Andrew S. Kane

Associate Professor

Department of Environmental and Global Health College of Public Health and Health Professions University of Florida, Gainesville, FL

Director

UF Aquatic Pathobiology Laboratories Emerging Pathogens Institute KANE@UFL.EDU

EDUCATION

1981	Bachelor of Science	Cornell University
1985	Master of Science	Ohio State University
1993	Doctor of Philosophy	University of Maryland

<u>PERSONAL STATEMENT</u>: My research program focuses on environmental and public health issues at the human interface with aquatic and marine systems. Transdisciplinary collaborations and community-based research focuses on occupational health, safety and wellness for commercial seafood harvesters, primarily in the northeastern Gulf of Mexico. Environmental health aspects of my program facilitate examination of contaminant and water quality stressors on biota and host/pathogen interactions. Research program emphases include behavioral toxicology of fishes, seafood safety in the Gulf of Mexico following the Macondo spill, oyster resource restoration, coastal aquaculture development, and community-based science to support healthy Gulf coast communities.

CURRENT ADACEMIC AFFILIATIONS

2007-present	Associate Professor of Environmental and Global Health College of Health and Health Professions University of Florida, Gainesville, FL
2007-present	Graduate Faculty-College of Public Health and Health Professions Graduate School, University of Florida, Gainesville, FL
2009-present	Joint Associate Professor, College of Veterinary Medicine Department of Physiological Sciences and Center for Environmental and Human Toxicology
2011-present	Joint Associate Professor, College of Medicine, Department of Medicine, Division of Mycobacteriology, University of Florida, Gainesville, FL
2011-present	Graduate Faculty-School of Natural Resources and Environment Graduate School, University of Florida, Gainesville, FL

PRIOR FACULTY AFFILIATIONS

1993-2000	Assistant Professor Department of Pathology University of Maryland School of Medicine Baltimore, MD
1993-1999	Envirovet Faculty: Program in Aquatic Animal Medicine and Environmental Toxicology College of Veterinary Medicine University of Illinois, Urbana, IL
1994-2008	Graduate Faculty - Graduate School University of Maryland at Baltimore, Baltimore, MD
1994-2008	Graduate Faculty Marine Estuarine Environmental Science Program University of Maryland System, College Park, MD
1999-2008	Graduate Faculty System-wide Program in Toxicology University of Maryland System, College Park, MD
2000-2008	Associate Professor University of Maryland, College of Ag. & Natural Resources Department of Veterinary Medicine, College Park, MD
2000-2003	Assistant Professor University of Maryland School of Medicine Department of Medicine. Baltimore, MD
2000-2004	Assistant Professor, Adjunct University of Maryland School of Medicine Department of Epidemiology and Preventive Medicine. Baltimore, MD
2004-2008	Associate Professor, Adjunct University of Maryland School of Medicine Department of Epidemiology and Preventive Medicine. Baltimore, MD
2004-2008	Assistant Professor The Johns Hopkins University Department of Art as Applied to Medicine. Baltimore, MD

MAJOR ACADEMIC TASKS

1993-1998	Associate Director, Aquatic Pathobiology Center Department of Pathology, University of Maryland School of Medicine, Baltimore, MD
1999-2007	Director, Aquatic Pathobiology Center Department of Veterinary Medicine, University of Maryland, College Park MD; Department of Epidemiology & Preventive Medicine University of Maryland, Baltimore MD
2008-present	Director, Aquatic Pathobiology Laboratories Emerging Pathogens Institute University of Florida, Gainesville, FL
2008-2012	Associate Chair, Department of Environmental and Global Health College of Public Health and Health Professions University of Florida, Gainesville, FL
2014-2016	Graduate Program Director, Masters of Health Sciences Program Department of Environmental and Global Health College of Public Health and Health Professions University of Florida, Gainesville, FL
2014-2017	Graduate Program Director, Environmental Health and One Health Doctoral Programs, Department of Environmental and Global Health College of Public Health and Health Professions University of Florida, Gainesville, FL

PROFESSIONAL MEMBERSHIPS

1980-present	American Fisheries Society
1984-1990	AFS Fish Culture Section
1986-present	AFS Fish Health Section
1984-1993	American Institute of Fisheries Research Biologists
1991-present	Society of Environmental Toxicology and Chemistry
1998-2007	American College of Toxicology
1998-2012	International Association for Aquatic Animal Medicine

HONORS AND AWARDS

1980	Phi Sigma Omicron, Cornell University
1986	Skinner Memorial Award, Am Institute of Fisheries Research Biologists
1992	Sigma Xi, Maryland Chapter
1993	Schwartz Academic Achievement Award, Univ MD School of Medicine
1995	Faculty Development Award, University of Maryland System
2010	Certificate of Recognition for personal contributions to the advancement and improvement of fisheries science, in the professional and public interest, by serving as Co-chair of the Organizing Committee for the 6 th International Symposium on Aquatic Animal Health.
2012	Elected Member, Delta Omega (Public Health Honorary Society, Beta Upsilon Chapter)
2012	Faculty Enhancement Award, University of Florida
2015	Award for Outstanding Dedication and Community Service, City of Cedar Key and Cedar Key Aquaculture Association
2017	University Term Professor Award for Distinguished Research
2018	WK Kellogg Community Engagement Scholarship Award, Healthy Gulf Healthy Communities Program

EDITORIAL and REVIEW TASKS

1993-2007	Reviewer, Life Sciences
1993-2007	Reviewer, Toxicologic Pathology
1995-1996	Editorial Assistant, Aquatic Toxicology, G. Rand, editor
	(Taylor and Francis Publishing Co.)
1996-2006	Reviewer, Journal of Aquatic Animal Health
1996-2007	Book Review Editor, Aquatic Toxicology
	(International peer-reviewed journal; primary in field)
1998	Editor, Proceedings 3 rd International Symposium Aquatic Animal Health
2002-2007	Reviewer, <i>Estuaries</i>
2002-2007	Reviewer, Environmental Research
2008	Reviewer, Final Research Report, Universidad Nacional de Colombia
2010	Reviewer, European Association of Fish Pathologists Journal
2010	Editor, Proceedings 6 th International Symposium Aquatic Animal Health
2011	Reviewer, Diseases of Aquatic Organisms
2015-16	External Reviewer, Tenure and Promotion Candidate Reviews,
	Department of Integrative Biology, University of Colorado
2020	Reviewer, Journal of Agromedicine
2023	Reviewer, Journal of Shellfish Research

CONSULTANCIES

1981	Lund's Fishery, Cape May, NJ
1986-2007	National Aquarium in Baltimore, Baltimore, MD
1990-2007	House of Tropicals, Glen Burnie, MD
1998-2000	Florida Dept of Environmental Protection, USF, St. Petersburg, FL
1998-2000	Pathology media consultant, Grasso & Associates, Baltimore, MD
2009-2014	Christianville Fish Farm, Gressier, Haiti
2012-2013	US AID, Haiti WINNER program, Cul de Sac, Haiti.

