CURRICULUM VITAE

Mark Edward Hay

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Education

1980 - Ph.D.	Ecology and Evolutionary Biology, University of California, Irvine	
1977 - M.S.	Biology, University of California, Irvine	
1974 - B.A.	Zoology (also completed requirements for BA in Philosophy), University of Kentucky	
Professional Positions and Ranks		
1999- present	Harry and Anna Teasley Chair in Environmental Biology, Georgia Institute of Technology;	

Founding Director and Co-Director of the Aquatic Chemical Ecology Center at GIT (It 2009 2021

2000-2021	rounding Director and Co-Director of the Aquatic Chemical Ecology Center at GIT (it
	has now been merged into the Center for Microbial Dynamics and Infection);
2018-2022	Co-Director of the Ocean Science and Engineering Ph.D. Program at GIT

2016-2022	Co-Director of the Ocean Science and Engineering Fil.D. Frogram at Gri
2018-2020	Courtesy Professor, Biological Sciences, Florida State University as the William R. and
	Lenore Mote Eminent Scholar in Marine Biology

2015-2019	Adjunct Professor, University of the South Pacific, Institute of Applied Sciences
	Regents' Professor (Board of Regents, University System of Georgia)

2014- present	Adjunct Faculty, Georgia Aquarium's Research Institute	
2002-2007	Adjunct Faculty, Skidaway Institution of Oceanography	
1002 1000	Professor, University of North Carolina at Chanel Hill. In	10

1992-1999	Professor, University of North Carolina at Chapel Hill, Institute of Marine Sciences,
	Department of Marine Sciences, Department of Biology, and Curriculum in Ecology

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1989-1992	Associate Professor, University of North Carolina at Chapel Hill
1982-1989	Assistant Professor, University of North Carolina at Chapel Hill

1983-1990	Visiting Assistant and	Associate Professor	, Duke University Marine	I aboratory (summer
1703-1770	only)	71350ciate 1101c5501,	, Dake Oniversity Warme	Laboratory (summer
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1982	Visiting Assistant Professor of Ecology, College of the Virgin Islands
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1981-1992	Research Associate, Smithsonian Institution, Botany Department, U.S. National Museum
	of Natural History (equivalent to an adjunct faculty appointment)

Post-doctoral Fellow in Paleobiology, Smithsonian Institution, U.S. National Museum of

Natural History

Pre-doctoral Fellow, Smithsonian Tropical Research Institute and U.S. National Museum 1977-1979 of Natural History

Regents Fellow, University of California at Irvine

Recent Honors and Awards

1980-1981

1974-1977

2025	Course Instructor Opinion Survey (CIOS) Honor Roll (Recognition for teaching
	effectiveness)

2024 Ranked by ScholarGPS in the top 0.03% of all scientists in terms of impact and the top 0.01% in terms of quality. In biological sciences those values are 0.06% and 0.03%.

2023	Ecology and Evolution Leader Award from Research.com
2022	Elected to Membership, U.S. National Academy of Sciences
	Elected to Membership, American Academy of Arts and Sciences
	Chair, The Explorers Club, Atlanta Chapter
	Fulbright Distinguished Scholar in Marine Biology and Oceanography (Universidade
	Federal do Rio Grande do Norte, Natal, Brazil)
2021	An undergraduate that I provided with a summer research experience 40+ years ago
	established the "Mark Hay – Walker Smith Research Scholarship Fund" for undergraduates
	at Western Kentucky University to fund similar research experiences for undergraduates.
2019	A founding member of The Nature Conservancy's Palmyra Science Advisory Board
2019	(ongoing)
	Co-organizer for the International Society of Chemical Ecology Annual Meeting
	Advisory Council for the Smithsonian's Tennenbaum Marine Observatories Network and
	Marine Global Earth Observatory (MarineGEO) Program (ongoing)
2018	Award the Gilbert Morgan Smith Medal by the US National Academy of Sciences
	The Mote Eminent Scholar in Marine Biology
	Selected (as the only outside scientist) to advise The Nature Conservancy on developing a
	strategy for optimizing use of the Palmyra Field Station
2016	International Society of Chemical Ecology Silver Medal (the Society's Highest Honor)
	Fellow, Ecological Society of America
	Outstanding Faculty Research Author Award (For producing the most impactful publications
	from Georgia Tech over the previous 5 years)
2015	Lowell Thomas Award from the Explorers Club (Visionaries of Conservation: Paradigm
	Shifts in Protecting the Planet)
	Explorers Club National Fellow
2014	Regents' Professor (the highest academic status bestowed by the University System of
	Georgia)
2013	AAAS Fellow (for "developing marine chemical ecology and for elucidating how chemical
	cues and signals structure populations, communities, and ecosystems.")
2012	Cody Award in Ocean Sciences (recognizes outstanding scientific achievement in
	Oceanography, Marine Biology, and Earth Science)
2011	Class of 1934 Distinguished Professor Award (Ga Tech's highest faculty award)
2010	Hall of Distinguished Alumni, University of Kentucky

