolar Myelinopathy. *Phytotaxa* 181:242-260. DOI: <http://dx.doi.org/10.11646/phytotaxa.181.5.1>

Greenfield, Dianne I., Ashley Duquette, Abby Goodson, Charles J. Keppler, Sarah H. Williams, Larissa M. Brock, Krista DeMattio, David White, and Susan B. Wilde. 2014. The effects of three chemical algaecides on mitigating levels and toxicity of the harmful cyanobacteria *Microcystis aeruginosa* and *Anabaenopsis* sp. *Environmental Management* 54:1110–1120.

Mercurio, Albert D., Sonia M. Hernandez, John C. Maerz, Michael J. Yabsley, Amanda L. Coleman, Leslie M. Shelnett, Angela E. Ellis, John R. Fischer, and Susan B. Wilde. 2014. Experimental feeding of *Hydrilla verticillata* colonized by Stigonematales cyanobacteria induces vacuolar myelinopathy in painted turtle (*Chrysemys picta*). *PloS one* 9(4), e93295.

Byers, Jeb, William G. McDowell, Shelley Robertson, Rebecca Haynie, Lauren M. Pintor, and Susan B. Wilde. 2013. Climate and pH predict the spread of the invasive apple snail (*Pomaceae insularum*) in the southeastern United States. *PloS ONE* 8(2): e56812. DOI:10.1371/journal.pone.0056812

Haynie, Rebecca S., William W. Bowerman, Sarah K. Williams, John R. Morrison, John R. Grizzle, John R. Fischer, and Susan B. Wilde. 2013. Are triploid grass carp suitable for aquatic

vegetation management in systems affected by Avian Vacuolar Myelinopathy. *Journal of Aquatic Animal Health*. 25:252–259.

Haynie, Rebecca S. Jamie Morgan, Brad Bartelme, Benjamin Willis, John H. Rodgers and Susan Wilde. 2013. Harmful algal blooms and toxin production in Georgia ponds. *Proceedings of the 2013 Georgia Water Resources Conference*, April 10–11, 2013. 6 pgs

Bryan, A. Lawrence Jr., F. Christopher Depkin, Paul H. Schoenfeld, and Susan B. Wilde. 2012. Avifauna in Maritime Forest and Shrub Habitats on Navy Submarine Base Kings Bay in Southeastern Georgia. *Georgia Ornithological Society Oriole* 77:67-80

Haram, Brigette and Susan B. Wilde. 2012. Bird brains and cyanobacteria. *North American Lake Management, LakeLines*. 32:39-41.

Wilde, Susan B., Rebecca Haynie, and Jim Ozier. 2012. C.S.I American Bald Eagle. *Forest Landowner Magazine*. 71:12-17.

Wilde, Susan B., Rebecca S. Haynie, James Herrin, Michael W. Hook, John Kupfer and Michael D. Netherland. 2012. Environmental factors influencing blooms of a neurotoxic Stigonematalan cyanobacterium responsible for Avian Vacuolar Myelinopathy. Environmental Research and Development Center. Aquatic Nuisance Species Research Program. Army COE Technical Report.

Herrin, James, Rebecca Haynie and Susan B. Wilde. 2011. Response of *Lyngbya wollei* to a combination of algaecides in the laboratory and the field. *Texas Aquatic Plant Management Society Newsletter*.

Ray, Andrew J., Gloria Seaborn, Susan B. Wilde, John W. Leffler, Alisha Lawson and Craig L. Browdy. 2010. Characterization of microbial communities in minimal-exchange, intensive aquaculture systems and the effects of suspended solids management. *Aquaculture* 310:130-138.

Wiley, Faith E., Michael J. Twiner, Tod A. Leighfield, Susan B. Wilde, Frances M. Van Dolah, John R. Fischer, and William W. Bowerman. 2009. An extract of *Hydrilla verticillata* and associated epiphytes induces avian vacuolar myelinopathy in laboratory mallards. *Environmental Toxicology* 24:362-368.