CAMPUS ACTIVITIES

1993-2006	Mentor, UMB Discovering Careers at University Center
1993-2006	Advisor, Independent electives for medical and graduate students
1994-2007	Reviewer, American Cancer Society Institutional Resource Grant (IRG) Review Committee, UMB
1994	Ad Hoc Reviewer, Special Research Initiative Support (SRIS) Study Section #5, Designated Research Initiative Committee, UMB
1994	Mentor, Shriver Center at UMBC
1995-2000	Mentor, SANDALS Program, in coordination with the College of Notre Dame of Maryland and the Baltimore City School System
1996-2000	Member and Reviewer, Animal Care and Use Committee, UMB
1996-2000	Interim Webmaster, Department of Pathology, UMB
1996-2007	Contributor, Graduate "Survival" Series, UMB Graduate School
1999-2001	Mentor, Howard Hughes Medical Institute Fellow
2001-2002	Guest Teacher on 'Animals and the Environment,' Center for Young Children, University of Maryland College Park
2002	Mentor, Park School Senior Independent study
2002	Mentor, Morgan State University, NIH BRIDGES Program
2007	Member, Emerging Pathogens Institute Search Committee for Institute Business Manager, UF
2008	Member, Emerging Pathogens Institute Search Committee for Molecular Microbiologist, UF
2008	Member, Emerging Pathogens Institute Search Committee for Plant Pathologist, UF
2008	Member, College of Public Health and Health Professions Search Committee for Director of Environmental Health Program, UF

CAMPUS ACTIVITIES, continued

2008	Reviewer, UF/IFAS FAES/CRIS proposals, Gainesville, FL
2009	Reviewer, Florida Agricultural Experiment Station Grant Awards
2009	Member, College of Public Health and Health Professions Search Committee for Vectorborne Disease Specialist, Environmental Health Program, UF
2009-2011	Member, College of Public Health and Health Professions Research Committee, UF
2011	Member, College of Public Health and Health Professions Research Subcommittee to establish enhanced college-wide research profile, UF
2011	Member, College of Public Health and Health Professions Research Subcommittee for Research Day keynote lecturer, UF
2012-2013	Member, College of Public Health and Health Professions Tenure and Promotions Committee, UF
2013-2016	Member, College of Public Health and Health Professions Collaboration Committee, UF
2013-present	Aquatic Health Extension Affiliate, Florida Sea Grant Program,
	University of Florida, Gainesville, FL
2013-2019	Member, College of Public Health and Health Professions Blended
	Learning Team, UF
2020-present	Chair, College of Public Health and Health Professions Financial Aid and Scholarship Committee, UF
2020-present	Member, College of Public Health and Health Professions Research Committee, UF

REGIONAL ACTIVITIES

1993-2006	Outreach Instructor, Maryland Science Week Program, Baltimore, MD
1993-2006	Community Liaison, University Center Outreach Program, UMB
1995-2007	Member, Aquatic Animal Health Committee, Maryland Department of Agriculture, Aquaculture Division
1995	Graduate Fellowship Peer Panel Reviewer. Life Sciences Study Section, U.S. Environmental Protection Agency, Washington, DC
1997-2007	Member, Technical Advisory Committee, Council on <i>Pfiesteria</i> , Fish Lesions and the Chesapeake Bay, Maryland Department of Natural Resources, Annapolis, MD
1997-2007	Member, Strategic Planning Group for Harmful Algal Blooms and Chesapeake Bay Health, State of Maryland
2007-present	Member, Aquatic Animal Health Program, University of Florida

REGIONAL ACTIVITIES, continued

2011	Session Leader, 97 th Annual Meeting of the American Society for Microbiology, Southeastern Branch, Gainesville, FL
2013-present	Aquatic Health Specialist, Florida Sea Grant Program, University of Florida, Gainesville, FL
2013-present	University Liaison to Gulf coastal seafood working communities through multiple state- and Federally-funded projects. Maintain working relationships with community partners associated with, and external to, funded projects in Dr. Kane's program. Communities in Florida include Cedar Key, Steinhatchee, Panacea, Alligator Harbor, Eastpoint and Apalachicola and Pensacola; in Alabama and Mississippi, communities include Mobile, Bayou La Batre, Coden, Biloxi and Pass Christian.
2018-present	Co-Organizer, NIOSH Southeast Regional Research Symposium on Occupational Health and Safety. Program development, co-host and implementation coordinator.
2020	Study Coordinator, Cedar Key Arm, COVID-19 Research Study, UF Emerging Pathogens Institute. Coordinated implementation, enrolled participants, surveyed, sampled, and reported results for 504 residents.

NATIONAL AND INTERNATIONAL ACTIVITIES

1999-2002	Chair, Co-Organizer and Host, Third International Symposium on Aquatic Animal Health, August 30 th -September 3 rd , 1998, Baltimore, MD
1998	Co-Organizer, East Coast Fish Health and Sampling Workshop, MD Department of Natural Resources, Oxford, MD.
1998	Advisory Committee Member, Pollution Reponses in Marine Organisms (PRIMO) meeting, April, 25-29, Williamsburg, VA
1998	Invited Workshop Leader, Workshop to Standardize <i>Pfiesteria</i> Monitoring Protocols, 14-15 December, Silver Spring, MD
1999-2002	Advisor, Fourth International Symposium on Aquatic Animal Health, August 2002, New Orleans, LA
2001	Instructor, Aquatic Toxicology Short Course. National University of Colombia, Bogota, Colombia.
2001	Invited speaker, 3 rd International Symposium on Aquaculture. National University of Colombia, Bogota, Colombia
2001	Program Co-Organizer, 22 nd Annual Meeting of the Society of Environmental Toxicology and Chemistry.
2003-2006	Advisor, 5 th International Symposium on Aquatic Animal Health, San Francisco, CA.

NATIONAL AND INTERNATIONAL ACTIVITIES, continued

2007-2010	Host and Co-Organizer, 6 th International Symposium on Aquatic Animal Health, Tampa 2010.
2007-2010	Chair, International Meeting Oversight Committee, American Fisheries Society, Fish Health Section.
2007	Reviewer, National Science Foundation, Biological Oceanography Program.
2008	Reviewer, International Foundation for Science, Stockholm, Sweden.
2009	Reviewer, Salton-Kennedy Grant Program, US Department of Commerce, National Oceanic and Atmospheric Administration.
2009-2015	Member, PHHP research team to evaluate water quality, fish production and public health issues in Grassier, Haiti.
2009	Reviewer, National Institutes of Health, NIH R13/U13 competition.
2010	Session Chair: Measuring Biotic Outcomes of Environmental Stress in Aquatic Animals. 31 st Annual meeting of the Society of Environmental Toxicology and Chemistry, Portland, OR.
2012-2017	Chair, Seafood Exposure Assessment Working Group, National Institute of Environmental Health Science, Deepwater Horizon Consortium.
2015-present	Member, Organizing Committee, 7 th International Symposium on Aquatic Animal Health, Prince Edward Island, CANADA
2016-2022	Deputy Director, Southeastern Coastal Center for Agricultural Safety and Health. National Institute for Occupational Safety and Health (NIOSH).
2022-present	Director, Emerging Issues Program, Southeastern Coastal Center for Agricultural Safety and Health. National Institute for Occupational Safety and Health (NIOSH).
2016-present	SCCAHS Administrative Representative to the Association of University Programs in Occupational Health and Safety (AUPOHS); Outreach on NIOSH and SCCAHS program impacts to the US Senate and House of Representatives, Washington, DC.

TEACHING ACTIVITIES

1985	Coursemaster, Aquaculture (graduate course) Ohio State University, Division of Fisheries and Wildlife Management, Columbus, OH.
1986-1988	Science Coordinator and Educator (7-12 grades and undergraduates) Lady Maryland Foundation, Baltimore, MD.
1990-2000	Lecturer, Aquatic Parasitology (graduate-level), University of Maryland
1993-1996	Coursemaster, Pathology Seminar Series (PATH 618), Department of Pathology, University of Maryland Medical School, Baltimore, MD
1993-2000	Laboratory Instructor, Sophomore Pathology/Medical Curriculum (medical and graduate students), University of Maryland, Baltimore, MD
1993-2000	Lecturer, Aquatic Pathobiology (PATH 606), University of Maryland, Baltimore, MD
1993-2000	Instructor, Envirovet Program, University of Illinois.
1993-2000	Mentor, Governor's Commission for the Enhancement of Science Education, Baltimore, MD
1994-2007	Co-coursemaster, Scientific Writing and Communication. Art as Applied to Medicine, Johns Hopkins University.
1999-2001	Lecturer, Modern Microscopy and Imaging Techniques (PATH 712), University of Maryland, Baltimore, MD
2000-2007	Lecturer, Introduction to Diseases of Animals (ANSC 412), University of Maryland, College Park, MD
2001-2003	Coursemaster, Scientific Communication (VM 8814), University of Maryland, College Park, MD
2001-2007	Lecturer, Wildlife Diseases (ANSC 252), University of Maryland, College Park, MD
2000-2007	Lecturer and Laboratory Instructor, Anatomy of Domestic Animals (ANSC 211), University of Maryland, College Park, MD
2001-2007	Lecturer, Aquaculture Course (ANSC 489/688; MEES 698), UMCP
2002-2006	Coursemaster, Applied Toxicology (NURS 735; TOXI 735), UMB School of Nursing
2003-2007	Coursemaster, Science Communication Techniques (MEES 602/608S), University of Maryland, College Park, MD
2008-2012	Lecturer, Diseases of Warmwater Fishes, College of Vet Medicine, UF
2008-2012	Lecturer, Fish Anatomy and Physiology. Aquatic Animal Clerkship Program, College of Veterinary Medicine, UF
2008-2012	Lecturer, Bacterial Diseases of Fish. Aquatic Animal Clerkship Program, College of Veterinary Medicine, UF
2008-present	Lecturer, Undergraduate Honors Program, College of Public Health and Health Professions, UF