Editorial Activities

2023-present	Editorial Board – Proceedings of the National Academy of Sciences
2016- present	Associate Editor – Science Advances
2012-2017	Editorial Board - PeerJ
2010-2013	Ecology Editor – Coral Reefs
2009-present	Faculty of 1000 Biology, Ecology Advisory Board
2002- 2023	Editorial Board – Journal of Chemical Ecology
2001-2013	Editorial Board – Coral Reefs
2006 - 2008	Editorial Board - Frontiers in Ecology and the Environment
2004 -2005	Associate Editor – Journal of Chemical Ecology
2002	Organized and Edited a special issue of the Journal of Chemical Ecology devoted to
	studies in aquatic systems
1997-2002	Associate Editor - Chemoecology
1997-2016	Editorial Board - Journal of Experimental Marine Biology and Ecology
1989-1993	Editorial Board - Ecology, Ecological Monographs
1989-1992	Editorial Board - Marine Ecology Progress Series

<u>**Publications:**</u> (* = Grad Student in my lab; # = Post-doc or Research Scientist in my lab; + = undergrad in my lab; all at the time the study was conducted)

Submitted:

- 261) #Clements CS, Pratte ZA, Stewart FJ, Hay ME (submitted 10_28_25) What processes generate positive biodiversity effects on coral reefs? **Ecology**
- 260) Zhou X, Novi L, Hay ME, Montoya JP, Aliu A, Realff MJ, Bracco A (submitted 8/18/25) Evolving Drivers of the GASB: From Physical Forcing to Ecological Control. **Nature Communications**.
- 259) Silliman BR, Hensel MJS, Paxton AB, Wieczynski DJ, Gibert JP, Noonan D, Ferris WN, Johnston DW, Hay ME, Paalman T, Cutshaw C, Borsuk M, Angelini C, Dalton LE, van de Koppel J, van Belzen J, Strong B, Angelini TE, Bertness MD, Gutierrez AW, Thomsen MS, Olander L, Temmink RJM, Cassar N, Stoorvogel MM, Bouma TJ, van der Heide T, Daleo P, Parker S, Aithal A, Gittman RK, Wade E, Rungta D, Qiu T, He L, Cerino DS. Nordone SK (submitted) Ecosystem Technology (ecotech): Harnessing Natural Processes to Address Global Challenges. Science Advances
- 258) #Clements, CS, Pratte ZA, Stewart FS, and Hay ME (submitted 9_27_25) Effects of genotypic diversity on growth and survival of an ecologically important coral. **Ecology**
- 257) *Willert MS, France CAM, Baldwin CC, and Hay ME (reviewed and being revised) Ontogenetic shifts in trophic ecology and habitat use for two species of hammerhead sharks in the Atlantic Ocean. Marine Ecology Progress Series
- 256) *Altman-Kurosaki N, Hay ME (submitted 5/20/25) Consumer-prey interactions in a warming ocean: Corallivore impacts on corals depend on both predator and prey responses to rising temperatures. **Global Change Biology**
- 255) *Altman-Kurosaki N, Hay ME (revised and re-submitted) Nutrient additions change the agonistic and grazing behavior of an ecosystem engineer on tropical reefs. **Oecologia**
- 254) #Clements CS, *Altman-Kurosaki NT, Pollock FJ, Hay ME. (revised and re-submitted) Historic coral disturbance versus current coral restoration: Insights from Palmyra Atoll. **Coral Reefs**

Published or in press:

- 253) Hay ME, Williams TM, and Power ME. 2025. James A. Estes: An ecologist's quest to understand nature. **Proceedings of the National Academy of Sciences** 122: 44 e2526847122, https://doi.org/10.1073/pnas.2526847122
- 252) Maritan AJ, #Clements CS, Pratte ZA, Hay ME, Stewart FJ. 2025. Sea cucumber grazing linked to enrichment of anaerobic microbial metabolisms in coral reef sediments. **ISME** wraf088, https://doi-org-443.vpnm.ccmu.edu.cn/10.1093/ismejo/wraf088
- 251) *Altman-Kurosaki NT, Pratte ZA, Stewart F, Hay ME. 2025. Coral-algal competition: allelopathy, temporal variance, and effects on coral microbiomes. **Coral Reefs** 44:49-62, https://doi.org/10.1007/s00338-024-02585-7
- 250) *Altman-Kurosaki NT and Hay ME. 2024. Interactions between consumer access and nutrient enrichment have divergent impacts on two common Pacific corals. **Marine Ecology Progress Series** 750: 53-63. https://doi.org/10.3354/meps14737
- 249) #Clements CS, Ladd MC, Gallagher JP, Hay ME. 2024. Coral performance is comparable when transplanted to disparate reef sites despite divergent histories of reef decline and recovery.

 Marine Ecology Progress Series. 748: 53–67, https://doi.org/10.3354/meps14712
- 248) #Clements, CS, Pratte ZA, Steward FJ, Hay ME. 2024. Biodiversity of macroalgae does not differentially suppress coral performance: the other side of a biodiversity issue. **Ecology** 024;e4329.

- 247) #Clements, CS, Pratte ZA, Steward FJ, Hay ME. 2024. Removal of marine detritivores increases coral disease. **Nature Communication**. **15**, 1338 (2024) DOI https://doi.org/10.1038/s41467-024-45730-0 covered by "All Things Considered" on NPR, go to: https://www.npr.org/2024/03/13/1237026196/the-lowly-sea-cucumber-may-be-helping-to-protect-coral-reefs-against-disease
- 246) *Willert MS, France CAM, Baldwin CC, Hay ME. 2023. Historic trophic decline in New England's coastal marine ecosystem. **Oecologia** 202:455-463.
- 245) #Clements CS and Hay ME. 2023. Disentangling the impacts of macroalgae on corals via effects on their microbiomes. **Frontiers in Ecology and Evolution** 11:1083341. doi: 10.3389/fevo.2023.1083341
- 244) Vega-Thurber R and Hay ME. 2023. Mystery solved? Disease detectives identify the cause of a mass die-off in the sea. **Science Advances** 9 (16), eadh5478
- 243) *Johnston NK, #Burns AS, Hay ME. 2023. Response of a temperate coral to temperature stress: a comparison of populations across sites. **Journal of Experimental Marine Biology and Ecology** https://doi.org/10.1016/j.jembe.2022.151863
- 242) *Beatty DS, #Clements CS, #Mathew Valayil J, +Jarvis SY, Ritchie KB, Stewart FJ, Hay ME. 2022. Variance of coral anti-pathogen defense in response to transplantation between coral- and macroalgal-dominated reefs. **Coral Reefs** 41: 1417-1431 https://doi.org/10.1007/s00338-022-02291-2
- 241) +Grayson N, #Clements CS, +Towner AA, #Beatty DS, Hay ME. 2022. Did the historic overharvesting of sea cucumbers make coral less resistant to pathogens? **Coral Reefs** 41:447-453
- 240) *Bilodeau SM, Hay ME. 2022. Chemical cues affecting recruitment and juvenile habitat selection in marine versus freshwater systems. **Aquatic Ecology** 56, 339–360. doi.org/10.1007/s10452-021-09905
- 239) #Clements CS, Hay ME. 2021. Biodiversity has a positive but saturating effect on imperiled coral reefs. **Science Advances** 2021; **7**: eabi8592
- 238) *Clements CS, #Burns AS, Stewart FJ, Hay ME. 2020. Parasite-host ecology: the limited impact of an intimate enemy on coral microbiomes. **Animal Microbiome** 2:42 https://doi.org/10.1186/s42523-020-00061-5
- 237) Brooker RM, Seyfferth AL, Hunter A, Sneed JM, Dixson DL, Hay ME. 2020. Human proximity suppresses fish recruitment by altering mangrove associated odor cues. Scientific Reports. 10: Article number: 21091
- 236) *Willert M, France C, Brooks B, Baldwin C, Hay ME. 2020. Effects of formalin preservation on carbon and nitrogen stable isotopes of seaweed: a foundation for looking back in time.