Bidigare, Robert R., Stephanie J. Christensen, Susan B. Wilde, and Sandra Anne Banack. 2009. Cyanobacteria and BMAA: Possible linkage with avian vacuolar myelinopathy (AVM) in the south-eastern United States. *Amyotrophic Lateral Sclerosis* 10:71-73.

Wilde, Susan B., Sarah K. Williams, Thomas M. Murphy, Charlotte P. Hope, Faith Wiley, Rebecca Smith, Anna Birrenkott, William W. Bowerman, and Alan J. Lewitus. 2008. Mortality of Bald Eagles and American Coots in Southeastern Reservoirs Linked to Novel Epiphytic Cyanobacterial Colonies on Invasive Aquatic Plants. *Cyanobacterial Harmful Algal Blooms: State of the Science and Research Needs*. ed H. Kenneth Hudnell. Pg 754.

Williams, Sarah K., Susan B. Wilde, Thomas M. Murphy, Charlotte P. Hope, Anna Birrenkott, and Alan J. Lewitus. 2008. Investigation of a Novel Epiphytic Cyanobacterium Associated with Reservoirs Affected by Avian Vacuolar Myelinopathy. *Cyanobacterial Harmful Algal Blooms: State of the Science and Research Needs*. ed H. Kenneth Hudnell. Pg 756.

Lewitus, Alan J., Larissa M. Brock, Marianne K. Burke, Krista A. DeMattio, and Susan B. Wilde. 2008. Lagoonal stormwater detention ponds as promoters of harmful algal blooms and eutrophication along the South Carolina coast. *Harmful Algae* 8:60-65.

Kempton, Jason, Charles J. Keppler, Alan Lewitus, Andrew Shuler, and Susan Wilde. 2008. A Novel *Heterosigma akashiwo* (Raphidophyceae) Bloom Extending from a South Carolina Bay to Offshore Waters. *Harmful Algae* 7:235-240.

Liu, Jiqing, Alan J. Lewitus, Patrick J.P. Brown, and Susan B. Wilde. 2008. Growth-promoting effects of a bacterium on three raphidophytes and three other phytoplankton. *Harmful Algae* 7:1-10.

Liu, Jiqing, Alan Lewitus, Jason Kempton and Susan B. Wilde. 2008. The Association of Algicidal Bacteria and Raphidophyte Blooms in South Carolina Brackish Detention Ponds. *Harmful Algae* 7:184-193.

Wiley, Faith E., Susan B. Wilde, Anna H. Birrenkott, Sarah H. Williams, Thomas M. Murphy, Charlotte P. Hope, and William W. Bowerman. 2007. Investigation of the link between avian vacuolar myelinopathy and a novel species of cyanobacteria through laboratory feeding trials. *Journal of Wildlife Diseases* 43:337-344.

Williams, Sarah K., Jason Kempton, Susan B. Wilde, and Alan J. Lewitus. 2007. A novel epiphytic cyanobacterium associated with reservoirs affected by Avian Vacuolar Myelinopathy. *Harmful Algae* 6:343-353.

Wilde, Susan B., Tom M. Murphy, Charlotte P. Hope, Sarah K. Habrun, Jason Kempton, Anna Birrenkott, Faith Wiley, William W. Bowerman, and Alan J. Lewitus. 2005. Avian Vacuolar Myelinopathy (AVM) Linked to Exotic Aquatic Plants and a Novel Cyanobacterial Species. *Environmental Toxicology* 20:348-353.

Wenner, Elizabeth, David M. Knott, Charles A. Barans, Susan B. Wilde, Jack O. Blanton and Julie Amft. 2005. Key factors influencing transport of white shrimp (*Litopenaeus setiferus*) post-larvae into the Ossabaw Sound system, Georgia, USA. *Fisheries and Oceanography*. 14:175-194.

