

Deborah J. Gochfeld
Principal Scientist

National Center for Natural Products Research • University of Mississippi

P.O. Box 1848 • University, MS 38677

Tel. (662) 915-6769 • Fax. (662) 915-7062 • Email: gochfeld@olemiss.edu

RESEARCH INTERESTS

- Physiological, immunological and ecological adaptations of marine organisms to natural and anthropogenic stressors (e.g., disease, climate change [temperature, extreme storm and flooding events, ocean acidification], nutrients, sedimentation, pollutants).
- Chemical ecology, behavioral ecology, marine biotechnology.
- Biology and ecology of sponges, cnidarians, fishes and oysters.

EDUCATION

- 1997 **Ph.D.** Zoology, University of Hawaii at Manoa, Honolulu, HI
Dissertation: Mechanisms of coexistence between corals and coral-feeding butterflyfishes: territoriality, foraging behavior, and prey defense.
- 1988 **B.A.** Biology, Vassar College, Poughkeepsie, NY
Phi Beta Kappa; General Honors; Departmental Honors in Biology

RESEARCH APPOINTMENTS

- 2019- **Associate Graduate Faculty**, Division of Environmental Toxicology, Department of BioMolecular Sciences, University of Mississippi, Oxford, MS
- 2015- **Research Professor**, Division of Environmental Toxicology, Department of BioMolecular Sciences, University of Mississippi, Oxford, MS
- 2012- **Principal Scientist**, National Center for Natural Products Research, University of Mississippi, Oxford, MS
- 2008- **Visiting Scientist**, Caribbean Coral Reef Ecosystem Program, Smithsonian Marine Science Network
- 1992- **Visiting Scientist**, University of Guam Marine Laboratory, Mangilao, Guam
- 2000-2012 **Visiting Scientist**, Caribbean Marine Research Center, Lee Stocking Island, Bahamas
- 2006-2012 **Senior Scientist**, National Center for Natural Products Research, University of Mississippi, Oxford, MS
- 2001-2006 **Research Scientist**, National Center for Natural Products Research and National Institute of Undersea Science and Technology, University of Mississippi, Oxford, MS
- 1998-2001 **NIH National Research Service Award Postdoctoral Research Fellow**, Department of Pharmacognosy, University of Mississippi, Oxford, MS
- 1997-1998 **Resident Director**, Hofstra University Marine Laboratory, St. Ann's Bay, Jamaica
- 1994-1996 **Research Assistant**, Department of Zoology, University of Hawaii, Honolulu, HI
- 1996 **Environmental Consultant**, United Nations Development Program, New Ireland, Papua New Guinea
- 1991-1996 **Visiting Researcher**, Christensen Research Institute, Madang, Papua New Guinea
- 1988 **Lab Technician**, Graduate Program in Ecology, Rutgers Univ., Piscataway, NJ
- 1987 **Research Assistant**, Dept. of Biology, Vassar College, Poughkeepsie, NY
- 1984-1987 **Research Assistant**, Graduate Program in Ecology, Rutgers Univ., Piscataway, NJ

TEACHING EXPERIENCE

- 2017- **Instructor of Record**, Department of BioMolecular Sciences, University of Mississippi
Independent Research (undergraduate: PHCG 541/542), *Thesis Research* (graduate: PHCG 697)
- 2016- **Instructor of Record**, Sally McDonnell Barksdale Honors College and Department of Chemistry and Biochemistry, University of Mississippi
Independent or Thesis Research (HON 401/402, CHEM 351, CHEM 463)
- 2016- **Guest Lecturer**, Department of BioMolecular Sciences, University of Mississippi
Graduate Student Survival Strategies (BMS 601)
- 2016-2019 **Instructor**, University of the Virgin Islands, St. Thomas Campus
Developed and taught *Caribbean Sponge Identification Workshop*
- 2009-2014 **Guest Lecturer**, Department of Pharmacology, University of Mississippi, Oxford, MS
Introduction to Environmental Toxicology (PHCL 347/547)
- 2010-2011 **Instructor**, Department of Pharmacognosy, University of Mississippi, Oxford, MS
Adaptations to Stress on Coral Reefs (PHCG 541): 2-week, intensive, experiential study abroad course in the Bahamas (4 sections of 16 students)
- 2008-2009 **Guest Lecturer**, School of Engineering, University of Mississippi, Oxford, MS
Global Warming: Causes, Impacts and Solutions (ENGR 597)
- 2001-2004 **Instructor**, Department of Pharmacognosy, University of Mississippi, Oxford, MS
Marine Chemical Ecology (PHCG 620)
- 2001-2006 **Guest Lecturer**, Department of Biology, University of Alabama at Birmingham
Invertebrate Zoology (BY 255)
- 2003 **Guest Lecturer**, School of Liberal Arts, University of Mississippi, Oxford, MS
Science and Society in the Early 20th Century (LIBA 102)
- 2000 **Guest Lecturer**, University of Mississippi and American University International Programs, Semester Abroad Program, Belize
Coastal Reef Dynamics of the Belize Barrier Reef: 10 day study abroad course
- 1997-1998 **Faculty/Resident Director**, Hofstra University Marine Laboratory, St. Ann's Bay, Jamaica
Marine Biology, Tropical Biology, Coral Reef Ecology: study abroad courses for high school and college groups from the U.S., Canada and Europe, Jamaican primary school students and Elderhostel programs (~40 groups)
- 1997 **Adjunct Faculty**, Hawaii Pacific University, Honolulu, HI
Human Anatomy and Physiology
- 1988-1994 **Teaching Assistant**, Department of Zoology, University of Hawaii, Honolulu, HI
Human Anatomy and Physiology, Introductory Zoology, Marine Biology, Field Ecology, and Biometry

OTHER PROFESSIONAL AFFILIATIONS

- 2006-2014 **Affiliate Faculty**, Environmental Toxicology Graduate Program, School of Pharmacy, University of Mississippi, Oxford, MS
- 2004-2014 **Graduate Faculty**, Department of Biology, University of South Alabama, Mobile, AL
- 2002-2019 **Adjunct Professor**, Department of Biology, University of Mississippi, Oxford, MS

ADDITIONAL SPECIALIZED TRAINING

2014	Analysis of Multivariate Data from Ecology and Environmental Science using PRIMER Training Workshop, St. Petersburg, FL
2014	Divemaster, National Association of Underwater Instructors
2014	CITI Collaborative Institutional Training Initiative Course in the Responsible Conduct of Research, Office of Research and Sponsored Programs, University of Mississippi
2006	Rebreather Diver, Evolution Closed Circuit Rebreather, International Association of Nitrox and Technical Divers
2006	Advanced Enriched Air Nitrox Diver, National Association of Underwater Instructors
2005	Sponge Ecology and Taxonomy Workshop, Smithsonian Tropical Research Institute, Bocas del Toro Research Station, Panama
2005	International Workshop on the Taxonomy of Octocorals, Kerala University, Trivandrum, India
2005	National Council of University Research Administrators, International Sponsored Programs Administration Workshop, University of Mississippi, Oxford, MS
2004	International Cooperative Biodiversity Groups Network Meeting, Fogarty International Center, Bethesda, MD
2003	Edwin W. Pauley Summer Program “Assessing the Health of Pacific Corals”, Hawaii Institute of Marine Biology, University of Hawaii, Kaneohe, HI
2001	National Academy of Sciences workshop on Marine Biotechnology
2001	Sponge Taxonomy Workshop, University of Mississippi, Oxford, MS

GRANTS FUNDED

2020-2022	Mississippi-Based RESTORE Act Center of Excellence (PI) “Impacts of water quality on oyster development to inform oyster reef restoration and sustainability on the Mississippi Gulf Coast”
2018-2021	Puerto Rico Sea Grant Applied Research Competition (Co-PI) “Understanding direct and indirect impacts of land-based sources of pollution on early life history stages of corals”
2017-2020	NSF Biological Oceanography/Hurricane IRMA RAPID (PI) “RAPID: Collaborative Research: Sponge resilience in the face of multiple stressors”; Chief Scientist on 4 research cruises on the RV F.G. Walton Smith
2017-2019	Mississippi-Based RESTORE Act Center of Excellence (Co-PI) “Abiotic and biotic influences on current and historic distributions of oyster reefs”
2017-2020	NOAA/Coral Reef Conservation Program Domestic Coral Reefs (Co-PI) “Mesophotic coral ecosystems: refugia for lionfish?”
2016-2020	NSF Dimensions of Biodiversity (Co-PI) “Collaborative Research: Dimensions: Evolutionary ecology of sponges and their microbiome drives sponge diversity on coral reefs.”
2016-2018	UM Office of Research and Sponsored Programs Investment Grant Program: (PI) “Identification of a putative soft coral pathogen using direct and indirect molecular approaches.”

- 2015-2017 **NOAA/Coral Reef Conservation Program Domestic Coral Reefs**
(Co-PI) "Evaluating the impacts of increasing sponge cover on recovery and resilience of Caribbean corals."
- 2014 **NOAA National Institute of Undersea Science and Technology**
(PI) "Using proteomics to understand coral and sponge immunity to stress."
- 2012-2015 **NSF Biological Oceanography/Ecology and Evolution of Infectious Diseases**
(PI) "EAGER: Developing a model for transmission of an infectious disease of marine sponges."
- 2011-2012 **NOAA's Aquarius Reef Base**
(Co-PI) "Coral reef landscape response to ocean acidification."
- 2010 **Northern Gulf Institute**
(Co-PI) "NIUST Deepwater Horizon Oil Spill Multi-Task Research Proposal: Impacts of Oil Contamination to Seagrass Beds: Proteomic Responses."
- 2010-2014 **NSF Biological Oceanography**
(PI) "Collaborative Research: Host-environment-pathogen interactions in a model coral disease system."
- 2009-2010 **NOAA Ocean Exploration**
(Co-PI) "Ocean exploration and biotechnology on Pacific deep corals."
- 2009-2013 **NOAA National Institute of Undersea Science and Technology**
(PI) "Using proteomics to understand coral and sponge immunity to stress."
- 2008-2010 **Smithsonian Marine Science Network**
(Co-PI) "Prevalence of *Aplysina* Red Band Syndrome at Carrie Bow Cay, Belize."
- 2007-2011 **NSF Biological Oceanography**
(PI) "Collaborative Research: *Aplysina* Red Band Syndrome: Investigating the etiology, pathogenesis, and ecology of an emerging marine disease."
- 2007-2008 **NASA**
(Co-PI) "Modeling seagrass community change using remote sensing and real-time instrument packages."
- 2007 **University of Mississippi Faculty Research Program**
(PI) "Developing molecular techniques for sponge pathogen identification."
- 2006-2011 **NOAA National Institute of Undersea Science and Technology**
(PI) "Developing molecular tools to assess disease resistance in corals and sponges."
- 2006-2008 **NOAA Ocean Exploration**
(Co-PI) "New ocean resources: Exploration and drug discovery in the Twilight Zone." (Selected as "Signature Expedition")
- 2006-2007 **Nova Southeastern University President's Faculty Research Grant**
(Co-PI) "Ultrastructural analysis in elucidation of disease in reef-building corals."
- 2005-2006 **NOAA Hawaii Coral Reef Initiative**
(PI) "Chemical mechanisms of disease resistance in Hawaiian corals."
- 2004-2006 **NOAA National Institute of Undersea Science and Technology**
(PI) "Chemical ecology of the scleractinian coral *Siderastrea siderea*: Chemical resistance to disease and associated microbial communities."
- 2003-2005 **NIH International Cooperative Biodiversity Group Planning Grant**
(Co-PI) "New drugs from marine natural resources of Jamaican reefs."
- 2003-2004 **NOAA National Institute of Undersea Science and Technology**
(PI) "Coral disease and chemical resistance mechanisms."