 Limnology & Oceanography Methods. 18: 717-724 (DOI: 10.1002/lom3.10397)
- 235) Inagaki KY, Pennino MG, Floeter SR, Hay ME, Longo GO. 2020. Trophic interactions will expand geographically, but be less intense as oceans warm. **Global Change Biology** DOI:10.1111/gcb.15346
- 234) Lester SE, Rassweiler A, McCoy SJ, Dubel AK, Donovan MK, Miller MW, Miller SD, Ruttenberg BI, Samhouri JF, Hay ME. 2020. Caribbean reefs of the Anthropocene: variance in ecosystem metrics indicates bright spots on coral depauperate reefs. **Global Change Biology** 26 (9): https://doi.org/10.1111/gcb.15253
- 234) *Johnston NK, Campbell JE, Paul VJ, Hay ME. 2020. Effects of future climate on coral-coral competition. **PLOS ONE**. 15 (8), e0235465
- 232) *Clements CS, #Burns AS, Stewart FJ, Hay ME. 2020. Seaweed-coral competition in the field: effects on coral growth, photosynthesis, and microbiomes require direct contact. **Proceedings of the Royal Society B** 287, 20200366
- 231) *Beatty DS, #Valayil JM, *Clements CS, Ritchie KB, Stewart FJ, Hay ME. 2019. Variable effects of local management on coral defenses against a thermally-regulated bleaching pathogen.

 Science Advances 2019; 5: eaay1048

- 230) *Clements CS and Hay ME. 2019 Biodiversity enhances coral growth, survivorship, and resistance to competitors. **Nature Ecology and Evolution** 3: 178-182. 10.1038/s41559-018-0752-7 (coverage by: PBS/NOVA/Planet Earth)
- 229) *Longo GO, Hay ME, Ferreira CLO, Floeter SR. 2019. Trophic interactions across 61 degrees of latitude in the Western Atlantic. Global Ecology and Biogeography 28: 107-117 https://doi.org/10.1111/geb.12806
- 228) *Clements CS and Hay ME. 2018. Overlooked coral predators suppress foundation species as reefs degrade. **Ecological Applications** 28: 1673-1682
- 227) *Beatty DS, *Clements CS, Stewart FJ, Hay ME. 2018. Inter-generational effects of macroalgae on a reef coral: major declines in larval survival but subtle changes in microbiomes. **Marine Ecology Progress Series** 589: 97-114 https://doi.org/10.3354/meps12465.
- 226) Pratte ZA, #Longo GO, #Burns AS, Hay ME, Stewart FS. 2018. Contact with turf algae alters the coral microbiome: contact versus systemic impacts. **Coral Reefs** 37: 1-13 DOI 10.1007/s00338-017-1615-4
- 225) *Clements CS, #Rasher DB, Hoey AS, Bonito VJ, and Hay ME. 2018. Spatial and temporal limits of coral-macroalgal competition: the negative impacts of macroalgal density, proximity, and history of contact. **Marine Ecology Progress Series** 586: 11–20
- 224) Burkepile DE, #Rasher DB, Adam TC, Hoey AS, Hay ME. 2018. Functional variation among parrotfishes: are they complementary or redundant? In: Hoey AS, Bonaldo R Eds. *The Biology and Ecology of Parrotfishes*. CRC Press, Boca Raton
- 223) *Rasher DB, Hoey AS, Hay ME. 2017. Cascading predator effects in a Fijian coral reef ecosystem. **Scientific Reports** 7:15684 DOI:10.1038/s41598-017-15679-w
- 222) Demko AM, Amsler CD, Baker BJ, Hay ME, Long JD, McClintock JB, Paul VJ, Sotka EE. 2017. Declines in plant palatability from polar to tropical latitudes depend on herbivore and plant identity. **Ecology** 98: 32312-2321
- 221) Hay ME, *Beatty DS, Stewart FJ. 2017. Chemical ecology: the language of microbiomes. National Academies of Sciences, Engineering, and Medicine. 2017. *The Chemistry of Microbiomes: Proceedings of a Seminar Series*. Washington, DC: The National Academies Press. doi: https://doi.org/10.17226/24751.
- 220) Steneck RS, Bellwood DR, Hay ME. 2017. Herbivory in the marine realm: shaping ecosystems and colliding with the Anthropocene. **Current Biology** 27: R484-489.
- 219) *Clements CS and ME Hay. 2017. Size matters: mesopredator outbreaks threaten foundation species in small marine protected areas. **PLoS ONE** DOI:10.1371/journal.pone.0171569 (outreach stories appeared in Futurity http://www.futurity.org/coral-reefs-sea-stars-1355702-2/; Science Daily https://www.sciencedaily.com/releases/2017/02/170206155942.htm; International Business Times https://www.ibtimes.com/coral-reef-protection-marine-sanctuaries-can-be-counterproductive-if-they-are-small-2487768; etc.
- 218) #Bonaldo RM, Guimarães PR, Pires MM, Hay ME. 2017. Small marine protected areas in Fiji provide refuge for reef fish assemblages, feeding groups, and corals. **PLoS ONE** http://dx.doi.org/10.1371/journal.pone.0170638
- 217) del Monaco CA, Hay ME, Gartrell P, Mumby PJ, Diaz-Pulido G. 2017. Effects of ocean acidification on the potency of macroalgal allelopathy to a common coral. **Scientific Reports** DOI: 10.1038/srep41053
- 216) #Longo GO, ME Hay. 2017. Seaweed allelopathy to corals: are active compounds on, or in, seaweeds? **Coral Reefs** 36:247-253; DOI 10.1007/s00338-016-1526-9
- 215) Hay ME, Kicklighter CE 2017. Grazing, Effects of, In Reference Module in Life Sciences, Elsevier, 2017, ISBN: 978-0-12-809633-8, http://dx.doi.org/10.1016/B978-0-12-809633-8.02099-9
- 214) *Dell CLA, Hay ME. 2016. Induced defence to grazing by vertebrate herbivores: uncommon or under-investigated? **Marine Ecology Progress Series** 561: 137–145 doi: 10.3354/meps11928