Birrenkott, Anna, Susan B. Wilde, John J. Hains, John Fischer, Tom Murphy, Charlotte Hope, Pam Parnell and William Bowerman. 2004. Establishing a Food-Chain Linkage Between Aquatic Plant Material and Avian Vacuolar Myelinopathy in Mallard Ducks. *Journal of Wildlife Diseases*: 40:485-492.

Wilde, Susan B., Steve de Kozlowski, Tom Murphy. 2004. Hydrilla and Bald Eagle Deaths: What is the Link? *Aquatic Nuisance Species Digest*, Volume 5, No. 2.

Lewitus, Alan J., Ken C. Hayes, Jason W. Kempton, Larissa J. Mason, Susan B. Wilde, Barry J. Williams, and Jennifer L. Wolny. 2004. Prevalence of raphidophyte blooms in South Carolina brackish ponds associated with housing and golf courses. In: Steidinger, K.A., Landsberg, J.A., Tomas, C.R., Vargo, G.A. (Eds.), *Harmful Algae 2002*. Florida Fish and Wildlife Conservation Commission, Florida Institute of Oceanography, and the Intergovernmental Oceanographic Commission of UNESCO, St. Petersburg, FL, pp. 350–352.

Kempton, Jason W., Patrick R. Williams, Susan B. Wilde, Jennifer L. Wolny, and Alan J. Lewitus. 2004. Detection of *Kryptoperidinium foliaceum* in South Carolina Estuaries Using

Real-Time PCR Assay. In: Steidinger, K.A., Landsberg, J.A., Tomas, C.R., Vargo, G.A. (Eds.), *Harmful Algae 2002*. Florida Fish and Wildlife Conservation Commission, Florida Institute of Oceanography, and the Intergovernmental Oceanographic Commission of UNESCO, St. Petersburg, FL, pp. 350–352.

Humphries, Edythe., Howard B. Glasgow Jr., Howard Marshall, Alan J. Lewitus and Susan B. Wilde. 2004. HAB Distribution, and Associations with Environmental Parameters—Delaware Estuarine Coastal Bays, USA, 1998-2002. In: Steidinger, K.A., Landsberg, J.A., Tomas, C.R., Vargo, G.A. (Eds.), *Harmful Algae 2002*. Florida Fish and Wildlife Conservation Commission, Florida Institute of Oceanography, and the Intergovernmental Oceanographic Commission of UNESCO, St. Petersburg, FL, pp. 350–352.

Lewitus, Alan. J., Laura B. Schmidt, Lara J. Mason, Jason W. Kempton, Susan B. Wilde, Jennifer L. Wolny, Barry J. Williams, Ken C. Hayes, Sabria N. Hymel, Charles J. Keppler, and Amy H. Ringwood. 2003. Harmful Algal Blooms in South Carolina Residential and Golf Course Ponds. *Population and Environment*. 24:387-413.

Wilde, Susan B. and Craig J. Plante. 2002. Spatial heterogeneity of bacterial assemblages in marine sediments: the influence of deposit feeding by *Balanoglossus aurantiacus*. *Estuarine, Coastal and Shelf Science* 55:97-107.

Smithwick, Ashley, Susan B. Wilde, Lucille London, and Pamela J. Morris. 2001. Effects of Aerobic PCB Degradation on Immunotoxicity. pp.93-96. *PCBs: Recent Advances in Environmental Toxicology and Health Effects*.. Robertson and Hansen, eds. The University Press of Kentucky.

Plante, Craig J. and Susan B. Wilde. 2001. Bacterial recolonization of deposit-feeder egesta: in situ regrowth or immigration? *Limnology and Oceanography*. 46: 1171-1181.

Smith, Val H., and Susan J. Bennett. 1999. Nitrogen:phosphorus ratios and phytoplankton community structure in lakes. *Arch. Hydrobiol.* 146:37-53.