- 2002-2004 **NOAA National Undersea Research Program/Caribbean Marine Research Center**
(Co-PI) "Drug development from marine resources of the Bahamas."
- 2002-2003 **NOAA National Institute of Undersea Science and Technology**
(PI) "The role of host chemical resistance in coral diseases."
- 2002-2003 **University of Mississippi Faculty Small Grants Program**
(PI) "Antimicrobial activity of scleractinian corals."
- 2002 **NOAA National Undersea Research Program/Caribbean Marine Research Center Program Development Grant**
(PI) "Coral diseases and chemical resistance mechanisms."
- 2001 **University of Mississippi Associates and Partners Grant Program**
(PI) Equipment grant to purchase a digital video camera.
- 1998-2001 **NIH National Research Service Award Postdoctoral Fellowship**
(PI) "Antiinfective compounds from Pacific soft corals."
- 1995 **Sigma Delta Epsilon/Graduate Women in Science Vessa Notchev Fellowship**
(PI) "Chemical defenses in the hard coral *Porites compressa*."
- 1994 **American Museum of Natural History Lerner-Gray Fund for Marine Research**
(PI) "Determinants of territory size in a specialist coral-feeding butterflyfish."
- 1994 **Sigma Xi Grant-in-Aid of Research**
(PI) "Determinants of territory size in a specialist coral-feeding butterflyfish."
- 1993 **Western Society of Malacologists**
(PI) "Control of populations of the coral-feeding nudibranch, *Phestilla sibogae*, by fish and crustacean predators."
- 1993 **Conchologists of America**
(PI) "Control of populations of the coral-feeding nudibranch, *Phestilla sibogae*, by fish and crustacean predators."
- 1991 **Research Corporation of the University of Hawaii Research Fellowship**
(PI) "Mechanisms of coexistence between corals and coral-feeding butterflyfishes."
- 1991 **Sigma Xi Grant-in-Aid of Research**
(PI) "Inducible defenses in the hard coral, *Porites compressa*."
- 1991 **University of Hawaii Edmondson Research Grant**
(PI) "Inducible defenses in the hard coral, *Porites compressa*."
- 1991 **American Museum of Natural History Lerner-Gray Fund for Marine Research**
(PI) "Inducible defenses in the hard coral, *Porites compressa*."

PUBLICATIONS

(* denotes student/postdoc authors)

Edited Volumes

- 2018 **Gochfeld DJ, Herrlinger TJ** (eds) *Diving for Science 2018: Proceedings of the American Academy of Underwater Sciences 37th Scientific Symposium, Tahoe City, CA. Dauphin Island, AL: American Academy of Underwater Sciences. 124 pp.*
- 2017 **Gochfeld DJ, Wright CS** (eds) *Diving for Science 2017: Proceedings of the American Academy of Underwater Sciences 36th Scientific Symposium, Alpena, MI. Dauphin Island, AL: American Academy of Underwater Sciences. 92 pp.*

Invited papers and chapters (peer-reviewed):

- 2019 Pomponi SA, Diaz MC, Van Soest RWM, Bell LJ, Busutil L, **Gochfeld DJ**, Kelly M, Slattery M. Sponges. Pp 563-588 in Loya Y, Puglise KA, Bridge TCL (eds) Mesophotic Coral Ecosystems. Coral Reefs of the World, vol 12. Springer, Cham
- 2016 Mydlarz LD, *Fuess L, *Mann W, *Pinzón JH, **Gochfeld DJ**. Cnidarian immunity: from genomes to phenomes. Pp 441-466 in Goffredo S, Dubinsky Z (eds) The Cnidaria, past, present and future: The world of Medusa and her sisters. Springer, Switzerland
- 2012 Slattery M, **Gochfeld DJ**. Chemically mediated competition and host-pathogen interactions among marine organisms. Pp 823-859 in Fattorusso E, Gerwick WH, Tagliatalata-Scafati O (eds) Handbook of Marine Natural Products. Springer, New York
- 2006 **Gochfeld DJ**, Olson JB, Slattery M. Colony versus population variation in susceptibility and resistance to Dark Spot Syndrome in the Caribbean coral *Siderastrea siderea*. Diseases of Aquatic Organisms 69:53-65
- 2003 Slattery M, **Gochfeld DJ**. Chemical ecology of marine bacteria and algae. Pp 265-287 in Hardege JD (ed) Chemical Ecology. Encyclopedia of Life Support Systems (EOLSS) Publishers/UNESCO, Oxford, UK [<http://www.eolss.net>]

Peer-reviewed papers:

- In review Barnett AF*, Gledhill JH*, Grifitt RJ, Slattery M, Willett KL, **Gochfeld DJ**. Combined and independent effects of hypoxia and tributyltin and on mRNA expression and physiology of the Eastern oyster *Crassostrea virginica*. Marine Environmental Research
- In review Gledhill J*, Barnett AF*, Slattery M, Willett KL, Easson G, Showalter Otts S, **Gochfeld DJ**. Mass mortality of Eastern Oysters (*Crassostrea virginica*) in the western Mississippi Sound following unprecedented Mississippi River flooding in 2019. Marine Biology.
- 2020 **Gochfeld DJ**, Olson JB, *Chaves Fonnegra A, Olson JB, Smith T, Ennis R, Brandt ME. Impacts of Hurricanes Irma and Maria on coral reef sponges in St. Thomas, U.S. Virgin Islands. Estuaries and Coasts. <https://doi.org/10.1007/s12237-020-00694-4>
- 2019 **Gochfeld DJ**, Diaz MC, Renegar DA, Olson JB. Histological and ultrastructural features of *Aplysina cauliformis* by affected *Aplysina* red band syndrome. Invertebrate Biology 138:e12247. <https://doi.org/10.1111/ivb.12247>
- 2019 Brandt ME, *Olinger LK, *Chaves-Fonnegra A, Olson JB, **Gochfeld DJ**. Coral recruitment is impacted by the presence of a sponge community. Marine Biology 166:49. doi: 10.1007/s00227-019-3493-5
- 2017 Slattery M, Lesser MP, **Gochfeld DJ**, Diaz MC, Kintzing E. Biogeographic connectivity of Caribbean mesophotic sponge communities. In: Gochfeld DJ, Wright CS (eds) Diving for Science 2017: Proceedings of the American Academy of Underwater Sciences 36th Scientific Symposium, Alpena, MI. pp 67-70

- 2016 Slattery M, **Gochfeld DJ**. Butterflyfishes exhibit species-specific responses to changes in Pacific coral reef benthic communities. *Marine Biology* 163:246-258
- 2016 *Jarrett JK, **Gochfeld DJ**, Lesser MP. Aposematic coloration does not deter corallivory by fish on the coral *Montastraea cavernosa*. *Coral Reefs* 35:883-887
- 2016 Slattery M, **Gochfeld DJ**, Diaz MC, Thacker RW, Lesser MP. Variability in chemical defense across a shallow to mesophotic depth gradient in a Caribbean sponge. *Coral Reefs* 35:11-22.
- 2016 *Maldonado A, *Johnson A, **Gochfeld D**, Slattery M, Ostrander GK, Bingham J-P, Schlenk D. Hard coral (*Porites lobata*) extracts and homarine on cytochrome P450 expression in Hawaiian butterflyfishes with different feeding strategies. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology* 179:57-63.
- 2015 **Gochfeld DJ**, *Ankisetty S, Slattery M. Proteomic profiling of healthy and diseased hybrid soft corals (*Sinularia maxima x polydactyla*). *Diseases of Aquatic Organisms* 116:133-141.
- 2014 *Easson C, Slattery M, *Baker D, **Gochfeld DJ**. Complex ecological associations: evidence for competition and facilitation in a sponge-algal interaction. *Marine Ecology Progress Series* 507:153-167
- 2014 Olson JB, Thacker RW, **Gochfeld DJ**. Molecular community profiling reveals impacts of time, space, and disease status on the bacterial community associated with the Caribbean sponge *Aplysina cauliformis*. *FEMS Microbiology Ecology* 87:268-279
- 2013 *Easson CG, Slattery M, Momm HG, Olson JB, Thacker RW, **Gochfeld DJ**. Exploring individual- to population-level impacts of disease on coral reef sponges: using spatial analysis to assess the fate, dynamics, and transmission of *Aplysina* Red Band Syndrome (ARBS). *PLoS One* 8(11): e79976 (doi:10.1371/journal.pone.0079976)
- 2013 *Ankisetty S, Khan S, Avula B, **Gochfeld D**, Khan I, Slattery M. Chlorinated didemnins from the tunicate *Trididemnum solidum*. *Marine Drugs* 11:4478-4486
- 2013 Slattery M, *Renegar DA, **Gochfeld DJ**. Direct and indirect effects of a new disease of alcyonacean soft corals. *Coral Reefs* 32:879-889
- 2013 *Marsh-Hunkin KE, **Gochfeld DJ**, Slattery M. Antipredator responses to invasive lionfish, *Pterois volitans*: interspecific differences in cue utilization by two coral reef gobies. *Marine Biology* 160:1029-1040.
- 2013 Slattery M, **Gochfeld DJ**, *O'Donahue LRK, *Easson CG. Facilitation of coral reef biodiversity and health by cave sponge communities. *Marine Ecology Progress Series* 476:71-86
- 2012 Slattery M, *Ankisetty S, *Coralles J, *Marsh-Hunkin KE, **Gochfeld DJ**, Willett KL, Rimoldi J. Marine proteomics: A critical look at an emerging technology. *Journal of Natural Products* 75:1833-1877
- 2012 **Gochfeld DJ**, *Easson CG, *Freeman CJ, Thacker RW, Olson JB. Disease and nutrient enrichment as potential stressors on the Caribbean sponge *Aplysina cauliformis* and its bacterial symbionts. *Marine Ecology Progress Series* 456:101-111
- 2012 **Gochfeld DJ**, *Kamel HN, Olson JB, Thacker RW. Trade-offs in defensive metabolite production but not ecological function in healthy and diseased sponges. *Journal of Chemical Ecology* 38:451-462
- 2012 *Rohde S, **Gochfeld DJ**, *Ankisetty S, Avula B, Schupp P, Slattery M. Spatial variability in secondary metabolites of the sponge *Stylissa massa*. *Journal of Chemical Ecology* 38:463-475