TEACHING ACTIVITIES, continued

2008-present	Coursemaster, Aquatic Systems and Environmental Health, PHC 6301, College of Public Health and Health Professions, UF
2009	Lecturer, Public Health Issues in Haiti: Not Too Far From Home, Public Health Concepts, PHC 4101, UF (Summer & Spring Semesters)
2012-present	Coursemaster, Scientific Communications in Environmental Health, PHC 6706, College of Public Health and Health Professions, UF
2014-2018	Lecturer, Ecotoxicology and Risk Assessment, VME 6934, UF
2017	Lecturer, Department of Physiological Sciences, College of VetMed, UF
2020-2022	Coursemaster, Public Health Research Methods, PHC 6715, College of Public Health and Health Professions, UF
2021	Coursemaster, Environmental Health Concepts in Public Health, PHC 6713, College of Public Health and Health Professions, UF
2023	Coursemaster, Environmental Health Concepts in Public Health, PHC 4320, College of Public Health and Health Professions, UF

STUDENT MENTORING

1993-1999	MS Advisory Committee Member (UMB), Lance Yonkos (graduated 1999).
1993-2007	MS Advisor (UMB/UMCP) for: Jaime González (graduated 1997), Lance Yonkos (graduated 2003), Lisa Melewski (graduated 2001) Geoffrey Gipson (graduated 2003), Cindy Stine (graduated 2003), Carmel Smith (graduated 2007).
1993-1998	MS Mentor (Johns Hopkins University) for John Dorn (graduated 1997), William Scavone (graduated 1998).
1993-2008	PhD Advisory Committee Member (UMB): Vallen Emory (graduated 1998), Tina Armstrong (graduated 1999), Suzanne Jacobson (graduated 1999), Lance Yonkos (graduated 2005).
1993-2008	PhD Advisor (UMB/UMCP) for: Pedro Del Valle (graduated 1999), Jim Salierno (graduated 2005), Jaime Gonzalez (graduated 2004), Pravhakar Reddy (graduated 2007), Roberta Garcia (graduated 2007), Cindy Stine (graduated 2008), Ron Miller (graduated 2008).
2000-2001	Mentor, Kristen Vance, Howard Hughes Medical Institute UG Fellow.
2002	Mentor, Park School Graduate Intern Program, Lea Schleimer, UM
2002-2003	Mentor, Claude McKay and Terrance Perkins, Morgan State University,
	NIH BRIDGES Undergraduate Program
2008-2010	MPH Advisor, Griffin Sheehy, Environmental and Global Health, College of Public Health and Health Professions, UF
2008-2009	MPH Mentor, Special Graduate Research Project, Melissa McClain,

	College of Public Health and Health Professions, UF
2008-2011	PhD Advisor, Stephanie Yarnell, College of Medicine IDP Program, UF.
2009-2013	Advisor, Jacob Shumac, Undergraduate Honors Program in Pubic Health, UF
2010-2011	Advisor, William Bledsoe, Undergraduate Honors Program in Pubic Health, UF
2010-2012	Advisor, Monique Ellsworth, Undergraduate Honors Program in Pubic Health, UF
2010-2013	MS Advisor, Marie Pascale St. Martin Francois, Winner Program Scholar, School of Natural Resources and Environment, UF
2011-2014	PhD Advisor, Soojin Joen, School of Natural Resources and Environment, UF
2011-2013	MS Co-Advisor, Mark Menn, Environmental Toxicology Program, University of South Alabama
2011-2013	PhD Advisory Committee Member: Becky Lazensky, College of Veterinary Medicine, UF
2011-2014	PhD Advisory Committee Member: Candice Lavelle, College of Veterinary Medicine, UF
2011-2015	PhD Advisory Committee Member: Alex Weppleman, Environmental and Global Health, College of Public Health and Health Professions, UF
2012-2016	MPH Advisor, Kaitlyn Summerfield, Environmental and Global Health,
	College of Public Health and Health Professions, UF
2012-2014	MPH Advisor, Catherine McDermott, Environmental and Global Health,
	College of Public Health and Health Professions, UF
2012-2014	MPH Advisor, Andrea Ramirez, Environmental and Global Health,
	College of Public Health and Health Professions, UF
2012-2013	MS Research Advisor, Ida Øglænd, University of Stavanger, Norway
2012-2016	PhD Advisor, Makyba Charles, Environmental and Global Health
	Program, College of Public Health and Health Professions, UF
2013-2014	Advisor, Jaclyn Pine, Undergraduate Honors Program in Pubic Health,
2013-2014	MS Co-Advisor, Felipe Sanchez (Animal Science), Institute for Food and Agricultural Sciences, UF
2013-2016	MPH Advisor, Sydney Hayter, Environmental and Global Health, College of Public Health and Health Professions, UF
2013-present	PhD Advisory Committee Member, Luke Trimmer-Smith (Biology), College of Liberal Arts and Sciences, UF
2014-2018	PhD Advisor, Felipe Sanchez, Environmental and Global Health Program, College of Public Health and Health Professions, UF

STUDENT MENTORING, continued

2014-2016	MPH Advisor, Demi Danso-Odei, Environmental and Global Health Program, College of Public Health and Health Professions, UF
2014-2016	MPH Advisor, Cortney Urban, Environmental and Global Health Program, College of Public Health and Health Professions, UF
2014-2016	MHS Advisor, Jennifer Bouland, Environmental and Global Health Program, College of Public Health and Health Professions, UF
2014-2016	MS Advisory Committee Member, Jessica Jenkins, Anthropology, Laboratory of Southeastern Archeology, UF
2014-2017	MHS Advisor, Gabi Repek, Environmental and Global Health Program, College of Public Health and Health Professions, UF
2014-2018	MHS Advisor, Donald Neiffer, Environmental and Global Health Program, College of Public Health and Health Professions, UF
2015-2018	MS Co-Advisor, Jennifer Lamb, National Estuarine Research Reserve, IDP Program in Ecology, UF
2015-2017	MHS Advisor, Emi Moore, College of Public Health and Health Professions, UF
2016-2018	MPH Advisor, Ahmed Alotaibi; College of Public Health and Health Professions, UF
2016-2018	MPH/MHS Advisor, Jordan King, College of Public Health and Health Professions, UF
2016-present	PhD Co-Advisor, Yaser Alshafi, Environmental and Global Health Program, College of Public Health and Health Professions, UF
2016-present	MS Advisor, Shelby Thomas, School of Natural Resources and the Environment, UF
2016-2018	PhD Co-Advisor, Catherine McDermott, Environmental and Global Health Program, College of Public Health and Health Professions, UF
2017-2018	Post-Doctoral Mentor, Ettie Lipner, NTM Center of Excellence, National Jewish Health Center, Denver, CO
2017-2020	MPH Advisor, Chloe Lloyd and Cirilo Lora; College of Public Health and Health Professions, UF
2017-2020	MPH Advisor, Chloe Lloyd and Cirilo Lora; College of Public Health and Health Professions, UF
2019-2021	MS Advisor, Rebecca Rash, School of Natural Resources and the Environment, UF

STUDENT MENTORING, continued

2019-2021	MPH Advisor, Jenny Coleman, Amanda Lindeman; College of Public Health and Health Professions, UF
2019-2021	MHS Advisor, Zelda Blowers, Jasmine Palmer; College of Public Health and Health Professions, UF
2020-present	PhD Advisor, Lauren Hintenlang; College of Public Health and Health Professions, UF
2020-present	MHS Advisor, Christina Leonard; College of Public Health and Health Professions, UF
2020-present	MHS Advisor, Nicole Commisso; College of Public Health and Health Professions, UF
2020-present	MHS Advisor, Olivia Bonebrake; College of Public Health and Health Professions, UF
2021-present	MHS Advisor, Stacie Schulman; College of Public Health and Health Professions, UF