Bennett, Susan J., Robert W. Sanders, Karen G. Porter. 1990. Heterotrophic, autotrophic, and mixotrophic nanoflagellates: Seasonal abundances and bacterivory in a eutrophic lake. *Limnology and Oceanography* 35:1821-1832.

Robert W. Sanders, Karen G. Porter, Susan J. Bennett, and Adrienne E. DeBiase. 1989. Seasonal patterns of bacterivory by flagellates, ciliates, rotifers, and cladocerans in a freshwater planktonic community. *Limnology and Oceanography* 34:673-687.

Bennett, Susan J., Robert W. Sanders, and Karen G. Porter. 1988. Chemosensory responses of heterotrophic and mixotrophic flagellates to potential food sources. *Bulletin of Marine Science* 43: 764-771.

Recent Presentations

Susan B. Wilde, John Maerz, Sonia Hernandez, Brigitte Haram, Garon Brandon, Vanessa Kinney, and Susan Williams. Stalking an expanding disease; new locations and species at risk from Avian Vacuolar Myelinopathy (AVM). U.S. Army Corps of Engineers, Environmental Laboratory. Natural Resource Management Gateway. Invasive Species. October 15, 2015.

<http://corpslakes.usace.army.mil/employees/invasive/exchange.cfm?Option=Webinar&Type=Past&CoP=invasive&Id=274&ICS=No>

Susan B. Wilde, Brigitte Haram, Sonia Hernandez, Vanessa Kinney, and John Maerz. It's not just "for the birds" anymore; expanding locations and species at risk from Avian Vacuolar Myelinopathy (AVM). Aquatic Plant Management Society. Myrtle Beach, SC, July 12-15, 2015.

Garon Brandon, Mike Netherland, and Susan Wilde. Developing an integrated, adaptive approach to hydrilla management to reduce risk of Avian Vacuolar Myelinopathy at J. Strom Thurmond Reservoir (GA/SC). Aquatic Plant Management Society. Myrtle Beach, SC, July 12-15, 2015.

Malcolm Barnard, Alan P. Covich, James W. Porter, and Susan B. Wilde. Providing potable water from algal filtration: The frontiers of sustainability in your backyard. Ecological Society of America Annual Meeting. Baltimore, MD. August 9-14, 2015.

Susan B. Wilde, John Maerz, Sonia Hernandez, Brigitte Haram, Garon Brandon, Vanessa Kinney, and Susan Williams. New locations and species at risk from Avian Vacuolar Myelinopathy (AVM). Gulf and South Atlantic Regional Panel on Aquatic Invasive Species. Myrtle Beach, SC. October 6-7, 2015

Susan Wilde and Mike Netherland. Investigating risk and management of Avian Vacuolar Myelinopathy in Florida. FWC-IFAS Research Review for Invasive Plants in Florida, Orlando, FL. March 4-5, 2015.

John C. Maerz, Susan B. Wilde, Vanessa Kinney Terrell, Sonia M. Hernandez, Albert Mercurio, Clay Trimmer, Rebecca K. Boyd, Erin Cork, and Brigitte Haram. Amphibian and Reptile Vulnerability to Hydrilla Invasions and the Spread of Aetokthonos hydrillicola. 13th PSAC CESU Annual Meeting. Athens, GA. September 9-10, 2015.

Page, Benjamin, Susan Wilde and Deepak Mishra. 2015. Early Detection Tools for Cyanobacterial Harmful Algal Blooms in Georgia's Inland Waters. Georgia Water Resources Conference. April 28-29, 2015.

Wilde, Susan B., and Mike Netherland. Investigating risk and management of Avian Vacuolar Myelinopathy in Florida. Florida Fish and Wildlife Conservation Commission Research Review. March 4, 2015.

Wilde, Susan B. and Rebecca Haynie and Shelley Dodd. Snail Kites, Invasive Apple Snails, Hydrilla, and Avian Vacuolar Myelinopathy in Florida. North American Lake Management Society. Tampa, FL. November 12-14, 2014.