- 2012 **Gochfeld DJ**, *Easson CG, Slattery M, Thacker RW, Olson JB. Population dynamics of a sponge disease on Caribbean reefs. In: Stellar DL, Lobel LK (eds), Proceedings of the American Academy of Underwater Sciences 31st Scientific Symposium, Monterey, CA. pp 125-128
- 2011 **Gochfeld DJ**, *Pappas KE, *Lee S, Aeby GS. Variability in antibacterial activity in Hawaiian corals. In: Pollock NW (ed) Diving for Science 2011. Proceedings of the American Academy of Underwater Sciences 30th Symposium. Portland, ME. pp 137-139
- 2010 *Ankisetty S, **Gochfeld DJ**, Diaz MC, Khan S, Slattery M. Chemistry of the deep reef Caribbean sponges *Plakortis angulospiculatus* and *Plakortis halichondrioides*. Journal of Natural Products 73:1494-1498
- 2010 **Gochfeld DJ**. Territorial damselfishes facilitate survival of rare corals by providing an associational refuge from predation. Marine Ecology Progress Series 398:137-148
- 2009 *Renegar DA, Blackwelder PL, *Miller JD, **Gochfeld DJ**, Moulding AL. Ultrastructural and histological analysis of Dark Spot Syndrome in *Siderastrea siderea* and *Agaricia agaricites*. Proceedings of the 11th International Coral Reef Symposium, Ft. Lauderdale, Florida, July 2008: 185-189
- 2009 **Gochfeld DJ**, Olson JB. A novel feeding behavior by an ambush predator on toxic prey. Coral Reefs 28:155
- 2008 Slattery M, *Kamel HN, *Ankisetty S, **Gochfeld DJ**, *Hoover CA, Thacker RW. Hybrid vigor in a Pacific soft coral community. Ecological Monographs 78:423-443
- 2008 **Gochfeld DJ**, Aeby GS. Antimicrobial chemical defenses in Hawaiian corals: possible protection from disease? Marine Ecology Progress Series 362:119-128
- 2007 **Gochfeld DJ**, *Schlöder C, Thacker RW. Sponge community structure and disease prevalence on coral reefs in Bocas del Toro, Panama. In: Custódio MR, Lõbo-Hajdu G, Hajdu E, Muricy G (eds) *Porifera Research: Biodiversity, Innovation, and Sustainability*. Série Livros 28. Museu Nacional, Rio de Janeiro. Pp 335-343
- 2006 Olson J, **Gochfeld D**, Slattery M. *Aplysina* red band syndrome: a new threat to Caribbean sponges. Diseases of Aquatic Organisms 71:163-168
- 2006 Quinn NJ, **Gochfeld D**, Hamann MT, Slattery M, Walker L, Kojis BL. Documenting and conserving biodiversity of Jamaican coral reefs while exploring for pharmacologically interesting natural products. Proceedings of the 10th International Coral Reef Symposium 3:800-809
- 2005 Slattery M, **Gochfeld DJ**, *Kamel H. Hybrid soft coral aquaculture to produce novel "Pharmaceutical Factories". Global Aquaculture Advocate 8:42-43
- 2004 **Gochfeld DJ**. Predation-induced morphological and behavioral defenses in a hard coral: implications for foraging behavior of coral-feeding butterflyfishes. Marine Ecology Progress Series 267:145-158
- 2003 **Gochfeld DJ**, *El Sayed KA, *Yousaf M, *Hu J, Bartyzel P, Dunbar DC, *Wilkins SP, Zjawiony JK, Schinazi RF, Wirtz SS, Tharnish PM, Hamann MT. Marine natural products as lead anti-HIV agents. Mini Reviews in Medicinal Chemistry. 3:401-424
- 2001 **Gochfeld DJ**, Hamann MT. The isolation and biological evaluation of filiformin, plakortide F and plakortone G from the Caribbean sponge *Plakortis* sp. Journal of Natural Products 64:1477-1479

- 2001 **Gochfeld DJ**, *Minton DT. When to move and where to go: movement behavior of the Caribbean littorinid *Cenchritis muricatus*. *Journal of Shellfish Research* 20:447-452
- 2001 *Minton DT, **Gochfeld DJ**. Is life on the tropical shore really so hard?: the role of abiotic factors in structuring a supralittoral molluscan assemblage. *Journal of Shellfish Research* 20:477-483
- 1999 Burger J, **Gochfeld DJ**, *Minton D, Murray BG, Pyle P, *Seto N, Smith D, Gochfeld M. Metals in feathers of Bonin Petrel, Christmas Shearwater, Wedge-tailed Shearwater and Red-tailed Tropicbird in the Hawaiian Islands, Northern Pacific. *Environmental Monitoring and Assessment* 59:343-358
- 1997 **Gochfeld DJ**, Aeby GS. Control of populations of the coral-feeding nudibranch, *Phostilla sibogae*, by coral reef fishes and crustaceans. *Marine Biology* 130:63-70
- 1992 Burger J, Cooper K, Saliva J, **Gochfeld D**, Lipsky D, Gochfeld M. Mercury bioaccumulation in organisms from three Puerto Rican estuaries. *Environmental Monitoring and Assessment* 22:181-197
- 1992 Burger J, Cooper K, **Gochfeld DJ**, Saliva JE, Safina C, Lipsky D, Gochfeld M. Dominance of *Tilapia mossambica*, an introduced fish species, in three Puerto Rican estuaries. *Estuaries* 15:239-245
- 1991 Burger J, Gochfeld M, Saliva JE, **Gochfeld DJ**, Gochfeld DA, Morales H. Habitat use by nesting Zenaida doves (*Zenaida aurita*) in Puerto Rico: avoidance of islands without nesting seabirds. *Ornis Scandinavica* 22:367-374
- 1991 **Gochfeld DJ**. Energetics of a predator-prey interaction: corals and coral-feeding fishes. *Pacific Science* 45:246-256
- 1989 Burger J, Gochfeld M, Saliva JE, **Gochfeld D**, Gochfeld D, Morales H. Antipredator behaviour in nesting Zenaida doves (*Zenaida aurita*): parental investment or offspring vulnerability. *Behaviour* 111:129-143
- 1989 Burger J, Gochfeld M, **Gochfeld DJ**, Saliva J. Nest site selection in Zenaida dove (*Zenaida aurita*) in Puerto Rico. *Biotropica* 21:244-249
- 1988 Gochfeld M, Burger J, Saliva J, **Gochfeld D**. Herald petrel new to the West Indies. *American Birds* 42:1254-1258

Published reports (not peer-reviewed):

- 2008 Starmer J, Asher J, Castro F, **Gochfeld D**, Gove J, Hall A, Houk P, Keenan E, Miller J, Moffit R, Nadon M, Schroeder R, Smith E, Trianni M, Vroom P, Wong K, Yuknavage K. The state of coral reef ecosystems of the Commonwealth of the Northern Mariana Islands. In: Waddell JE, Clarke AM (eds) *The State of Coral Reef Ecosystems of the United States and Pacific Freely Associated States: 2008*. NOAA Technical Memorandum NOS NCCOS 73. NOAA/NCCOS Center for Coastal Monitoring and Assessment's Biogeography Team. Silver Spring, MD. pp 437-463
- 1998 **Gochfeld DJ**. Annotated guide to fishes in nearshore reef habitats of St. Ann's Bay, Jamaica. Hofstra University Marine Laboratory, Publication No. 24A. 44 pp
- 1996 **Gochfeld DJ**. Coral reefs and associated fishes of southern New Ireland. In: Hair C (ed) *Lak Marine Survey: An Ecological Assessment of the Coral Reef and Near Shore Environments of Southern New Ireland, Papua New Guinea*. Dept. of Environment

- and Conservation, United Nations Development Programme OPS-PNG/93/G31. Pp 36-52
- 1995 Hopper D, **Gochfeld D**. Tuna cannery threatens coral reef in Papua New Guinea. Reef Encounter 17:13

Other products:

- 2018 **Gochfeld DJ**. Common Shallow Sponges of St. Thomas, USVI (2nd edition). Underwater field identification guide.
- 2016 **Gochfeld DJ**. Common Shallow Sponges of St. Thomas, USVI. Underwater field identification guide.

INVITED SEMINARS

- 2019 University of Texas Marine Science Institute, Port Aransas, TX
- 2019 Symposium on “Chemical responses to the biotic and abiotic environment by early diverging metazoans revealed in the post-genomic age”, Society for Integrative and Comparative Biology, Tampa, FL
- 2018 Gulf Coast Research Lab, University of Southern Mississippi, Ocean Springs, MS
- 2016 Infectious Disease Seminar Series, University of Mississippi, Oxford, MS
- 2013 Center for Marine and Environmental Studies, University of the Virgin Islands, St. Thomas, USVI
- 2011 Department of Microbiology, University of Hawaii at Manoa, Honolulu, HI
- 2010 Department of Pharmacognosy, University of Mississippi, Oxford, MS
- 2010 University of Guam Marine Laboratory, Mangilao, Guam
- 2008 Department of Biology, University of Mississippi, Oxford, MS
- 2007 Mississippi Junior Sciences and Humanities Symposium, University of Mississippi, Oxford, MS
- 2005 Panel entitled “Doing Science: Focus on Undergraduate Involvement in Scientific Research”, Sigma Xi/Honors College/Office of National Scholarship Advisement Panel, University of Mississippi, Oxford, MS
- 2005 University of Guam Marine Laboratory, Mangilao, Guam
- 2005 Caribbean Marine Research Center, Lee Stocking Island, Bahamas
- 2004 Mini-Symposium on Marine Science, Division of Science and Math, University of the Virgin Islands, St. Thomas, U.S.V.I.
- 2004 University of Guam Marine Laboratory, Mangilao, Guam
- 2003 Edwin W. Pauley Summer Program on Assessing the Health of Pacific Corals, Hawaii Institute of Marine Biology, Kaneohe, HI
- 2003 University of Mississippi-NOAA/NURP workshop on Marine Resources of the Belize Barrier Reef, University of Belize, Belmopan, Belize
- 2003 Joint Chemistry-Biology Merck-AAAS Undergraduate Research Program Seminar Series, Department of Biological Sciences, University of South Alabama, Mobile, AL
- 2003 Caribbean Marine Research Center, Lee Stocking Island, Bahamas
- 2002 Coastal Resources Management Division, Saipan
- 2001 Department of Biology, University of Mississippi, Oxford, MS
- 2001 Department of Marine and Wildlife Resources, Pago Pago, American Samoa
- 2000 Department of Pharmacognosy, Suez Canal University, Ismailia, Egypt

- 2000 Department of Biology, Florida Atlantic University, Boca Raton, FL
1999 Department of Pharmacognosy, University of Mississippi, Oxford, MS
1999 Department of Marine Sciences, Eckerd College, St. Petersburg, FL
1999 Department of Biology, Providence College, Providence, RI
1999 Department of Biology and Geology, University of South Carolina at Aiken, SC
1997 International Year of the Reef Natural History Lecture Series, Waikiki Aquarium, Honolulu, HI
1995 Department of Pharmacognosy, University of Mississippi, Oxford, MS
1990 Edwin W. Pauley Summer Program on Behavioral Ecology of Marine Organisms, Hawaii Institute of Marine Biology, Kaneohe, HI