GRANTS and CONTRACTS

1991-1992	Resource Facility Improvement Grant, NIH #1 G20 RR06059/01, Louis DeTolla, P.I., National Center for Research, National Institutes of Health. \$298,166.
1993-1994	President's DRIF Award. Andrew S. Kane, P.I., University of Maryland School of Medicine. Development of Interactive Educational Software on Aquatic Pathobiology. \$13,000.
1993-1994	American Cancer Society Institutional Research Grant, #IRG-147L. Andrew S. Kane, P.I. University of Maryland School of Medicine. Development and Evaluation of In Vitro Procedures Using Fish to Assess Metabolic Capacity and Carcinogenicity of Benzo(a)pyrene. \$9,520.
1994-1995 1995	Maryland Sea Grant, Program Development Award. Andrew S. Kane, P.I. Production and Mastering of a Computer-based Multimedia Program for Studying Fish Anatomy, Health and Necropsy. \$9,990. Special Research Initiative Support (SRIS). Andrew S. Kane, P.I. University of Maryland School of Medicine. Investigation in Phase I Biotransformation in Fish. \$10,500.
1995	Faculty Development Fund Award. University of Maryland System. Andrew S. Kane P.I. Discovery-based Computer Training Modules for the Classroom and Laboratory. \$2,372.
1995-2000	U.S. Army, Directorate for Health, Safety and the Environment. Martin Marietta subcontract. Andrew S. Kane, P.I. Fish Pathology Studies, Biomonitoring and Community Relations at Aberdeen Proving Ground, Maryland. \$74,218, \$58,569 and \$110,000 (competitive renewals).
1996-1998	Maryland Industrial Partnerships. Andrew S. Kane, P.I. Software Development of an HIV/AIDS Multimedia Outreach Program. \$109,875.
1996-1999	National Institutes of Environmental Health Sciences (5RO1-ES06217). Andrew S. Kane, P.I. Mechanisms Underlying Segment-specific Nephrotoxicity. \$293,341.
1997-2000	Northeast Regional Aquaculture Center (USDA subcontract). Andrew S. Kane, P.I. Expansion of the FishGuts Fish Anatomy, Health and Necropsy Software Training Program. \$71,491.
1997-2001	Maryland Sea Grant, Program Development Award (competitive renewal in 1999). Andrew S. Kane, P.I. Collaborative Fish Health/ <i>Pfiesteria</i> Outreach for the Worldwide Web. \$18,800.
1997-1998	Competitive Grants Program, College of Agriculture and Natural Resources. Andrew S. Kane, Co-PI. Histological Atlas to Illustrate Normal Tissue Conditions of the Fathead Minnow. \$14,250.

GRANTS and CONTRACTS, continued

1998-1999	Competitive Grants Program, College of Agriculture and Natural Resources. Dan Fisher and Andrew S. Kane, Co-P.I.s Examination of a Chronic Sediment Toxicity Problem in the Wye River Using Suborganismal, Organismal, Population and Community Indicators of Stress. \$40,000.
1998-1999	Maryland Department of Natural Resources. Andrew S. Kane, P.I. Support for the Third International Symposium on Aquatic Animal Health. \$5,000.
1998-1999	National Oceanographic and Atmospheric Administration/National Marine Fisheries Service. Andrew S. Kane, P.I. Support for the Third International Symposium on Aquatic Animal Health. \$5,000.
1998-1999	Northeastern Regional Aquaculture Center. Andrew S. Kane, P.I. Support for the Third International Symposium on Aquatic Animal Health. \$3,000.
1998-1999	US Geological Survey. Andrew S. Kane, P.I. Support for the Third International Symposium on Aquatic Animal Health. \$2,500.
1998-1999	US Environmental Protection Agency. Andrew S. Kane, P.I. Support for the Third International Symposium on Aquatic Animal Health. \$5,700.
1998-1999	US Department of Agriculture. Andrew S. Kane, P.I. Support for the Third International Symposium on Aquatic Animal Health. \$7,450.
1998-2000	US Environmental Protection Agency. Andrew S. Kane, P.I. Effects of Nutrient Enrichment on Opportunistic Pathogens. \$84,674.
1998-2003	National Institutes of Environmental Health Sciences. Andrew S. Kane, CoP.I. Core Facility for Toxic Dinoflagellate Culture. \$866,763.
1999-2000	US Army Center for Environmental Health. Andrew S. Kane, P.I. Phase I behavioral monitoring of harmful algal blooms and other water quality perturbations. \$12,500
2000-2001	U.S Army Center for Environmental Health. Andrew S. Kane, PI. Phase II (renewal) behavioral monitoring of harmful algal blooms and other water quality perturbations. \$168,000
2000-2003	US Environmental Protection Agency/ECOHAB. Andrew S. Kane, PI. Behavioral toxicology and pathology of early exposure to toxic <i>Pfiesteria</i> -like organisms. \$413,889.
2001-2002	Joint Institute for Food Safety and Food Nutrition (JIFSAN). Andrew S. Kane, P.I. Pilot study to investigate kinetic profiles and residues of drugs used in finfish aquaculture. \$8,000
2001-2002	Maryland Agriculture Experiment Station (MAES). Andrew S. Kane, PI. Kinetic biotransformation profiles of antimicrobials used in aquaculture: Pilot study support. \$12,000.

GRANTS and CONTRACTS, continued

2001-2003	U.S. Environmental Protection Agency. Andrew S. Kane, PI Development of a descriptive field guide to fish lesions. \$30,000.
2002-2004	Maryland Agriculture Experiment Station (MAES). Andrew S. Kane, P.I. Mycobacteriosis in Chesapeake Bay Striped Bass. \$40,000.
2002-2003	Maryland Sea Grant. Arthur Popper, PI; Andrew S. Kane, Co-P.I., Pilot Study to Investigate Biological Effects of Acoustical Stress in Fish. \$8,000.
2002-2004	Joint Institute for Food Safety and Food Nutrition (JIFSAN). Andrew S. Kane, P.I. Facilitating Needed Drug Approvals for Aquaculture: In Vitro Metabolic Profiles to Characterize and Predict Drug Residues in Finfish. \$132,000.
2003-2007	National Oceanographic and Atmospheric Administration (NOAA). Andrew S. Kane, PI. Striped Bass Stock Health Assessment: Mycobacteriosis Prevalence and Distribution. \$465,168.
2004-2007	Centers for Disease Control and Prevention (CDC). Andrew S. Kane, PI. Pocomoke Fish Health and Regional Outreach Program. \$511,230.
2007-2010	US Environmental Protection Agency. Dan Fisher, PI; Andrew S. Kane, Co-PI. Transport, fate and ecological effects of steroids in poultry litter. \$699,736.
2008-2010	Department of Commerce. Andrew S. Kane, PI. Diagnostics on deformed fish in support of St. Lucie Fish Health Study. \$14,985
2009-2010	Department of Commerce (NIST). Andrew S. Kane, PD; Winn Philips, Institutional PI. "Aquatic Animal Health Facility: Measuring Environmental Outcomes of Biotic Stress." \$1,267,086.
2009-2012	National Science Foundation. Nancy Denslow, PI; Andrew S. Kane, Co-I. Fate and toxicity of metallic nanoparticles in aquatic organisms. \$299,122.
2010-2011	Department of Commerce / National Oceanographic and Atmospheric Administration (NOAA). Andrew S. Kane PI. "Investigation of Responses to Stress in fish." \$76,035.
2010-2012	University of Florida – Opportunity Fund Award. Andrew S. Kane, PI. "Epidemiology and environmental reservoirs of mycobacteria in Florida." \$85,610.
2011-2017	National Institutes of Health, NIEHS 5RO1. Andrew S. Kane, PI/Project Lead. "Seafood Hydrocarbon Residues and Coastal Community Health;" \$1,569,827. U19 ES020683 "Health Impact of Deepwater Horizon Spill in Eastern Gulf Coast Communities.