Wilde, Susan B. (invited plenary). Interdisciplinary, collaborative, multi-scale investigations; retrospective on Avian Vacuolar Myelinopathy Research from 2001-2014. South Carolina Aquatic Plant Management Society. Myrtle Beach, SC, October 8-10, 2014.

Wilde, Susan B. (invited speaker). Invasive aquatic vegetation, toxic cyanobacteria and reservoir management alternatives. Aquatic Plant Management Society. Savannah, GA, July 14-16, 2014.

Wilde, Susan B. and Rebecca Haynie. Avian Vacuolar Myelinopathy update: Hydrilla investigations, toxic cyanobacteria and management efforts to control an avian disease in southeastern reservoirs. Southeastern North American Lake Management Society, Asheville, NC March 26-28, 2014

Mercurio AD, Hernandez SM, Maerz JC, Yabsley MJ, Coleman AL, Ellis AE, Wilde SB. Experimental Trial to Induce Avian Vacuolar Myelinopathy in Painted Turtles (*Chrysemys picta*). The Wildlife Disease Association UGA Student Chapter Symposium. May 2013

Haram, Brigitte N. and Susan B. Wilde. Survey of avian species richness and abundance in a Southeastern reservoir dominated by *Hydrilla verticillata* to investigate possible impacts of Avian Vacuolar Myelinopathy. South Carolina Aquatic Plant Management Society Meeting, Myrtle Beach, SC. October 17-19, 2012

Haynie, Rebecca, Jamie Morgan, Bradley Bartelme, and Susan B. Wilde. Cyanotoxins in Georgia livestock drinking water sources. South Carolina Aquatic Plant Management Society Meeting, Myrtle Beach, SC. October 17-19, 2012.

Mercurio, Albert D., Sonia H. Hernandez, John C. Maerz, Susan B. Wilde, and Michael J. Yabsley. Characterization of turtle communities in reservoirs invaded by hydrilla (*Hydrilla verticillata*). South Carolina Aquatic Plant Management Society Meeting, Myrtle Beach, SC. October 17-19, 2012.

Haynie, Rebecca, Shelley Robertson, and Susan B. Wilde. Investigating the potential transfer of an algal neurotoxin to the endangered Florida snail kite, *Rostrhamus sociabilis*. Piedmont South Atlantic Coast CESU. Charleston, SC, October 10-12, 2012.

Jiang, Peng, H. Dayton Wilde, Bradley Bartelme and Susan B. Wilde. Genetic and morphological analysis of a toxic cyanobacterium; characterization of a new Stigonematalean species. Piedmont South Atlantic Coast CESU. Charleston, SC, October 10-12, 2012.

Wilde, Susan B., Rebecca Haynie, James Herrin, and Bob Bahn. Managing invasive aquatic plants and protecting endangered species. Piedmont South Atlantic Coast CESU. Charleston, SC, October 10-12, 2012.

Morgan, Jamie, Rebecca Haynie, Bradley Bartelme, and Susan B. Wilde. Toxic Algae in Livestock Drinking Water Sources in Georgia. Midsouth Aquatic Plant Management Society Meeting. September 17-19, 2012.

Robertson, Shelley, Rebecca Haynie, and Susan Wilde. Evidence for novel routes of exposure to the biotoxin linked to Avian Vacuolar Myelinopathy (AVM). Midsouth Aquatic Plant Management Society Meeting. Mobile, AL. September 17-19, 2012.

Vencill, Theresa, Peng Jiang, H. Dayton Wilde and Susan B. Wilde. Nutrient Effects on Culturing of Stigonematales, a Cyanobacterium Related to Avian Vacuolar Myelinopathy. Young Scholars Program Final Presentations. University of Georgia, Athens, GA. July 11-12, 2012

Haynie, Rebecca S., Robert Bahn, Deborah C. Harris, James A. Herrin, John R. Fischer and Susan B. Wilde. Nuisance Aquatic Species Control: Implications for Wild Bird Health. Aquatic Plant Management Society Annual Meeting. Salt Lake City, UT. July 22-25, 2012.