HONORS

- 2019 **Invited Symposium Speaker**, Society for Integrative and Comparative Biology, Tampa, FL
2018 **Research feature**, American Academy of Underwater Sciences Member Profile on AAUS Facebook, Instagram and Twitter platforms; University of Mississippi Department of BioMolecular Sciences Facebook and Twitter platforms
2018 **Editor**, Diving for Science 2018: Proceedings of the American Academy of Underwater Sciences 37th Scientific Symposium
2017 **Editor**, Diving for Science 2017: Proceedings of the American Academy of Underwater Sciences 36th Scientific Symposium
2016 **University of Mississippi Delegate**, National Association of Marine Laboratories
2016 **Symposium Chair**, The Role of Macro-invertebrates on Coral Reefs, International Coral Reef Symposium, Honolulu, HI
2015 **Grand Prize Winner**, Inaugural UM School of Pharmacy Photo Contest
2014 **Invited Speaker**, 39th Eastern Fish Health Workshop, Shepherdstown, WV
2008 **Invited Speaker**, 33rd Eastern Fish Health Workshop, Atlantic Beach, NC
2007 **Keynote Speaker**, Mississippi Junior Sciences and Humanities Symposium, University of Mississippi, Oxford, MS
2007 **Signature Exploration**, Featured on NOAA's Ocean Exploration website: <https://oceanexplorer.noaa.gov/explorations/07twilightzone/welcome.html>
2005-2006 **President**, Sigma Xi Society, University of Mississippi Chapter, Oxford, MS
2004-2005 **President Elect**, Sigma Xi Society, University of Mississippi Chapter, Oxford, MS
2003 **Invited Speaker**, Joint Chemistry-Biology Merck-AAAS Undergraduate Research Program Seminar Series, University of South Alabama, Mobile, AL
1998-2001 **National Research Service Award Fellowship**, National Institutes of Health
1993 **Best Paper Award**, Albert L. Tester Memorial Symposium, University of Hawaii, Honolulu, HI
1992 **Graduate Student Organization Travel Award**, University of Hawaii, Honolulu, HI
1991 **Research Fellowship**, Research Corporation of University of Hawaii, Honolulu, HI
1989 **Sigma Xi**, University of Hawaii, Honolulu, HI
1988 **Phi Beta Kappa**, Vassar College, Poughkeepsie, NY
1988 **Departmental Honors in Biology**, Vassar College, Poughkeepsie, NY
1988 **General Honors**, Vassar College, Poughkeepsie, NY

PROFESSIONAL AFFILIATIONS

- American Academy of Underwater Sciences
- American Association of University Women
- American Society of Pharmacognosy
- Coastal and Estuarine Research Federation
- International Society for Reef Studies
- Mississippi Academy of Sciences
- National Association of Marine Laboratories (Appointed UM Delegate 2016)
- Phi Beta Kappa
- Sigma Xi – The Scientific Research Society (UM Chapter: President Elect 2004-2005; President 2005-2006; Past President 2006-2008)
- Society of Environmental Toxicology and Chemistry

STUDENT MENTORING

Postdoctoral:

- 2018 Dr. Andia Chaves-Fonnegra [currently Assistant Professor, Florida Atlantic University and Harbor Branch Oceanographic Institution]
- 2010-2012 Dr. K. Erica Marsh-Hunkin [currently Nurse Practitioner, Clarksville, TN]
- 2006-2010 Dr. Haidy Kamel [currently Associate Professor, Cuyahoga Community College, OH]
- 2005-2006 Dr. Jesse Miller [currently Product Development Specialist, 3M]
- 2004-2008 Dr. Sridevi Ankisetty

Graduate:

- 2019- Mr. Brad Arrington: M.S. Center for Marine and Environmental Sciences, University of the Virgin Islands (committee member). Expected completion: 2021
- 2017- Ms. Amelia Clayshulte: Ph.D., Department of BioMolecular Sciences, Division of Environmental Toxicology, University of Mississippi (committee member). Expected completion: 2021
- 2017-2019 Ms. Ann Fairly Barnett: M.S., Department of BioMolecular Sciences, Division of Environmental Toxicology, University of Mississippi (advisor). [currently Associate R&D Chemist, Environmental Toxicology, University of Mississippi]
- 2017-2019 Mr. James Gledhill: M.S., Department of BioMolecular Sciences, Division of Environmental Toxicology, University of Mississippi (committee member). [currently at Centers for Disease Control]
- 2012-2015 Ms. Melinda Ansley: M.S., Environmental Toxicology Graduate Program, University of Mississippi (advisor). [currently Environmental Scientist, Mississippi Department of Environmental Quality]
- 2008-2013 Mr. Cole Easson: Ph.D., Environmental Toxicology Graduate Program, University of Mississippi (co-advisor). [currently Lecturer, Middle Tennessee State University]
- 2009-2012 Mr. Chris Freeman: Ph.D., Department of Biology, University of Alabama at Birmingham (committee member). [currently Adjunct Faculty, College of Charleston]

- 2010-2012 Mr. Sylvester Lee: M.S., Environmental Toxicology Graduate Program, University of Mississippi (co-advisor). [won University of Mississippi Alumni of the Year 2019; named Forbes 30 under 30 recipient 2018; Ole Miss Outstanding Young Alumni Award 2019; currently CEO of Emerge Inc.; formerly National Park Service, Hawaii]
- 2008-2010 Ms. Lindsay Krentz-O'Donahue: M.S. Environmental Toxicology Graduate Program, University of Mississippi (committee member). [currently Laboratory Technician, Los Angeles County Sanitation District]
- 2007-2010 Ms. Brenna Ehmen: M.S., Department of Biological Sciences, University of South Alabama (committee member). [currently Cytogenetic Technician, UAB Medicine]
- 2001-2003 Ms. K. Erica Marsh: M.S., Department of Biology, University of Mississippi (committee member). [Ph.D. North Carolina State University]

Undergraduate:

- 2019- Ms. Mackenzie Reilly: Honors Thesis, Sally McDonnell Barksdale Honors College, University of Mississippi (advisor). Expected completion: 2020.
- 2018-2019 Mr. Coleman Sisson: Honors Thesis, Sally McDonnell Barksdale Honors College, University of Mississippi (advisor). [currently University of Mississippi School of Pharmacy, Jackson, MS]
- 2017-2018 Ms. Carley Cole: Honors Thesis, Sally McDonnell Barksdale Honors College, University of Mississippi (advisor). [currently University of Mississippi School of Dentistry, Jackson, MS]
- 2015-2017 Ms. Claire Vickers: Honors Thesis, Sally McDonnell Barksdale Honors College, University of Mississippi (advisor). [currently University of Mississippi School of Pharmacy, Jackson, MS]
- 2015-2017 Ms. Sarah Criddle: Honors Thesis, Sally McDonnell Barksdale Honors College, University of Mississippi (advisor). [currently University of Virginia Medical School]
- 2014-2016 Ms. Savannah Stockton: Honors Thesis, Sally McDonnell Barksdale Honors College, University of Mississippi (advisor). [currently University of Mississippi Medical School, Jackson, MS]
- 2008-2010 Ms. Katerina Pappas: Honors Thesis, Sally McDonnell Barksdale Honors College, University of Mississippi (advisor). [currently Pharmacist, Birmingham, AL]
- 2009-2010 Ms. Mallory Johnson: Honors Thesis, Sally McDonnell Barksdale Honors College, University of Mississippi (committee member). [currently Pharmacist, Jackson, MS]
- 2004-2005 Mr. Jeffrey Purcell: NSF Summer Research Internship for Undergraduates. [Graduate of the University of the Virgin Islands]

PRESENTATIONS AT SCIENTIFIC MEETINGS

(* denotes student/postdoc authors)

International:

- 2019 Willett KL, *Gledhill J, *Barnett AF, **Gochfeld DJ**, Griffitt RJ, Slattery M. Stress responses in Eastern oyster (*Crassostrea virginica*) exposed to hypoxic conditions. Pollution Responses in Marine Organisms 20th Meeting, Charleston, SC
- 2019 **Gochfeld DJ**. Phenotypic plasticity in chemical defense in sponges and corals. Society for Integrative and Comparative Biology, Tampa, FL. Invited Symposium Speaker

- 2019 *Pankey MS, *Macartney KJ, *Gastaldi M, **Gochfeld DJ**, Slattery M, Plachetzki DC, Lesser MP. Coincident shifts in symbiotic communities underlie convergent host evolution. Society for Integrative and Comparative Biology, Tampa FL
- 2018 **Gochfeld DJ**, Slattery M, Lesser MP, Diaz MC, Kintzing E. Connectivity of Caribbean mesophotic sponge communities. Mesophotic Coral Reef Ecosystems Gordon Research Conference, Lewes, ME
- 2017 **Gochfeld DJ**, *Stockton S, *Vickers MC, *Easson CG, Slattery M. Geographic variability in antibacterial chemical defenses among branching morphotypes of Caribbean *Aplysina*. 10th World Sponge Conference, Galway, Ireland
- 2017 **Gochfeld DJ**, Diaz C, Renegar A, Olson J. Histological and ultrastructural features of *Aplysina cauliformis* infected with *Aplysina* Red Band Syndrome. 10th World Sponge Conference, Galway, Ireland
- 2017 Olson JB, **Gochfeld DJ**, *Easson CG. Infection with *Aplysina* Red Band Syndrome results in biochemical and bacterial community changes to the holobiont. 10th World Sponge Conference, Galway
- 2017 Slattery M, Lesser MP, **Gochfeld DJ**, Diaz MC, Kintzing E. Biogeographic connectivity of sponge communities in the tropical Atlantic. 10th World Sponge Conference, Galway
- 2017 *Rabsatt T, *Chaves-Fonnegra A, Brandt M, *Olinger L, **Gochfeld D**, Olson J. An analysis of the relationship between sponge cover and coral recruitment. 10th World Sponge Conference, Galway, Ireland
- 2017 Olson JB, **Gochfeld DJ**, *Easson CE. Response of the sponge holobiont to infection with *Aplysina* Red Band Syndrome. International Society on Microbial Ecology, Montreal, Canada
- 2016 **Gochfeld DJ**, Olson JB, *Easson CG. Biochemical and bacterial community changes during the course of pathogenesis in the sponge disease *Aplysina* Red Band Syndrome. International Coral Reef Symposium, Honolulu, HI
- 2016 Slattery M, **Gochfeld DJ**. Butterflyfishes exhibit species-specific responses to changes in Pacific soft coral communities. International Coral Reef Symposium, Honolulu, HI
- 2014 Olson JB, **Gochfeld DJ**. *Aplysina* Red Band Syndrome alters bacterial community composition in the host sponge. 2nd International Symposium on Sponge Microbiology, Baltimore, MD
- 2012 Olson JB, *Jenny MJ, **Gochfeld DJ**, Thacker RW. Effects of disease on the composition of sponge-associated bacterial communities. International Symposium on Microbial Ecology, Copenhagen, Denmark
- 2012 **Gochfeld DJ**, *Easson CG, Olson JB, Thacker RW. Ecological implications of an infectious sponge disease on Caribbean reefs. 11th International Coral Reef Symposium, Cairns, Australia
- 2012 **Gochfeld DJ**, *Lee S, Aeby GS. Variability in antimicrobial chemical resistance to *Montipora* White Syndrome. 11th International Coral Reef Symp., Cairns, Australia
- 2011 *Coralles J, *Lee S, **Gochfeld DJ**, Slattery M, Boettcher A, Willett KL. Impact of oil contaminants from the Deepwater Horizon Oil Spill in seagrasses of the Mississippi-Alabama coast. International Symposium on Pollution Responses in Marine Organisms Meeting, Long Beach, CA