GRANTS and CONTRACTS, continued

2012-2013	Florida Fish and Wildlife Conservation Commission (sub-award through University of South Florida). Andrew S. Kane, PI. "Effect of Deepwater Horizon Oil Spill on Fish Communities." \$86,132.
2012-2013	Faculty Enhancement Opportunity Award, UF. Andrew S. Kane, PI. "Professional Development and Environmental Health Training in Haiti." \$36,079.
2012-2019	Institute for Food and Agricultural Sciences, UF. Andrew S. Kane, PI. "Research Support for Apalachicola Bay Oyster Resource Recovery." \$110,000.
2014-2015	Florida Sea Grant/NOAA. Andrew S. Kane, PI. "Restoration Research in Apalachicola Bay: Oyster Substrate and Density Sampling." \$100,000.
2015-2019	Florida Fish and Wildlife Conservation Commission (Prime through National Fish and Wildlife Foundation). Andrew S. Kane Co-PI. "Research, Communication and Community Engagement Support for Apalachicola Bay Oyster Restoration and Management." \$1,207,553.
2016-2021	National Institute for Occupational Safety and Health (NIOSH): "Southeastern Coastal Center for Agriculture Safety and Health." JG Morris, Director, AS Kane, Deputy Director. \$8,978,917.
2016-2021	National Institute for Occupational Safety and Health (NIOSH): "Southeastern Coastal Center for Agriculture Safety and Health." Andrew S. Kane, PI. U54OH011230 "Occupational Health and Safety Surveillance of Gulf Seafood Workers." \$1,290,000.
2019-2021	US Department of Commerce, Florida Sea Grant Program / NOAA. "Investigations and Community Engagement to Address Theft and Vandalism Affecting Florida's Gulf Coast Shellfish Production." Andrew S. Kane, Co-PI. \$176,157.
2020-2022	UF/IFAS SEEDIT Program (Support for Emerging Enterprise Development Integration Teams). "Community-based Research to Address Oyster Mortalities and Support Production in Florida's Emerging Off-bottom Oyster Aquaculture Industry." Andrew S. Kane, Co-PI, \$75,000.
2021-2022	Faculty Enhancement Opportunity Award, University of Florida. "Implementation Science Research and Application." Andy Kane, PI, \$34,249.

INNOVATIONS

1987	Flow-through dosing system to expose small aquatic organisms to changing pH, salinity and temperature. Kane et al. 1987. Water Research 22(10):231-237.
1980	Benthic venturi sampler (Cornell Biological Field Station).
2002	Video-based behavioral toxicology system for tracking fish movement in response to environmental stressors.
2016	Quantitative tong depletion sampling approach to support oyster resource assessment and restoration monitoring, and cost saving.

PUBLICATIONS - Refereed Journal articles

- **Kane AS**, Stockdale TM and Johnson DL. 1985. 3-Trifluoromethyl-4-nitrophenol (TFM) control of tadpoles in culture facilities. Progressive Fish-Culturist. 47(4):231-237.
- **Kane AS**, Bennett RO and May EB. 1988. A flow-through dosing system to expose small aquatic organisms to varying pH, salinity and temperature. Water Research. 22(10):1339-1344.
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- Reimschuessel R, **Kane AS**, Muhvich AG and Lipsky MM. 1993. Recovery of histological lesions in the gills of brown bullheads exposed to copper. Marine Environmental Research. 35:198199.
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- Kane, A.S., J.F. González and R. Reimschuessel. 1996. Fish and amphibian models used in toxicology. Lab Animal. 25(6):33-38.
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- **Kane, A.S.**, S. Thohan and M. Weiner. 1998. Tissue Slice Technology for Assessing Alterations in Fish Hepatic Phase I and Phase II XME Activity. Marine Environmental Research. 46:61-65.
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MONOGRAPHS, CHAPTERS AND BOOKS

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- **Kane AS**, Havens K and Lindsey A. 2014. Apalachicola Community Listening Session, October 1, 2014, Florida Sea Grant Publication TP-211.

FILMS/AUDIOVISUAL PRODUCTIONS/NEWS MEDIA

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- Kane AS, Expert Resource. Capitol Update Extended Week ending 09/13/2013. Invited interview for The Florida Channel. Coverage of UF community-based research on Apalachicola Bay. <u>https://thefloridachannel.org/videos/capitol-update-extended-ufoyster-research/</u>
- Kane AS, Expert Resource. Capitol Update Week ending 11/18/2016. The Florida Channel coverage of UF outreach on Apalachicola Bay health status. https://thefloridachannel.org/videos/cu-1938/
- **Kane AS**, Expert Resource. Capitol Update Week ending 05/11/2018. Invited interview for The Florida Channel. <u>https://thefloridachannel.org/videos/cu-2110/</u>
- **Kane AS**, Art-in-Science Outreach Exhibit: *Below The Waterline: Observations from a Disappearing Habitat.* Installation with 23 framed photographs and mixed media on exhibit at Cedar Key Arts Gallery (Sept-Nov 2021), and at the Apalachicola National Estuarine Research Reserve Education Center (Dec 2021-Jun 2022).

WEBSITE DEVELOPMENT

Outreach Developer and Content Specialist. FishGuts: A multimedia guide to the art and science of fish anatomy, health and necropsy. [Online version under development to replace CD-ROM version; Sample pages can be viewed on draft website: http://aguaticpath.phhp.ufl.edu/fg2/anat/jobs.html].

Outreach Developer and Content Specialist. Centers for Disease Control and Prevention project, University of Maryland Department of Epidemiology and Preventive Medicine.

Interim Webmaster. University of Maryland Department of Pathology.

Educational Outreach Developer. University of Maryland: Fish Health in Chesapeake Bay.

Outreach Developer. University of Maryland Aquatic Pathobiology Center website.

Outreach Developer. Third International Symposium on Aquatic Animal Health. (<u>http://aquaticpath.phhp.ufl.edu/isaah3</u>).

Subject Matter Expert and Developer. Digital Atlas of Normal Fathead Minnow Histology: (<u>http://aquaticpath.phhp.ufl.edu/fhm</u>)

Outreach Developer: US EPA EMPACT study on biomonitoring harmful algal blooms

Outreach Developer: Florida Marine Research Institute (http://floridamarine.org)

Outreach Developer. University of Florida Aquatic Pathobiology Laboratory website (http://aquaticpath.phhp.ufl.edu).

Outreach Developer. Sixth International Symposium on Aquatic Animal Health. (<u>http://aquaticpath.phhp.ufl.edu/isaah6</u>).

Outreach for funded projects:

Fish Lesions and Observations (US EPA): <u>http://aquaticpath.phhp.ufl.edu/lesionguide</u>

Fish Deformities in the St Lucie River (NOAA): <u>http://aquaticpath.phhp.ufl.edu/deformities</u>

Quantitative Macrophage Assessment to Discern Environmental Exposure and Immune Function in Silver Porgy (NOAA): <u>http://aquaticpath.phhp.ufl.edu/macrophages</u>