Morgan, Jamie R., James A. Herrin, Rebecca S. Haynie, Kristen Kellock, Susan B. Wilde, and Robert Bringolf. Investigating the Potential Role of Cyanobacteria in Intersex in Fish. Aquatic Plant Management Society Annual Meeting. Salt Lake City, UT. July 22-25, 2012.

Robertson, Shelley, Rebecca Haynie, and Susan Wilde. Evidence for Novel Routes of Exposure to the Biotoxin Linked to Avian Vacuolar Myelinopathy (AVM). Aquatic Plant Management Society Annual Meeting. Salt Lake City, UT. July 22-25, 2012.

Wilde, Susan B., Peng Jiang, and H. Dayton Wilde. Naming the Wilde *Stig*: Final morphological and molecular characterization of novel cyanobacterial epiphyte associated with Avian Vacuolar Myelinopathy. Aquatic Plant Management Society Annual Meeting. Salt Lake City, UT. July 22-25, 2012.

Bahn, Robert A., S. B. Wilde, R. Haynie. 2012. Large-scale aquatic vegetation removal: Fish community structure response. Proceedings of the North American Lake Management Society 21st Southeastern Lake & Watershed Management Conference. Columbus, GA., May 13-15, 2012.

Wilde, Susan B. Rebecca Haynie, James Herrin, and Bob Bahn. An assessment of invasive aquatic plant control as a management tool for Avian Vacuolar Myelinopathy. Southeastern North American Lake Management Society. Columbus, GA. May 13-15, 2012.

Haynie, Rebecca, and Susan B. Wilde. AVM and hydrilla management. AVM MEETING, US Army Corps of Engineers. J. Strom Thurmond Lake Project Office. Clarks Hill, SC. April 3, 2012.

Wilde, Susan B, Rebecca Haynie, and Shelley Robertson. Alternative pathways for toxin transfer. AVM MEETING, US Army Corps of Engineers. J. Strom Thurmond Lake Project Office. Clarks Hill, SC. April 3, 2012.

Most recent collaborators:

Dr. Alan J. Lewitus, NOAA Grants Administration, Washington, DC
Dr. William W. Bowerman and Dr. John J. Hains, Clemson University
Thomas Murphy, Charlotte Hope, and Dr. Al Segars, Wildlife and Freshwater Fisheries, SCDNR
Dr. Fran Van Dolah, NOAA, NOS Biotoxins
Dr. Robert Van Dolah, Marine Resources Research Institute, SCDNR
Dr. Craig Browdy and Dr. John Leffler, Marine Resources Research Institute, SCDNR
Dr. Erik Smith, NERRS, University of South Carolina
Dr. Rick DeVoe and Denise Sanger, South Carolina Sea Grant Consortium
Dr. Craig Plante, College of Charleston
Dr. Mike Netherland and Dr. Linda Nelson, Army COE, Environmental Research Laboratory
Dr. K.C. Das and Dr. Senthil Chinasamy, University of Georgia
Dr. J. L. Shelton, University of Georgia
Mr. Jim Ozier, Georgia Department of Natural Resources
Dr. Brett Albanese, Georgia Department of Natural Resources
Dr. Sarah Schweitzer, North Carolina Environmental Protection Division
Dr. Deepak Mishra, Geography Department, UGA
Dr. Gene Rhodes & Larry Bryan, SREL, UGA
Dr. Sonia Hernandez, Warnell School of Forestry and Natural Resources, UGA
Dr. John Maerz, Warnell School of Forestry and Natural Resources, UGA
Dr. Darold Batzer, Department of Entomology, UGA
Dr. Rhett Jackson, Warnell School of Forestry and Natural Resources, UGA