- 2010 Olson JB, *Gao X, **Gochfeld DJ**, Thacker RW. Impact of disease on sponge-associated bacterial communities. International Symposium on Microbial Ecology, Seattle, WA
- 2010 Thacker RW, Olson JB, **Gochfeld DJ**. Facultative mutualists and opportunistic colonists: symbiotic cyanobacteria associated with the marine sponge *Aplysina cauliformis*. International Symposium on Microbial Ecology, Seattle, WA
- 2010 **Gochfeld DJ**, *Pappas KE, Aeby GS. Disease resistance in corals: implications for production of antibacterial chemical defenses. International Marine Biotechnology Conference, Qingdao, China
- 2010 **Gochfeld DJ**, *Easson CG, *Freeman C, Thacker RW, Olson JB. Impacts of nutrient enrichment and disease on the Caribbean sponge *Aplysina cauliformis* and its cyanobacterial symbionts. International Sponge Symposium, Girona, Spain
- 2010 **Gochfeld DJ**, *Kamel HN, Olson JB, Thacker RW. Altered secondary metabolite production in *Aplysina cauliformis* in response to infection by *Aplysina* Red Band Syndrome. International Sponge Symposium, Girona, Spain
- 2010 *Easson C, **Gochfeld DJ**, Slattery M, Olson JB, Thacker RW. Mapping impacts of disease on sponge communities using Geographic Information Systems (GIS). International Sponge Symposium, Girona, Spain
- 2010 Villamizar E, Díaz MC, Rützler K, Thacker RW, **Gochfeld DJ**, Olson JB. Evaluation and Monitoring of the Sponge Community Health Condition in Carrie Bow Reef, Belize. International Sponge Symposium, Girona, Spain
- 2010 Diaz MC, van Soest RWM, **Gochfeld DJ**, Olson JB, Slattery M, Lesser MP. A checklist from shallow and mesophotic Marine sponges from Little Cayman Island. International Sponge Symposium, Girona, Spain
- 2010 Olson JB, *Gao X, **Gochfeld DJ**, Thacker RW. Infection by *Aplysina* Red Band Syndrome alters sponge-associated bacterial communities. International Sponge Symposium, Girona, Spain
- 2010 Slattery M, **Gochfeld DJ**, Diaz MC, Lesser MP, Olson JB. Sponge biodiversity of mesophotic coral reefs and their biotechnology implications. International Sponge Symposium, Girona, Spain
- 2009 Thacker RW, **Gochfeld DJ**, Olson JB. Evolution of parasitism and mutualism in sponge-cyanobacteria symbioses. 6th International Symbiosis Society Congress, Madison, WI
- 2008 **Gochfeld DJ**, Thacker RW, Olson JB. Emerging infectious diseases of coral reef sponges: *Aplysina* Red Band Syndrome on Caribbean reefs. 11th International Coral Reef Symposium, Fort Lauderdale, FL
- 2008 **Gochfeld DJ**, *Kamel HN. A comparison of defensive metabolite production in healthy and diseased sponges. 11th International Coral Reef Symposium, Ft. Lauderdale, FL
- 2008 **Gochfeld DJ**, Aeby GS, *Pappas KE. Antibacterial chemical defenses in corals: widespread but selective resistance to bacterial pathogens. 11th International Coral Reef Symposium, Fort Lauderdale, FL
- 2008 *Renegar DA, Blackwelder PL, **Gochfeld DJ**, Moulding AL. Ultrastructural and Histological Analysis of Dark Spot Syndrome (DSS) in *Siderastrea siderea* and *Agaricia* spp. 11th International Coral Reef Symposium, Fort Lauderdale, FL

- 2008 Slattery M, Lesser MP, *Ankisetty S, **Gochfeld DJ**. Phenotypic plasticity in chemical defense and growth across a depth gradient in Caribbean sponges. 11th International Coral Reef Symposium, Fort Lauderdale, FL
- 2006 *Renegar DA, Blackwelder PL, **Gochfeld DJ**, Ritchie KB, Moulding AL, Riegl BM, Portnoy DA, Alsayegh H. Ultrastructural analysis in the elucidation of disease in reef-building corals. International Society for Reef Studies European Meeting, Bremen, Germany
- 2006 Olson JB, **Gochfeld DJ**. Molecular ecology of the scleractinian coral *Siderastrea siderea*: Impacts of disease on associated microbial communities. 11th International Symposium on Microbial Ecology, Vienna, Austria
- 2006 **Gochfeld DJ**, *Weston J, Slattery M. Effects of Industrial Discharge and Pharmaceuticals on Sea Urchin Development. International Echinoderm Conference, Durham, NH (Published in: Harris LG, Böttger SA, Walker CW, Lesser MP (eds) Echinoderms: Durham. CRC Press, Boca Raton. pp 652-653)
- 2006 **Gochfeld DJ**, Slattery M, Olson JB. *Aplysina* red band syndrome: a new condition affecting Caribbean sponges. 7th International Sponge Symposium, Buzios, Brazil (Published in: Rio de Janeiro Museu Nacional Serie Livros 16:117)
- 2006 *Schlöder C, Thacker R, **Gochfeld D**. Effect of Anthropogenic Disturbance on Sponge Community Structure and Disease Incidence. 7th International Sponge Symposium, Buzios, Brazil (Published in: Rio de Janeiro Museu Nacional Serie Livros 16:136)
- 2006 **Gochfeld DJ**, *Harrison L, Olson J, Lesser MP, Ankisetty S, Slattery M. Allelopathic effects of the Caribbean sponge *Svenzea zeai* on the coral *Montastraea annularis*. 7th International Sponge Symposium, Buzios, Brazil (Published in: Rio de Janeiro Museu Nacional Serie Livros 16:116)
- 2006 Slattery M, **Gochfeld DJ**, Lesser MP. Ecology and bioactivity of Deep-Reef Sponge Communities in the Bahamas. 7th International Sponge Symposium, Buzios, Brazil (Published in: Rio de Janeiro Museu Nacional Serie Livros 16:138)
- 2005 **Gochfeld DJ**. Use and misuse of butterflyfishes as indicators of coral reef health. 13th International Symposium on Pollution Responses in Marine Organisms, Alessandria, Italy (Published in: Marine Environmental Research 62:S387)
- 2005 Slattery M, **Gochfeld DJ**, Houk P, *Harrison LR, *Chaudhary A, Willett K. Effects of environmental estrogens on populations of the tropical Pacific soft coral *Sinularia polydactyla*. 13th International Symposium on Pollution Responses in Marine Organisms, Allessandria, Italy (Published in: Marine Environmental Research 62:S267)
- 2005 Slattery M, *Kamel HN, **Gochfeld DJ**, *ElShahawi S, *Ankisetty S. Hybridization in Drug Discovery: Novel Biogenic Metabolite Production. International Marine Biotechnology Conference, St. John, Canada
- 2004 **Gochfeld DJ**, Slattery M, Hamann MT, Sullivan K, Quinn N, Walker L. New drugs from marine natural resources of Jamaican reefs: development of an International Cooperative Biodiversity Group program. International Congress on Natural Products Research, Phoenix, AZ
- 2004 Slattery M, *Kamel H, **Gochfeld DJ**, *Elshahawi S, *Ankisetty S. Hybridization in soft corals: genetic recombinations result in novel biogenic metabolites. International Congress on Natural Products Research, Phoenix, AZ

- 2004 **Gochfeld DJ**, Olson JB, *Marsh KE, Slattery M. Temporal changes in susceptibility to Dark Spot Syndrome in the Caribbean coral *Siderastrea siderea*. 10th International Coral Reef Symposium, Okinawa, Japan
- 2004 Slattery M, *Kamel HN, **Gochfeld DJ**, Thacker RW. Chemical resistance in the hybrid soft coral *Sinularia maxima* x *S. polydactyla*. 10th International Coral Reef Symposium, Okinawa, Japan
- 2004 Quinn N, Ferguson ND, **Gochfeld D**, Hamann MT, Slattery M, Stephenson JI, Walker L, Kojis BL. Exploring pharmacologically interesting natural products from the coral reefs of Jamaica. 10th International Coral Reef Symposium, Okinawa, Japan
- 2004 Slattery M, **Gochfeld DJ**, Thacker R. Phenotypic plasticity and hybridization in drug discovery: soft coral chemical resistance. World Aquaculture Society Meeting, Honolulu, HI
- 2003 Slattery M, *Kamel H, **Gochfeld DJ**, Thacker RW. Chemical resistance in the hybrid soft coral, *Sinularia maxima* x *S. polydactyla*. International Symposium on the Chemistry and Biology of Marine Organisms, Kolympari, Crete, Greece
- 2002 **Gochfeld DJ**, Hamann MT, Avery BA, *Marsh KE, Thacker RW, Slattery M. Chemical variability and ecological activity of compounds from the Caribbean sponge *Plakortis* sp. 6th Sponge Conference, Genoa, Italy (Published in Boll Mus Ist Biol Univ Genova 66-67:81)
- 2002 Slattery M, **Gochfeld DJ**, Iliffe T, Kakuk B, Kelly M. Biodiversity and Competitive Interactions of Cave Sponges in the Bahamas. 6th Sponge Conference, Genoa, Italy (Published in Boll Mus Ist Biol Univ Genova 66-67:184)
- 2001 **Gochfeld DJ**, Hamann MT, Avery BA, Slattery M. Environment-specific variability in bioactivity and chemistry of the Caribbean sponge *Plakortis* sp. American Society of Pharmacognosy Meeting, Oaxaca, Mexico
- 2000 Zjawiony JK, *Katsuyama I, Hamann MT, **Gochfeld DJ**, *Hu J. Conjugate addition of sulfur nucleophiles to marine natural product puupehenone. International Chemical Congress of Pacific Basin Societies (Pacifichem), Honolulu, HI
- 2000 **Gochfeld DJ**, Slattery M, Avery BA, Hamann MT. Site- and depth-specific variability in the chemistry of the Caribbean sponge *Plakortis* sp. 9th International Coral Reef Symposium, Bali, Indonesia
- 2000 Slattery M, **Gochfeld DJ**, *DeBusk BC, Gaston GR, Schlenk DK. Chemical and structural defenses mediate gorgonian prey preference of *Cyphoma gibbosum*. 9th International Coral Reef Symposium, Bali, Indonesia
- 1999 **Gochfeld DJ**, *Minton DT. When to move and where to go: movement behavior of the Caribbean Littorinid, *Cenchritis muricatus*. International Symposium on Littorinid Biology, Jamaica
- 1999 *Minton D, **Gochfeld D**. Is life on the rocky shore really so hard? International Symposium on Littorinid Biology, Jamaica
- 1997 **Gochfeld DJ**. Effect of food reduction on territoriality in two specialist coral-feeding butterflyfishes. Western Society of Naturalists Meeting, La Paz, Mexico
- 1996 **Gochfeld DJ**. Chemical defense in the hard coral, *Porites compressa*. 8th International Coral Reef Symposium, Panama
- 1996 *Aeby GS, **Gochfeld DJ**. Control of populations of a coral-feeding nudibranch by fish and crustacean predators. 8th International Coral Reef Symposium, Panama