Healthy Gulf Healthy Communities (NIEHS): healthygulfcoast.org

ABSTRACTS

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- Kane AS and Charles MKS. 2014. Seafood Toxicology and Communications Post-DWHOS: Bridging Environmental & Public Health Concerns. National Academy of Sciences Gulf Research Program Opportunity Analysis Workshop for Environmental Monitoring, September 3-4, 2014, New Orleans, LA.
- Charles MKS, Brumback B, **Kane AS** and Stuchal LD. 2014. A probabilistic analysis of seafood consumption in the Gulf of Mexico. Society for Risk Analysis Annual Meeting, December 7-10, 2014. Denver, CO.
- Fang L, Hubbard M, Chase E, Whistler C, Kane AS, Harwood VJ and Wright AC. 2015. Distribution and genetic structure of *V. cholerae* in seawater and oysters from Apalachicola Bay, FL. Annual Meeting of the Society of Microbiology.
- **Kane AS**, Brooks RM, Sanchez FE, Byrd JH, Touroo R, Hartsfield S and Havens KE. 2015. Look deep into my shell: Shell parasitism and radiography of Apalachicola Bay Oysters. National Shellfisheries Association Annual Meeting, Monterey, CA.
- Kane AS. 2015. Seafood hydrocarbon residues and coastal community health risks. NIEHS Deepwater Horizon Research Consortium Annual Meeting, January 22-24, 2015, New Orleans, LA
- Kane AS. 2015. ACF Basin Downstream Outcomes Observed in Apalachicola Bay. Keynote speaker, American Water Research Association Regional Meeting, Apalachicola, FL. September 15, 2015.
- **Kane AS**, Brooks RM, Sanchez FE, Byrd JH, Touroo R, Hartsfield S and Havens KE. 2015. Look deep into my shell: Shell parasitism and radiography of Apalachicola Bay Oysters. Emerging Pathogens Institute Research Day, Gainesville, FL.
- Wright AC, Fang L, Fan Y, Onifade T, Harper J, Harwood VJ and Kane AS. 2015. Distribution and Genetic Structure of V. cholerae in seawater and oysters from Apalachicola Bay, FL. National Shellfisheries Association Annual Meeting, Monterey, CA
- Kane AS. 2016. Risk Messaging and Public Perception Among Gulf Coast Residents After the Deepwater Horizon Oil Spill. Society of Environmental Toxicology and Chemistry World Congress, Orlando, FL.
- Charles MKS and **Kane AS**. 2016. Seafood Safety Post-DWH: Coastal Seafood Consumption is Higher than NHANES Estimates. Society of Environmental Toxicology and Chemistry World Congress, Orlando, FL.

- James MO, **Kane AS**, Flocks J, Economos J, Charles-Ayinde M, Weinstein P, Brown C, Dang V, Booth M, Stuchal LD, Roberts SM, Sobel E, Morel LM and Denslow D. 2016. Serum p,p'-DDE concentrations in former farmworkers from the Lake Apopka region of Central Florida. National Institute of Environmental Health Sciences 50th Anniversary Symposium, Research Triangle Park, NC.
- Kane AS, Brooks RM, Charles MKS, Roberts SM, James MO, Stuchal LD, Blackburn J, Brumback B, Mathews AE, Lindsey A, Irani T, Mathews SR, Patterson WF, Connors JJ, Cantwell R, Colson S, McKinney T, Taylor J, Hartsfield S, Philips C, Cabassa M, Nelson G, and Morris JGM. 2016. One Health Case Study: Community-based Science to Bridge Environmental & Public Health Concerns Post-DWH in Gulf Coast Communities. Gulf of Mexico Oil Spill and Ecosystem Science Conference. February 1-4, 2016, Tampa, FL.
- Charles MKS and **Kane AS**. 2016. Seafood Safety Post-DWH: Coastal Seafood Consumption is Higher than NHANES Estimates. Gulf of Mexico Oil Spill and Ecosystem Science Conference. February 1-4, 2016, Tampa, FL.
- **Kane AS**, Durborow R and Myers M. 2017. Seafood Worker Health and Safety in Gulf Coast Communities. American Public Health Association, November 4-8, 2017, Atlanta, GA.
- Kane AS, Brooks RM, Sanchez F, Thomas S, Havens K, Estes J and Parker M. 2018. Visual Keys Support Oyster Health Monitoring as Part of Oyster Reef Restoration Efforts. National Shellfisheries Association Annual Meeting. March 17-23, 2018, Seattle, WA.
- Thomas S, Brooks RM, Sanchez F, Hao H and **Kane AS**. 2018. Gross and Radiographic Observations of Shell Damage by Boring Parasites in the Eastern Oyster, *Crassostrea virginica*. National Shellfisheries Association Annual Meeting. March 17-23, 2018, Seattle, WA.
- Kane AS. 2018. Invited presentation: Seafood and Seafood Worker Health in the Gulf of Mexico. 7th Annual Southeastern States Occupational Network (SouthON) Meeting, Savannah, GA.
- Kane AS, Durborow R and Myers M. 2018. Surveillance Studies Support Seafood Worker Health and Safety in Gulf Coast Communities. 5th International Fishing Industry Safety and Health (IFISH) Conference, June 10-13, 2018, Memorial University, St. John's Newfoundland, Canada. [also: https://ifishconference.ca/program-session-1c-quick-takes]
- Kane AS, Brooks RM, Hartsfield SA, Cantwell R, Colson S, Durborow R and Myers M. 2018. Seafood Workers are Aquatic Animals Too: Surveillance of Health, Injuries and Fatalities Along the US Gulf Coast. 8th International Symposium on Aquatic Animal Health (ISAAH), Charlottetown, PEI, Canada.
- **Kane AS**, Myers MM, Durborow RM, Rash R, Brooks RM. 2020. The Tough People Behind the Tender Clams: Occupational Health and Safety Support for Clam Mariculturists in Cedar Key, Florida. Annual Meeting of the National Shellfisheries Association, Baltimore, MD.

- **Kane AS** and Durborow RM. 2020. Extending Oyster Farmer Shelf Life: Staying Safe and Healthy Working on the Water. Annual Meeting of *Oyster South*, Wilmington, NC.
- Hintenlang LL, Lecours V & **Kane AS**. 2021. Nadir and oblique imaging to observe intertidal oyster populations using UAS photogrammetry. 18th International GeoHab Symposium.
- Hintenlang LL, Brooks RB & **Kane AS**. 2023. Tong Depletion Sampling for Oyster Habitat Assessment and Monitoring: A Quantitative, Cost-Effective, Safer Alternative to Quadrat Depletion Sampling. Annual meeting of the National Shellfisheries Association, Baltimore, MD.
- **Kane AS**, RM Brooks, M Myers, RM Durborrow and K Dunleavy. 2023. The tough people behind the tender shellfish: Non-fatal injuries associated with oyster and clam aquaculture in Panacea and Cedar Key, Florida. Annual meeting of the National Shellfisheries Association, Baltimore.

OTHER SYMPOSIA AND WORKSHOPS

1989	Workshop Organizer and Co-Leader, "Aquatic Animal Models: Current Research and Husbandry Issues." AALAS Baltimore, MD, April 1989
1994	Workshop Co-Leader; half-day symposium on "Aquatic Microscopic Anatomy and Pathology." Annual meeting of the Society of Environmental Toxicology and Chemistry, Washington, D.C., November 1996.
1995	Workshop Co-Chair and Seminar Leader; "The Wet, The Wild and The Captive: Laboratory Fish Medicine." 46th Annual meeting of The American Association for Laboratory Animal Science, Baltimore, MD, October 1995.
1995	Workshop Leader; Clinical Laboratory in Aquatic Animal Medicine. 46th Annual meeting of The American Association for Laboratory Animal Science, Baltimore, MD, October 1995.
1996	Workshop Leader; half-day symposium on "The Art of Science Outreach; Perspectives on Platform, Poster and Written Presentations, and Application of Computer-based Multimedia." Annual meeting of the Society of Environmental Toxicology and Chemistry, Washington, D.C., November 1996.
1998	Workshop Facilitator; two day meeting on fish, water and plankton sampling for <i>Pfiesteria</i> activity sponsored by NOAA, Silver Spring, MD, December 1998.
2001	Co-organizer, lecturer and wet lab instructor: "National Capital Area Branch of the American Association of Laboratory Animal Science Aquatics Workshop. Laurel, MD. February 28, 2001
2002	Workshop organizer and leader; "Pond-side fish health and diagnostics." Presented as part of the University of Maryland Systemwide aquaculture outreach group for Maryland Aquafarmers. UMCP, August 2002.
2008	Invited Panelist; Emerging Contaminants in the Aquatic Environment. Water Institute Symposium, University of Florida, Gainesville, FL
2011	"Food Microbiology" Session Leader, 97 th Annual Meeting of the American Society for Microbiology, Southeastern Branch, Gainesville, FL

- 2011 "Tilapia Aquaculture in Haiti." Invited contributor to special session of World Aquaculture Society International Meeting, New Orleans, LA
- 2011 "Ecosystem Health as a Basis for Human Health" Lesions Learned from the Deepwater Horizon Oil Spill." Society for Environmental Toxicology and Chemistry, Focused Topic Meeting on Gulf Oil Spill, Pensacola Beach, FL.