Graduate and Post-doctoral advisors

Graduate- K. G. Porter--MS and M. J. Van Den Avyle--PhD (University of Georgia)
Postdoctoral- C. Plante (College of Charleston) and P. J. Morris (Medical University of South Carolina)

Recent and Current Funding:

John C. Maerz, Susan Wilde, and Sonia M. Hernandez. Assessing Risks to Freshwater Turtles from Hydrilla & Stigonematales Invasions. US Fish and Wildlife Service, Aquatic Invasive Species. Project Duration: September 2013-December 2014. Total: \$19,372

Susan B. Wilde. Investigating the seasonal and spatial extent of Avian Vacuolar Myelinopathy in Florida. FFWCC. Project Duration: September 2013-June 2014. Total: \$30,835

Deepak Mishra and Susan B. Wilde. Developing a cyanobacteria detection tool for Georgia inland waters using NASA Landsat-8 OLI data for water quality protection and restoration, NASA DEVELOP. 06/15/2014-11/30/2014. Total: \$20,000.

Susan B. Wilde and Deepak Mishra. Implications of eutrophication and climate change in promoting toxic cyanobacterial blooms in agricultural ponds across Georgia. Georgia Water Resources Institute. Project Duration: March 2014-February 2015. Total: \$36,320

Olin Rhodes, Susan B. Wilde, and Albert Bryan. Cadmium levels in birds. CESU Piedmont US Department of Army. January 2014-October 2016. Total \$196,783

Susan B. Wilde. Investigating risk and management of Avian Vacuolar Myelinopathy in Florida. FFWCC. Project Duration: September 2014-June 2015. Total: \$34,567

John Maerz and Susan B. Wilde. Assessing Sensitivity of Native Amphibians to Hydrilla & Stigonematales Invasions. Gulf States Marine Fisheries Commission. Project duration: September 2014-December 2015. Total: \$17,462

Susan B. Wilde. Investigating risk and management of Avian Vacuolar Myelinopathy in Florida, Yr2. FFWCC. Project Duration: July 2015-June 2016. Total: \$34,342

Deepak Mishra and Susan B. Wilde. Developing a cyanobacteria detection tool for Georgia inland waters using NASA Landsat-8 OLI data for water quality protection and restoration, NASA DEVELOP. Project Duration: June 2014-November 2014.

Susan B. Wilde and Deepak Mishra. Implications of eutrophication and climate change in promoting toxic cyanobacterial blooms in agricultural ponds across Georgia. Georgia Water Resources Institute. Project Duration: March 2014-February 2015. Total: \$36,320

Deepak Mishra, Elizabeth Kramer, and Susan Wilde. Understanding and managing the risk from cyanobacteria toxicity in farm ponds due to land management and climate interactions. NIFA/USDA-NNF. Project Duration: August 2015-July 2017. Total: \$36,000.

Susan Wilde, Jim Ozier, and Michael D. Netherland. Developing an integrated, adaptive approach to hydrilla management to reduce risk of Avian Vacuolar Myelinopathy in J. Strom Thurmond Reservoir (GA/SC). U.S. Fish and Wildlife Service, Aquatic Nuisance Species Program. Project Duration: May 2015-September 2016. Total: 29,667.

Susan B. Wilde. Investigating risk and management of Avian Vacuolar Myelinopathy in Florida, Yr2. FFWCC. Project Duration: July 2015-June 2016. Total: \$34,342

Darold Batzer, Joseph McHugh, C. Rhett Jackson, Dennis Hancock, Susan Varlamoff, Mark Risse, Susan Wilde, and George Vellidis. Integrating Wetland Ecosystem Services into Agriculture: a University of Georgia Demonstration Project. Environmental Protection Agency; Wetland Program Development Grant. Project Duration: October 2015-September 2018. Total: \$197,540.