- 1994 **Gochfeld DJ.** Effect of reducing coral cover on territoriality in a specialist coral-feeding butterflyfish. Ecological and Evolutionary Ethology of Fishes Meeting, University of Victoria, British Columbia, Canada
- 1992 **Gochfeld DJ.** Feeding preferences of coral-feeding fishes as possible indicators of levels of prey defense. Seventh International Coral Reef Symposium, Guam (Published in: Proceedings of the 7th International Coral Reef Symp, Guam 2:875)
- National:**
- 2019 **Gochfeld DJ,** Brandt ME, Chaves-Fonnegra A, Smith TS, Ennis RS, Olson JB, Brandt ME. Impacts and recovery on coral reefs following Hurricanes Irma and Maria in St. Thomas, USVI. Coastal and Estuarine Research Federation Biennial Conference, Mobile, AL
- 2019 *Barnett AF, *Gledhill J, **Gochfeld DJ,** Griffitt RJ, Willett KL, *Bell J, Easson G, Showalter-Otts S, Slattery M. The independent and interactive effects of TBT and hypoxia on the oyster *Crassostrea virginica*. Coastal and Estuarine Research Federation Biennial Conference, Mobile, AL
- 2019 *Gledhill J, *Barnett AF, **Gochfeld DJ,** Griffitt RJ, Willett KL, *Bell J, Easson G, Showalter-Otts S, Slattery M. Gene expression analysis in the Eastern oyster (*Crassostrea virginica*) exposed to hypoxic conditions. Coastal and Estuarine Research Federation Biennial Conference, Mobile, AL
- 2019 **Gochfeld DJ,** Brandt ME, Chaves-Fonnegra A, Smith TS, Ennis RS, Olson JB. Recovery of coral reef communities in St. Thomas, U.S. Virgin Islands following Hurricanes Irma and Maria. American Academy of Underwater Scientists Diving for Science Symposium, Vancouver, Canada
- 2019 *Pankey MS, **Gochfeld DJ,** *Macartney KJ, Slattery M, Plachetzki DC, Lesser MP. Repeated increases in symbiotic diversity shape convergent evolution in early metazoans. Benthic Ecology Meeting, St. John's, Newfoundland, Canada
- 2019 Brandt ME, Olson JB, *Chaves Fonnegra A, Smith TB, Ennis RS, **Gochfeld DJ.** Impacts in Hurricanes Irma and Maria on coral reef sponge communities of St. Thomas, U.S. Virgin Islands. American Society of Limnology and Oceanography 2019 Aquatic Sciences Meeting, San Juan, PR
- 2019 *Barnett AF, *Gledhill J, **Gochfeld D,** Griffitt J, Willett K, *Bell J, Easson G, Showalter-Otts S, Slattery M. The independent and interactive effects of TBT and hypoxia on the oyster, *Crassostrea virginica*. Mississippi Academy of Sciences Meeting, Hattiesburg, MS
- 2019 *Clayshulte A, *Cox MR, *Mellor A, **Gochfeld DJ,** Slattery M. Tissue Caloric Content and Biochemical Composition as a Proxy for Sponge Condition Across the Caribbean Mississippi Academy of Sciences Meeting, Hattiesburg, MS. Won 3rd place, best presentation
- 2019 *Gledhill J, *Barnett AF, *Bell J, Griffitt RJ, **Gochfeld DJ,** Easson G, Showalter-Otts S, Willett KL, Slattery M. Effects of hypoxia on the immune response of the eastern oyster (*Crassostrea virginica*). Mississippi Academy of Sciences Meeting, Hattiesburg, MS
- 2019 *Bell J, Easson G, *Barnett AF, *Gledhill J, **Gochfeld D,** Slattery M. Evaluating the effect of opening the Bonnet Carré Spillway on the Mississippi Gulf Coast oyster production and current vs. historical spatial relationships. Mississippi Academy of

- 2018 Sciences Meeting, Hattiesburg, MS
*Bell J, Easson G, *Barnett AF, *Gledhill J, **Gochfeld D**, Slattery M. Evaluating the effect of opening the Bonnet Carre Spillway on the Mississippi Gulf Coast oyster production and current vs. historical spatial relationships. Alabama Mississippi Bays and Bayous Symposium, Mobile, AL
- 2018 *Barnett AF, *Gledhill J, Willett KL, Slattery M, Griffitt RJ, **Gochfeld DJ**. The independent and interactive effects of TBT and hypoxia on the oyster *Crassostrea virginica*. Society for Environmental Toxicology and Chemistry Meeting, Sacramento, CA
- 2018 *Gledhill J, *Barnett AF, Griffitt RJ, **Gochfeld DJ**, Slattery M, Willett KL. Effects of hypoxia on the immune response of the eastern oyster (*Crassostrea virginica*). Society for Environmental Toxicology and Chemistry Meeting, Sacramento, CA
- 2018 **Gochfeld DJ**, Brandt ME, *Chaves Fonnegra A, Smith TB, Ennis RS, Olson JB. Impacts of Hurricanes Irma and Maria on coral reef communities of St. Thomas, U.S. Virgin Islands. American Academy of Underwater Sciences Diving for Science Symposium, Tahoe City, CA.
- 2018 Slattery M, Lesser MP, **Gochfeld DJ**, *Macartney K, *Pankey MS, *Clayshulte A, Kintzing E. From shallow to deep reefs: depth gradients of sponge biodiversity and biomass throughout the Caribbean. American Academy of Underwater Sciences Diving for Science Symposium, Tahoe City, CA
- 2018 *Clayshulte A, *Mellor A, **Gochfeld D**, Slattery M. Microbial abundance drives soluble protein content in Caribbean sponges. Society for Environmental Toxicology and Chemistry Young Environmental Scientists Meeting, Madison, WI,
- 2018 *Barnett AF, *Gledhill J, *Bell J, **Gochfeld D**, Willett K, Easson G, Showalter-Otts S, Slattery M. Molecular and Physiological Responses to Biotic and Abiotic Stressors of the Eastern Oyster (*Crassostrea virginica*) in the Mississippi Sound. Society for Environmental Toxicology and Chemistry Young Environmental Scientists Meeting, Madison, WI
- 2017 **Gochfeld DJ**, Olson JB, Brandt ME, Diaz MC, *Easson CG. Association of land-based stressors with composition of Caribbean sponge communities. American Academy of Underwater Sciences, Alpena, MI (Published in: Gochfeld DJ, Wright CS (eds), Diving for Science 2017: Proceedings of the American Academy of Underwater Sciences 36th Scientific Symposium, Alpena, MI. p 76)
- 2017 Slattery M, Lesser MP, **Gochfeld DJ**, Diaz MC, Kintzing E. Biogeographic connectivity of Caribbean mesophotic sponge communities. American Academy of Underwater Sciences, Alpena, MI (Published in: Gochfeld DJ, Wright CS (eds), Diving for Science 2017: Proceedings of the American Academy of Underwater Sciences 36th Scientific Symposium, Alpena, MI. pp 67-70)
- 2017 Slattery M, **Gochfeld DJ**, *Pankey MS, Lesser MP. Soft coral bleaching is enhanced by multiple stressors. Mid-South Society of Environmental Toxicology and Chemistry Meeting, Oxford, MS
- 2017 **Gochfeld DJ**, Olson JB, Brandt ME, Diaz MC, *Easson CG. Variability in Caribbean sponge communities associated with levels of land-based sources of anthropogenic impacts. Benthic Ecology Meeting, Myrtle Beach, SC
- 2017 Slattery M, **Gochfeld DJ**, *Pankey MS, Lesser MP. Soft coral bleaching is enhanced by multiple stressors. Benthic Ecology Meeting, Myrtle Beach, SC

- 2016 **Gochfeld DJ**, Slattery M. Species-specific responses of butterflyfishes to changes in Pacific soft coral communities. American Academy of Underwater Sciences Diving for Science Symposium, Kingston, RI
- 2016 Olson JB, **Gochfeld DJ**, *Easson CE. Temporal changes in the sponge holobiont during the course of infection with *Aplysina* Red Band Syndrome. Benthic Ecology Meeting, Portland, ME
- 2016 *Stockton S, **Gochfeld DJ**, Slattery M. Variability in chemical profiles among morphotypes and geographic regions in the Caribbean sponge genus *Aplysina*. Women in STEM (WiSE) Symposium, Tuscaloosa, AL
- 2015 **Gochfeld DJ**, *Easson CG, Olson JB, Thacker RW. Relative stability of Caribbean coral reef communities over five years even in the face of disturbances. Benthic Ecology Meeting, Quebec City, Canada
- 2015 Slattery M, **Gochfeld DJ**. Butterflyfishes exhibit species-specific responses to changes in Pacific coral reef communities. Benthic Ecology Meeting, Quebec City, Canada
- 2014 *Ansley M, **Gochfeld DJ**, Slattery M, Mydlarz L, Aeby G. Immunity against disease in the Hawaiian coral *Montipora capitata*. South Central Regional Chapter Society of Toxicology Meeting, Oxford MS
- 2014 **Gochfeld DJ**, *Ansley M, *Ankisetty S, Aeby G. Antibacterial chemical resistance to disease in the Hawaiian coral *Montipora capitata*. American Society of Pharmacognosy Meeting, Oxford, MS
- 2014 *Ankisetty S, **Gochfeld D**, Slattery M. Proteomic profiling of healthy and diseased hybrid soft coral *Sinularia maxima* x *Sinularia polydactyla*. American Society of Pharmacognosy Meeting, Oxford, MS
- 2014 **Gochfeld DJ**, *Easson CG, Olson JB, *Lee SJ, *Williams C, Slattery M. Impacts of multiple climate change stressors on a Caribbean sponge disease. Joint Aquatic Sciences Meeting, Portland, OR
- 2014 **Gochfeld DJ**, Olson JB, *Easson CG, Thacker RW. Transmission of *Aplysina* Red Band Syndrome, an infectious disease of Caribbean sponges. 39th Eastern Fish Health Workshop, Shepherdstown, WV (Invited talk)
- 2014 Olson JB, **Gochfeld DJ**, Thacker RW. Methodological challenges associated with studies of marine diseases. Benthic Ecology Meeting, Jacksonville, FL
- 2013 *Ansley M, **Gochfeld DJ**, *Williams C, *Lee SJ, Aeby GS. Innate immune defenses against disease in the Hawaiian coral *Montipora capitata*. Society of Environmental Toxicology and Chemistry Meeting, Nashville, TN
- 2013 **Gochfeld DJ**, *Ansley M, *Ankisetty S, *Lee S, *Williams C, Aeby GS. Antibacterial resistance in red and orange morphs of the coral *Montipora capitata*. Benthic Ecology Meeting, Savannah, GA
- 2013 *Easson, CG, **Gochfeld DJ**, Slattery M, Momm HG, Olson JB, Thacker RW. Inferring process from pattern: determining a transmission mechanism for *Aplysina* Red Band Syndrome (ARBS) in natural sponge populations using spatial analysis. Benthic Ecology Meeting, Savannah, GA
- 2013 Olson, JB, *Stevens, JL, **Gochfeld DJ**, Thacker RW. Changes in bacterial community composition with ARBS infection of *Aplysina cauliformis* sponges. Benthic Ecology Meeting, Savannah, GA