OTHER SYMPOSIA AND WORKSHOPS, continued

- 2012 "Bridging Environmental and Public Health Issues in the Wake of the Deepwater Horizon oil spill" *(invited)*. Duke University Superfund Research Center, Integrated Toxicology and Environmental Health Program, Washington Duke Conference Center, Durham, NC.
- 2016 "Making Good Scientific Presentations Great" *(invited)*. Half-day workshop for graduate students presented at 5th Annual Young Environmental Scientists' meeting; Society for Environmental Toxicology and Chemistry, Gainesville, FL.
- 2016 Scientific Communications Professional Training Workshop. Half-day workshop for international academic, industry and government registrants. Society for Environmental Toxicology and Chemistry, *World Congress*, Orlando, FL.

MEDIA AND OTHER OUTREACH

2001	New Center Studies Aquatic Organisms at Avrum Gudelsky Veterinary Center. Outlook Campus Newspaper, UMCP
2001	Tuberculosis in Chesapeake Bay Striped Bass. Nightline, Maryland Public Television.
2002	Turtles, Tortoises or Terrapins? Ask Annie Show, NBC Syndicated broadcast.
2002	The Successful Home Aquarium. Maryland Ag Day, UMCP.
2003	Infectious diseases in The Chesapeake Bay. Hour-long interview with University of Maryland Television (with cable-syndicated broadcasts).
2004	Good Fish, Bad Fish: Fish disease issues, regional aquaculture projects, and tasty new recipes. Maryland Ag Day, UMCP
2011	UF Research Team to Study Effects of Gulf Oil Spill. The Gainesville Sun (Nathan Crabbe reporting 7/7/2011).
2011	"Improving Military Readiness" Armed Forces Health Surveillance Center Contributions in Haiti. Contribution to the Henry M. Jackson Foundation for the Advancement of Military Medicine, 2011 Annual Report.
2013	"UF Oyster Research Extended." Capitol Update, WFSU - The Florida Channel, Week of September 13, 2013. [http://thefloridachannel.org/video/capitol-update-extended-ufoyster-research]
2015	"Ground Zero for Climate Change: Apalachicola Bay." Blue Chalk Media. [http://bluechalk.com/portfolio/ground-zero-climate-change-apalachicola-bay]

INVITED PRESENTATIONS

1989	"Use of Cell and Explant Culture Techniques in Aquatic Toxicology," Maryland Department of the Environment, Toxic Operations Center, Baltimore, MD.
1993	"Role of Phase II enzymes in selective toxicity of phenols in aquatic organisms," U.S. Environmental Protection Agency, Duluth, MN.
1993	"Conjugation of phenolic substrates in fish and aquatic amphibians," Comparative Medicine Seminar, Johns Hopkins University. Baltimore, MD.
1994	"Selective toxicity and conjugation of organic xenobiotics in aquatic organisms." U.S. Fish and Wildlife Service, Patuxant Wildlife Research Center, Laurel, MD.
1994	"Computer-enhanced photomicroscopy techniques." University of Maryland School of Medicine, Department of Pathology, Baltimore, MD.
1994	"In vitro assessment of species-specific metabolic capacity in fish using liver tissue slices and microsomes." Society of Environmental Toxicology and Chemistry, 15th annual meeting, Denver, CO.
1994	"Fish as laboratory animals: general anatomy and physiology." American Association for Laboratory Animal Science, 45th annual meeting, Pittsburgh, PA.
1994	"Water quality and husbandry requirements for fish in the laboratory." American Association for Laboratory Animal Science, 45th annual meeting, Pittsburgh, PA.
1994	"Application of computer-based multimedia for effective communication and scientific outreach." Armed Forces Institute of Pathology, Bethesda, MD.
1995	"Effectiveness of computer software for training students in fish anatomy and necropsy." 51st Annual Northeast Fish and Wildlife Conference, Ocean City, MD.
1995	"Applications in computer-based education: Advances in educational software." American Animal Hospital Association, Denver, CO.
1995	"Methods to biologically monitor health and effects of environmental contamination in aquatic organisms." Symposium on Applied Research, Education, and Urban Environmental Justice Issues, Maryland. Baltimore, MD
1995	Aquatic facility design: Housing and husbandry considerations for aquatic animals. Presented at the American Association for Laboratory Animal Science, Baltimore, MD.
1996	"Tissue slice technology for assessing alterations in fish hepatic phase I and phase II XME activity." Fourth International Symposium on Alternatives in the Assessment of Toxicity. Edgewood Research, Development and Engineering Center, Department of the Army, Edgewood, MD.
1996	"Innovative Technologies in Aquatic Pathobiology." Invited speaker for Capitol Chapter Branch meeting of the American Association for Laboratory Animal Science, Baltimore, MD.
1997	"Fish Lesions in Chesapeake Bay." Maryland Sea Grant Extension Program, Wye Education Center, Queenstown, MD.
1998	"Chesapeake Bay Fish Health: Current Issues and Where We Are Going." 1998 Aquaculture Exposition, Ocean City, MD

1998	"Fish Lesions Observed from the Chicamacomico River, Maryland." Special Session on Toxic Dinoflagellates; Annual Meeting of the Tidewater Chapter of the American Fisheries Society, Solomons, MD
1998	"The Story Starts in the Water: <i>Pfiesteria</i> and Fish Lesions in the Chesapeake Bay." University of Maryland Colloquium on Science for Office of Student Research, Baltimore, MD
1998	"Scientific Research: What, Why and How." McNair Post-Baccalaureate Achievement Program, Coppin State College, Baltimore, MD
1998	"The Science Behind Good Fish Health in Aquaculture." Presentation Leader for "Aquaculture in Action" workshop sponsored by National Sea Grant, Maryland Sea Grant and the Chesapeake Bay Trust. Carroll Co., MD
1998	"Fish Lesion Sampling and Identification: A Strategy for the US Eastern Seaboard." Presented at the East Coast Fish Health and Sampling Workshop, sponsored by Maryland Department of Natural Resources, Oxford, MD. and the National Oceanographic and Atmospheric Administration.
1998	Interstate sampling strategies for sampling Chesapeake Bay finfish: A hands-on workshop and laboratory session presented for the Delaware Division of Environmental Water Quality.
1999	"Scientific Presentation: Professional Outreach Methodology and Form." Workshop presented for graduate students and international attendees of the 10 th Conference of PRIMO (Pollution Responses in Marine Organisms), College of William and Mary, Gloucester, VA
2000	"Fish Pathology and Angler Outreach Studies in the Chesapeake Bay." Tri-Service Ecological Risk Assessment Work Group, Aberdeen Proving Ground, Edgewood Area, Aberdeen Proving Ground, MD
2001	"Differential Causes of Fish Events: Fish Kills, Ulcers and Abnormal Behavior." National Conference on <i>Pfiesteria</i> : From Biology to Public Health, sponsored by Centers for Disease Control and Prevention. Atlanta, GA.
2002	"Fish Health Evaluation," part of "Pond-side fish health and diagnostics." Presented as part of the University of Maryland Systemwide aquaculture outreach group for Maryland Aquafarmers. UMCP, College Park, MD.
2002	"Digital Presentation Skills." Summer Fellowship Program, VA-MD Regional College of Veterinary Medicine, College Park Campus, College Park, MD.
2002	"Biotransformation kinetics predicts fish responses to drugs." Center for Veterinary Medicine, US Food and Drug Administration, Laurel, MD
2003	"Fish Health and Disease." Presented as part of the University of Maryland System-wide aquaculture outreach group, in collaboration with Maryland Sea Grant, for Maryland Aquafarmers and Water Gardeners. UMCP, College Park, MD.