- 2012 Olson JB, **Gochfeld DJ**, *Easson CG, Thacker RW. Understanding *Aplysina* Red Band Syndrome, a disease of marine sponges. Southeastern Branch Meeting of the American Society of Microbiology
- 2012 **Gochfeld DJ**, *Easson CG, Slattery M, Thacker RW, Olson JB. Population dynamics of a sponge disease on Caribbean reefs. American Academy of Underwater Sciences Diving for Science Symposium, Monterey, CA (Published in: Stellar DL, Lobel LK (eds), Proceedings of the American Academy of Underwater Sciences 31st Scientific Symposium, Monterey, CA. pp 125-128)
- 2012 Slattery M, **Gochfeld DJ**. Diving for science at the University of Mississippi. American Academy of Underwater Sciences Diving for Science Symposium, Monterey, CA
- 2012 *Easson C, *Baker D, **Gochfeld D**, Slattery M. Effects of macroalgal contact on carbon and nitrogen dynamics in sponge-macroalgal interactions. Benthic Ecology Meeting, Norfolk, VA
- 2012 *Lee S, **Gochfeld D**, Slattery M. Adapted tolerance to ocean acidification in a marine sponge: a physiological and biochemical approach. Benthic Ecology Meeting, Norfolk, VA
- 2012 Slattery M, *Lee S, *Easson C, *Williams C, *Hunkin E, **Gochfeld DJ**. Sponge diversity and acclimation in naturally-acidified marine caves. Ocean Sciences Meeting, Salt Lake City, UT
- 2012 *Easson CG, Thacker RW, Olson JB, Slattery M, Willett KL, **Gochfeld DJ**. Effects of nutrient enrichment on competition between the algae *Microdictyon marinum* and the sponge *Aplysina cauliformis*. Society for Integrative and Comparative Biology Annual Meeting, Charleston, SC
- 2011 Boettcher A, Major K, Morris A, *Ehmen B, *Boone E, *Coralles J, Willett K, **Gochfeld DJ**, Slattery M. Resilience of Seagrass Beds to Oil Contamination: Interaction of Physiological Responses and Genetic Diversity. Grand Bay National Estuarine Research Reserve Symposium, Grand Bay, MS
- 2011 **Gochfeld DJ**, *Pappas KE, *Lee S, Aeby GS. Variability in antibacterial activity in Hawaiian corals. American Academy of Underwater Sciences Diving for Science Symposium, Portland, ME (Published in: Pollock NW (ed), Diving for Science 2011. Proceedings of the American Academy of Underwater Sciences 30th Symposium. Portland, ME. pp 137-139)
- 2011 *Coralles J, *Lee S, *Steele L, **Gochfeld DJ**, Slattery M, Boettcher A, Willett KL. A proteomic and analytical chemistry approach: seagrasses and oil contaminants from the Deepwater Horizon oil spill. Gulf Oil Spill SETAC Focused Meeting, Pensacola, FL
- 2010 Olson JB, *Gao X, **Gochfeld DJ**, Thacker RW. *Aplysina* Red Band Syndrome: Characterization of the associated bacterial communities. Benthic Ecology Meeting, Wilmington, NC
- 2010 **Gochfeld DJ**, *Easson CG, *Krentz L, *Pappas KE, *Freeman C, Thacker RW, Olson JB. Effects of nutrient enrichment and disease on the Caribbean sponge *Aplysina cauliformis*. Ocean Sciences Meeting, Portland, OR
- 2009 *Easson CG, Thacker RW, Olson JB, Slattery M, Willett K, Boettcher A, **Gochfeld DJ**. Effects of nutrient enrichment on competition between the alga *Microdictyon marinum* and the sponge *Aplysina cauliformis*. Society for Environmental Toxicology and Chemistry Meeting, New Orleans, LA

- 2009 *Krentz L, *Marsh KE, **Gochfeld DJ**, Willett KL, Slattery M. Effects of BaP and EE2, alone and in mixture, on sex change in the bridled goby, *Coryphopterus glaucofraenum*. Society for Environmental Toxicology and Chemistry Meeting, New Orleans, LA
- 2009 **Gochfeld DJ**, *Kamel HN. Use of chemical fingerprinting to compare defensive metabolite production in healthy and diseased sponges. American Society of Pharmacognosy Meeting, Honolulu, HI
- 2009 **Gochfeld DJ**, Aeby GS, *Pappas KE. Antibacterial chemical defenses in Hawaiian and Caribbean corals provide resistance to potential pathogens. American Society of Pharmacognosy Meeting, Honolulu, HI
- 2009 Slattery M, *Ankisetty S, *Kamel H, **Gochfeld DJ**, Ferreira D, Rimoldi J, Olson JB. Can marine ecology guide natural products discovery efforts? American Society of Pharmacognosy Meeting, Honolulu, HI
- 2009 Thacker RW, **Gochfeld DJ**, Olson JB. *Aplysina* Red Band Syndrome: An infectious disease of coral reef sponges. Association of Southeastern Biologists Meeting, Birmingham, AL
- 2009 **Gochfeld DJ**, *Pappas KE, *Ankisetty S, Slattery M. Widespread but selective antibacterial chemical defenses among Caribbean corals. Benthic Ecology Meeting, Corpus Christi, TX
- 2009 *Easson CG, Olson JB, *Mobley A, Thacker RW, **Gochfeld DJ**. Impact of nutrient enrichment on the Caribbean sponge *Aplysina cauliformis*. Benthic Ecology Meeting, Corpus Christi, TX
- 2009 *Krentz L, **Gochfeld DJ**, Slattery M. Do cave sponge communities facilitate nearby coral reef community diversity? Benthic Ecology Meeting, Corpus Christi, TX
- 2009 *Ehmen B, Goldman E, May C, Boettcher A, Morris A, **Gochfeld D**, Slattery M, MacIntyre H. Assessment of habitat and population structure of seagrasses at Grand Bay National Estuarine Research Reserve. Southern Section of American Society of Plant Biologists meeting, Austin, TX
- 2009 Thacker RW, **Gochfeld DJ**, Olson JB. *Aplysina* Red Band Syndrome: An emerging infectious disease of coral reef sponges. Society for Integrative and Comparative Biology Annual Meeting, Boston, MA
- 2008 *Ehmen B, Goldman E, May C, Boettcher A, Morris A, **Gochfeld D**, Slattery M, MacIntyre H. Predicting suitable seagrass habitat at Grand Bay National Estuarine Research Reserve using a bio-optical model. Mississippi-Alabama Bays & Bayous Symposium, Biloxi, MS
- 2008 **Gochfeld DJ**, *Easson CG, Olson JB, Thacker RW, *Schlöder CM. Organismal- and community-level impacts of stressors on Caribbean coral reef sponges. 29th Society of Environmental Toxicology and Chemistry Annual Meeting, Tampa, FL
- 2008 Slattery M, Willett KL, **Gochfeld DJ**, *Weston J, *Easson C, Easson G, *Janaskie J, Boettcher A, *Ehmen B, May CA. Impacts of Hurricane Katrina on seagrass beds in Grand Bay, Mississippi. 29th Society of Environmental Toxicology and Chemistry Annual Meeting, Tampa, FL
- 2008 **Gochfeld DJ**, *Kamel H. The effect of *Aplysina* Red Band Syndrome on secondary metabolite production in *Aplysina cauliformis*. American Society of Pharmacognosy Interim Meeting, Oxford, MS (Published in: *Planta Medica* 2008:74)

- 2008 **Gochfeld DJ**, Aeby GS, *Pappas KE. Antibacterial chemical defenses in corals: widespread but selective resistance to bacterial pathogens. 33rd Eastern Fish Health Workshop, Atlantic Beach, NC (Invited talk)
- 2007 **Gochfeld DJ**, Aeby GS. Are patterns of disease in Hawaiian corals related to antimicrobial chemical defenses? Benthic Ecology Meeting, Atlanta, GA
- 2007 Olson JB, **Gochfeld DJ**. Molecular ecology of the scleractinian coral *Siderastrea siderea*: impacts of disease on associated microbial communities. Benthic Ecology Meeting, Atlanta, GA
- 2006 **Gochfeld DJ**, Aeby GS, *Miller JD. Antibacterial activity of Hawaiian corals: possible protection from disease? American Geophysical Union Meeting, San Francisco, CA
- 2006 Slattery M, **Gochfeld D**, Lesser M. Ocean exploration and drug discovery in the twilight zone. American Geophysical Union Fall Meeting, San Francisco, CA
- 2006 **Gochfeld DJ**. Assessing coral reef health: the use of butterflyfishes as indicator species. Society of Environmental Toxicology and Chemistry 27th Annual Meeting, Montreal, Canada
- 2006 **Gochfeld DJ**, *Miller J, Olson JB. Variability in susceptibility and response to Dark Spot Syndrome in *Siderastrea siderea*. 13th Ocean Sciences Meeting, Honolulu, HI (Published in EOS Transactions American Geophysical Union 87(36) Ocean Science Meeting Supplement OS26G-15)
- 2006 *Miller J, Olson JB, **Gochfeld D**. Histological Examination of *Siderastrea siderea* Affected by Dark Spot Syndrome. 13th Ocean Sciences Meeting, Honolulu, HI (Published in EOS Transactions American Geophysical Union 87(36) Ocean Science Meeting Supplement OS26G-14)
- 2005 *Purcell J, Slattery M, **Gochfeld D**. Determining the Bioactivity of a Marine Sponge Extract Against *Leishmania*. Annual Biomedical Research Conference for Minority Students, Atlanta, GA (Won Best Senior Chemistry Poster Award)
- 2005 **Gochfeld DJ**, Avery BA, *Marsh KE, Thacker RW, Slattery M. Chemical ecology of Caribbean sponges: habitat-specific variability in chemical defenses. American Society of Pharmacognosy Meeting, Corvallis, OR
- 2005 Slattery M, **Gochfeld DJ**, *Ankisetty S, *Miller J, Rimoldi JR, Willett KL, Smilie TJ, Jacob MR, Best AM, Chambliss WR, Walker L. The NIUST Ocean Biotechnology Center & Repository. American Society of Pharmacognosy Meeting, Corvallis, OR
- 2005 Olson J, **Gochfeld DJ**, Slattery M. *Aplysina* red band disease: a new sponge disease in the Caribbean. 34th Benthic Ecology Meeting, Williamsburg, VA
- 2004 Olson JB, **Gochfeld D**. A Comparison of Microbial Cultivation Techniques from Corals: Implications for the Identification of Coral Pathogens. 33rd Benthic Ecology Meeting, Mobile, AL
- 2003 Slattery M, **Gochfeld DJ**, *Weston J, Hines G, *Starmer J. Spawning Synchrony in the Soft Coral *Sinularia polydactyla* and the Effects of Estrogenic Compounds. Society of Ecological Toxicology and Chemistry Meeting, Austin, TX
- 2003 **Gochfeld DJ**, *Marsh KE, Slattery M. Antimicrobial activity of the Caribbean reef coral *Siderastrea siderea* and temporal changes in susceptibility to Dark Spot Syndrome. Benthic Ecology Meeting, Groton, CT
- 2003 **Gochfeld DJ**, Slattery M, *Weston J, McClanahan T. Inducible defenses in hard corals: a natural experiment in Kenyan marine parks. Benthic Ecology Meeting, Groton, CT

- 2003 *Marsh KE, **Gochfeld DJ**, Slattery M. Evidence for pheromonal mediation of sex change in a protogynously hermaphroditic reef fish. Benthic Ecology Meeting, Groton, CT
- 2003 Slattery M, **Gochfeld DJ**, *Marsh KE, *DeBusk BC, Schlenk D. The chemical arms race and flamingo tongue prey preferences. Benthic Ecology Meeting, Groton, CT
- 2002 **Gochfeld DJ**, Slattery M. Coral diseases and chemical resistance mechanisms. 43rd American Society of Pharmacognosy Meeting, New Brunswick, NJ
- 2002 **Gochfeld DJ**, Slattery M. Chemical ecology of reef and cave sponges of the Bahamas: predator deterrent vs. antimicrobial activity. 31st Benthic Ecology Meeting, Orlando, FL
- 2000 *Minton D, **Gochfeld DJ**. Multiple phase shifts in a mangrove benthic community as a result of guano-fication by cattle egrets (*Bubulcus ibis*). Western Society of Naturalists Meeting, Portland, OR
- 2000 **Gochfeld DJ**, Avery BA, Hamann MT. Chemical deterrence in hard corals of the genus *Porites*. Benthic Ecology Meeting, Wilmington, NC
- 2000 **Gochfeld DJ**, Hamann MT. Antimalarial compounds from the Caribbean sponge *Plakortis* sp. Gordon Research Conference on Marine Natural Products, Ventura, CA
- 1995 **Gochfeld DJ**. Evidence for inducible defenses in hard corals. 24th Benthic Ecology Meeting, Rutgers University, Piscataway, NJ
- 1994 **Gochfeld DJ**. Territorial damselfishes provide associational refuge for corals. 23rd Benthic Ecology Meeting, Mystic, CT
- 1993 **Gochfeld DJ**. Changes in feeding behavior of coral-feeding butterflyfishes in response to increased prey defense. American Society of Ichthyologists and Herpetologists Meeting, University of Texas, Austin, TX
- 1993 **Gochfeld DJ**. Predation-induced defenses in hard corals reduce susceptibility to future predation. Albert L. Tester Memorial Symposium, University of Hawaii, Honolulu, HI (Published in: Pacific Science: 48:203) (Won Best Paper Award)
- 1991 **Gochfeld DJ**. Corals benefit from territorial defense by the herbivorous damselfish, *Stegastes nigricans*, in Moorea, French Polynesia. Pacific Science Congress, Honolulu, HI (Published in: Pacific Science 46:93)
- 1990 **Gochfeld DJ**. Energetics of a predator-prey interaction: corals and coral-feeding fishes. Ecological & Evolutionary Ethology of Fishes Meeting, Flagstaff, AZ

UNIVERSITY SERVICE (SELECTED)

- 2019- **Member**, Research and Graduate Affairs Committee, School of Pharmacy, University of Mississippi
- 2018 **Member**, Environmental Toxicology Faculty Search Committee, Department of BioMolecular Sciences, University of Mississippi
- 2018 **Committee Chair**, Search Committee for Associate R & D Chemist, Department of BioMolecular Sciences, University of Mississippi
- 2017- **Member**, Center for Biodiversity and Conservation Research, University of Mississippi
- 2016- **Appointed UM Delegate**, National Association of Marine Laboratories
- 2015-2017 **Member**, National Institute of Undersea Science and Technology (NIUST) Task Force, Office of Research and Sponsored Programs, University of Mississippi

- 2015-2017 **Member**, Recovery Act (RESTORE) Task Force, Office of Research and Sponsored Programs, University of Mississippi
- 2015-2017 **Member**, Committee on Members in Course, University of Mississippi chapter of Phi Beta Kappa
- 2015 **Internal Proposal Reviewer**, Office of Research and Sponsored Programs, University of Mississippi
- 2014-2015 **Member**, Search Committee for Associate Dean for Research and Graduate Programs, School of Pharmacy, University of Mississippi
- 2014 **Internal Proposal Reviewer**, School of Pharmacy, University of Mississippi
- 2012-2014 **Member**, Faculty Governance Task Force, School of Pharmacy, University of Mississippi
- 2011-2012 **Chair**, Diving Safety Control Board, University of Mississippi
- 2012 **Member**, Committee on expectations and promotion requirements of Research Faculty and Scientists, National Center for Natural Products Research, University of Mississippi
- 2006-2012 **Vice Chair**, Diversity Committee, School of Pharmacy, University of Mississippi
- 2002-2012 **Member**, Resources Committee, Natural Resources Initiative of North Mississippi
- 2002-2011 **Member**, Diving Safety Control Board, University of Mississippi
- 2005-2008 **Organizer and Judge**, Sigma Xi Student Research Symposium, University of Mississippi
- 2005-2006 **Chair**, Associate Director Search Committee, National Institute of Undersea Science and Technology, University of Mississippi
- 2004-2006 **Mentor**, NSF Summer Research Institute for Undergraduates, University of Mississippi
- 2004-2006 **Member**, Faculty Search Committees, National Institute of Undersea Science and Technology, University of Mississippi
- 2003-2006 **Member**, Diversity Committee, School of Pharmacy, University of Mississippi
- 2002-2004 **Judge**, Sigma Xi Student Research Symposium, University of Mississippi
- 1999-2000 **Mentor**, National Institutes of Health Apprenticeship Program in the Biomedical Sciences, for minority high school students, University of Mississippi
- 1994-1996 **Organizing Member**, Graduate Women in Zoology, Dept. of Zoology, University of Hawaii, Honolulu, HI
- 1994-1995 **Mentor**, Mentoring program for incoming graduate students, Dept. of Zoology, University of Hawaii, Honolulu, HI
- 1994 **Organizer and Judge**, Albert L. Tester Memorial Symposium, University of Hawaii. Honolulu, HI

PROFESSIONAL SERVICE

- 2018 **Co-Editor**, "Diving for Science 2018: Proceedings of the American Academy of Underwater Sciences 37th Scientific Symposium, Tahoe City, CA." Dauphin Island, AL: American Academy of Underwater Sciences. Pp. 124.
- 2017 **Co-Editor**, "Diving for Science 2017: Proceedings of the American Academy of Underwater Sciences 36th Scientific Symposium, Alpena, MI." Dauphin Island, AL: American Academy of Underwater Sciences. Pp. 92.
- 2015-2016 **Associate Editor**, Marine Biology
- 2016 **Judge**, Best student presentation, American Academy of Underwater Sciences Diving for Science Symposium, Kingston, RI

- 2016 **Symposium Co-Chair**, The Role of Macro-invertebrates on Coral Reefs, 13th International Coral Reef Symposium, Honolulu, HI
- 2014 **Symposium Co-Chair**, Chemical Ecology Symposium, 2014 American Society of Pharmacognosy Annual Meeting, Oxford, MS
- 2013-2014 **Scientific Planning Committee**, 2014 American Society of Pharmacognosy Annual Meeting, Oxford, MS
- 2013 **Judge**, Best student presentation, Society for Environmental Toxicology and Chemistry Meeting, Nashville, TN
- 2013 **Judge**, Best student presentation, Benthic Ecology Meeting, Savannah, GA
- 2013 **Judge**, Best student presentation, American Academy of Underwater Sciences Diving for Science Symposium, Monterey, CA
- 2010-2014 **Consultant**, Submerged Aquatic Vegetation Technical Working Group, Mississippi Department of Environmental Quality, Mississippi Gulf Coast Deepwater Horizon Incident Natural Resource Damage Assessment
- 2008 **Site Inspector**, Council for International Educational Exchange Program in Bonaire, Netherlands Antilles
- 2007 **Session Chair**, Benthic Ecology Meeting, Atlanta, GA
- 2005-2006 **Member**, Vessa Notchev Fellowship Committee, Graduate Women in Science/Sigma Delta Epsilon
- 2006 **Member**, Diving Safety Control Board, Perry Institute of Marine Science/Caribbean Marine Research Center
- 2004 **Delegate and Judge**, Sigma Xi Annual Meeting and Student Research Conference, Montreal, Canada

Panelist

- National Science Foundation
 - Integrative Organismal Systems: Symbiosis, Defense and Self-Recognition
 - Integrative Organismal Systems: Integrative Ecological Physiology
 - Ocean Sciences
 - East Asia and Pacific Summer Institutes
- Environmental Protection Agency
 - STAR Fellowships for Graduate Environmental Study
- Puerto Rico Sea Grant Applied Research Competition

Reviewer

- Research grant proposals:
 - NSF/Biological Oceanography
 - NSF/Chemical Oceanography
 - NSF/Integrative Organismal Systems: Symbiosis, Defense and Self-Recognition
 - NSF/ Integrative Organismal Systems: Integrative Ecological Physiology
 - NOAA/Hawaii Coral Reef Initiative
 - NOAA/Hawaii Undersea Research Laboratory
 - Puerto Rico Sea Grant
 - Center for Field Studies/Earthwatch
 - University of Mississippi Office of Research and Sponsored Programs Investment Grants Program
 - Netherlands Organization for Scientific Research

Graduate research fellowships/scholarships:

EPA/STAR Fellowships for Graduate Environmental Study
NSF/East Asia and Pacific Summer Institutes
Graduate Women in Science/Sigma Delta Epsilon
American Academy of Underwater Sciences Scholarships
University of Mississippi Field Station Ralph Powe Research Award

Journals:

Aquaculture
Aquatic Biology
Aquatic Toxicology
Behavioral Ecology
Bulletin of Environmental Contamination and Toxicology
Chemistry and Ecology
Coral Reefs
Diseases of Aquatic Organisms
Ecological Monographs
FEMS Microbiology Ecology
Hydrobiologia
Integrative and Comparative Biology
Invertebrate Biology
Journal of Chemical Ecology
Journal of Experimental Marine Biology and Ecology
Journal of Fish Biology
Journal of Natural Products
Journal of Shellfish Research
Marine Biodiversity
Marine Biology (and Associate Editor: September 2015-present)
Marine Drugs
Marine Ecology Progress Series
Marine Environmental Research
PLoS One
Proceedings of the Royal Society B
Scientific Reports
The ISME Journal
Toxicological Sciences

Book Chapters:

High school environmental science textbook (Holt, Rinehart and Winston, eds)
The Biology of the Butterflyfishes (Pratchett M, Berumen M, eds)
Diseases of Coral (Woodley CM, Downs CA, Bruckner AW, Porter JW, Galloway SB, eds)

Proceedings:

13th International Coral Reef Symposium

External Ph.D. Examiner

College of Science and Engineering, James Cook University, Townsville, Australia

- 2019 **Science Café:** Researching the Health of Oyster Reefs in Mississippi. Hancock County Historical Society, Bay Saint Louis, MS
- 2011 **Invited Speaker,** Insights Class (3rd Grade), Oxford Elementary School, Oxford, MS
- 2006 **Invited Speaker,** Marine Science Classes, Mountain Brook High School, Birmingham, AL
- 2005 **Judge,** Mississippi Regional Junior Science and Humanities Symposium, Oxford, MS
- 2004 **Organizer,** Community Informational Meetings, “New Drugs from Marine Natural Resources of Jamaican Reefs”, Workshops held at four locations within Jamaica (20-40 stakeholder participants per workshop; 4 workshops)
- 2003 **Organizer,** Workshop, “Marine Resources of the Belize Barrier Reef”, University of Belize, Belmopan, Belize (75 participants)
- 2001-2000- **Judge,** North Mississippi Regional Science and Engineering Fair, Oxford, MS
- 2000- **Member,** Alumnae Admissions Committee, Vassar College Alumnae Association, Poughkeepsie, NY
- 1999 **Mentor,** High school mentoring program sponsored by the American Chemical Society, Oxford High School, Oxford, MS
- 1993-1994 **Judge,** Hawaii State Science and Engineering Fair, Honolulu, HI
- 1992-1997 **Instructor,** Sea Life Park, Waimanalo, HI. Taught *Fish Biology* as part of annual docent training workshop.
- 1995-1996 **Instructor,** Education Department, Waikiki Aquarium, Honolulu, HI. Taught courses on *Biology of Coral Reef Fishes* for the public.
- 1993-1995 **Instructor,** Elderhostel Program, University of Hawaii, Honolulu, HI. Lectured on *Seabirds of Hawaii*.
- 1994 **Instructor,** Elderhostel Program, Pacific Islands Institute, Kailua, HI. Lectured on *The Underwater World of the South Pacific* and *Coral Reefs in Sickness and in Health*.
- 1993-1994 **Instructor,** Hawaiian Marine Biology Program for Select High School Students, SeaCamp, Inc. Taught field-based marine biology courses for high school students.

CERTIFICATIONS

Annual	First Aid, CPR, AED, Oxygen Administration
2014	Divemaster, NAUI
2014	CITI Collaborative Institutional Training Initiative Course in the Responsible Conduct of Research
2006	Rebreather – Evolution, IANTD
2006	Advanced Nitrox, IANTD
1998	Chemical Safety, Biological Safety, Pathogen Safety, IACUC training, University of Mississippi
1991	Nitrox, IAND
1989	Advanced Open Water Diver, PADI
1986	AAUS Scientific Diver, West Indies Lab (University of Hawaii 1988, University of Mississippi 2002)
1986	Open Water Diver, PADI