2005	"Striped Bass Stock Health Assessment: Mycobacteriosis Prevalence and Distribution." 2004 Chesapeake Bay Fisheries Research Program. Sponsored by NOAA at the Patuxent Wildlife Refuge Visitor's Center, Laurel, MD.
2004	"Motivational Strategies to Activate Career Opportunities in Science." College Park Scholars-Life Sciences Program, UMCP, College Park, MD
2004	"Mycobacteriosis and Other Infectious Diseases in Chesapeake Bay Fish." College Park Scholars-Life Sciences Program, UMCP, College Park, MD
2005	"An update on striped bass health in the Chesapeake Bay." 2005 Chesapeake Bay Fisheries Research Program. Sponsored by NOAA, Patuxent Wildlife Refuge Visitor's Center, Laurel, MD.
2005	"A video-based movement analysis system to quantify behavioral stress responses of individual and groups of fish." Measuring Behavior 2005: 5 th International Conference in Methods and Techniques in Behavioral Research. Wageningen, The Netherlands.
2005	"Alterations in schooling, shoaling, and startle response behaviors in mummichog, <i>Fundulus heteroclitus,</i> resulting from exposures to the harmful algal bloom neurotoxins, brevetoxin and saxitoxin." Measuring Behavior 2005: Fifth International Conference in Methods and Techniques in Behavioral Research. Wageningen, The Netherlands.
2005	"Behavioral responses of individual and groups of killifish, <i>Fundulus heteroclitus,</i> exposed to a visual predation threat." Measuring Behavior 2005: 5 th International Conference in Methods and Techniques in Behavioral Research. Wageningen, The Netherlands.
2006	"Fish health issues in the Chesapeake Bay: An integrated vantage point." Center for Urban Environmental Research and Education, University of Maryland Baltimore County, Catonsville, MD.
2006	"Mycobacteriosis and other diseases in Chesapeake Bay fishes." Chesapeake Biological Laboratory, Solomons, MD.
2006	"Health and diagnostics of captive fish species in research." AALAS, National Capital Area Branch annual meeting, September 13, 2006 Turf Valley Conference Center, Ellicot City, MD.
2007	"Ulcerative mycosis of Chesapeake Bay Atlantic Menhaden." Regional Workshop on Fish Health in the Chesapeake Bay, sponsored by the Chesapeake Bay Foundation. National Conservation Training Center, Shepherdstown, WV.
2008	"17 β-Ethinylestradiol Alters Reproductive Behavior and Physiology in Fathead Minnows." Seminar Series in Toxicology, College of Pharmacy, University of Florida, Gainesville, FL
2008	"Emerging Contaminants in the Aquatic Environment." Water Institute Symposium, University of Florida, Gainesville, FL

2008	"Environmental Change and Fish Health." CEED Group (Changing Environments and Emerging Infectious Diseases, supported by UF International Center), University of Florida, Gainesville, FL
2008	"Stress and Environmental Mycobacteriosis: The Beginning of the Story." IFAS Program in Fisheries & Aquatic Sciences, School of Forest Resources and Conservation, University of Florida, Gainesville, FL
2008	"Environmental Mycobacteria: Fish Tell Part of the Story." Aquatic Animal Health Seminar Series, College of Veterinary Medicine, University of Florida, Gainesville, FL
2009	Fish with Tuberculosis." Public Lecture Series. Whitney Laboratory for Marine Bioscience. St. Augustine, FL
2010	"Fish Deformities and Stress in the St. Lucie Estuary System." Water Research Institute Symposium. Gainesville, FL
2010	"Environmental Mycobacteria: Implications for Human and Wildlife Diseases." University of Florida, Department of Microbiology and Cell Science, Institute of Food and Agricultural Sciences. Gainesville, FL
2011	"Public Health Efforts in Haiti; UF Panel Talks on the One Year Anniversary of the Earthquake." Radio interview by WUFT-FM, local National Public Radio Station, Gainesville, FL (aired 1/11/11 and 1/12/11).
2011	"Nontuberculous Mycobacteria in Florida Surface and Municipal Waters." Emerging Pathogens Institute Research Day.
2011	"Raising Fish and Cleaning up Drinking Water in Haiti." Television interview through WUFT-TV Channel 5, Gainesville, FL (aired 1/12/11).
2011	"Protein Production and Fish Farming in Haiti." Workshop in Tilapia Aquaculture in Haiti, International Meeting of the World Aquaculture Society, New Orleans, LA
2011	"From the Chesapeake to Okeechobee: Tales of Environmental Mycobacteria." Merial- NIH National Veterinary Scholars Symposium, Orlando, FL
2011	"Environmental Mycobacteria: Environmental Stressors, Reservoirs and Hosts." School of Natural Resources and Environment, Graduate Seminar Series, Gainesville, FL
2011	"Aquaculture-based Protein Production in Haiti: Development of Sustainable Feeds." Public Health Research Facility – Grand Opening Ceremony, Gressier, Haiti.
2012	"Bridging environmental and public health issues in the wake of the Deepwater Horizon oil spill." Duke University Superfund Research Center, Integrated Toxicology and Environmental Health Program, Washington Duke Conference Center, Durham, NC.
2012	"Multidisciplinary academic engagement to provide public health support in Haiti." Association of Public and Land-Grant Universities, Commission on International Activities, Mystic CT.

2012	"Aquaculture-based protein to support school-aged children in Haiti: Public health and societal eye-openers in a foreign land." Graduate Seminar in Food Sciences. UF Institute for Agriculture and Food Science, Gainesville, FL
2013	"Seafood safety and coastal community health." NIEHS Deepwater Horizon Oil Spill Consortium Integration Meeting. Research Triangle Park, NC
2015	"Social and Environmental Health Collaborations Supporting Community-based Research Following Deepwater Horizon Oil Spill." Social Science Environmental Health Research Institute (SSEHRI), National Institute for Environmental Health Sciences, Northeastern University, Boston, MA.
2015	"Restoration research in Apalachicola Bay: Oyster substrate and density sampling." Florida Sea Grant Coastal Science Symposium. University of Florida Straughn Center, Gainesville, FL
2016	"One Health Case Study: Bridging Environmental and Public Health Concerns Post- DWH Oil Spill in Coastal Gulf Communities." Water Institute Symposium, University of Florida, Gainesville, FL
2016	"Consumption Patterns and Analytical Toxicology of Inshore-caught Gulf Seafood: Bridging Environmental and Public Health Concerns. Aquatic Animal Health Symposium/Florida Marine Mammal Health Conference, University of Florida, Gainesville, FL.
2016	"Results from Farmworker Survey and Blood Collections: Putting Together Exposure History with Blood Pesticide Levels." Florida Farmworker's Association, Apopka, FL.
2017	"Study Outcomes and Shared Lesions: Seafood Safety Studies After Deepwater." Filipino-American Association of Pensacola, Pensacola, FL.
2017	"Safety of Inshore Gulf Seafood After Deepwater." Escambia County Seafood Safety Symposium, Pensacola, FL.
2017	"Self-employed and Uninsured in a Hazardous Work Environment: Safety and Surveillance of Gulf Seafood Workers." Escambia County Seafood Safety Symposium, Pensacola, FL.
2017	"Non-tuberculous Mycobacteria: Environmental Surveillance in Waterways and Biota from Florida and the Mid-Atlantic." National Jewish Health Center, NTM Center of Excellence, Denver, CO.
2018	"Saving Yourself: Health and Safety Support for Commercial Seafood Harvesters Along the Mississippi Gulf Coast." Annual Meeting of the Mississippi Commercial Fisheries United, Biloxi, MS.
2019	"SCCAHS Health and Safety Program to Support Gulf Coastal Oyster Farming." Third Annual Meeting of Oyster South, Orange Beach, AL

2019	"Staying Safe on the Water: Project updates from Mississippi participants and SCCAHS plans ahead." Annual Meeting, Mississippi Commercial Fisheries United, Biloxi, MS.
2020	"SCCAHS Health and Safety Program to Support Gulf Coastal Oyster Farming." Fourth Annual Meeting of Oyster South, Wilmington, NC.
2020	"Project Updates and Health and Safety for Clam Farmers 101." Annual Meeting of the Cedar Key Aquaculture Association, Cedar Key, FL.
2021	"COVID-19 Community Testing and Implementation." Training session to coordinate efforts between EPI, Medicine and the Cedar Key Research Study Arm. Cedar Key, FL.
2022	"Occupational Health and Wellness: Lesions Learned from Clam and Oyster Farmers." Annual meeting of the Florida Shellfish Aquaculture Association, Wakulla Environmental Institute, Panacea, FL
2022	"Opportunities to Address Theft and Vandalism Challenges on Coastal Shellfish Farms." Cedar Key Aquaculture Association, Cedar Key, FL.