- 213) Brooker RM, Hay ME, Dixson DL. 2016. Chemically-cued suppression of coral reef resilience: where is the tipping point? **Coral Reefs** 35:1263-1270 0 DOI 10.1007/s00338-016-1474-4
- 212) *Dell CLA, #Longo GO, Hay ME. 2016. Positive feedbacks enhance macroalgal resilience on degraded coral reefs. **PLoS ONE** 11(5) e0155049. Doi: 10.1371/journal.pone.0155049
- 211) Hay ME. 2016. Negating the plant apparency model: rigorous tests are the fuel of progress. **New Phytologist** 210: 770-771.
- 210) *Dell CLA, Montoya JP, Hay ME. 2015. Effect of marine protected areas (MPA) on food web integrity: MPA fish feed higher in the food chain. **Marine Ecology Progress Series** 540: 227–234 doi 10.3354/meps11487
- 209) *Rasher DB, Stout EP, #Engel S, #Shearer TL, Kubanek J, Hay ME. 2015. Marine and terrestrial herbivores display convergent chemical ecology despite 400 million years of independent evolution. **Proceedings of the National Academy of Sciences** 112:12110-12115 doi:10.1073/pnas.1508133112 (Covered by: *Chemical and Engineering News, Canadian Broadcasting Company, American Academy for the Advancement of Sciences, Phys.org*,)
- 208) *Clements CS, Hay ME. 2015. Competitors as accomplices: seaweed competitors hide corals from predatory starfish. **Proceedings of the Royal Society B** 20150714. http://dx.doi.org/10.1098/rspb.2015.0714 (Covered by *Nature, Scientific American*, etc.)
- 207) *Gibbs DA, Hay ME. 2015. Spatial patterns of coral survivorship: Janzen-Connell effects versus other drivers of localized mortality for brooding corals. Peer J https://peerj.com/articles/1440/
- 206) *Longo GO, Hay ME. 2015. Does seaweed-coral competition make seaweeds more palatable? **Coral Reefs** 34: 87-96. DOI 10.1007/s00338-014-1230-6
- 205) #Dixson DL, Abrego D, Hay ME. 2014. Chemically-mediated behavior of recruiting corals and fishes: a tipping point that may limit reef recovery. **Science** 345:892-897 (Received a Web-of-Science "Highly Cited" designation) (*Science* has retracted this paper due to questions of data manipulation the lead author is appealing the decision. The paper will be deleted or remain based on the outcome of that appeal)
- 204) Vergés A, Steinberg PD, Hay ME, Poore AG, Campbell AH, Ballesteros E, Heck Jr. KL, Booth D, Coleman MA, Feary D, Figueira W, Langlois T, Marzinelli EM, Mizerek T, Mumby PJ, Nakamura Y, Roughan M, van Sebille E, Sen Gupta A, Smale DA, Tomas F, Wernberg T, Wilson SK. 2014. The tropicalisation of temperate marine ecosystems: Climate-mediated changes in herbivory cause community phase shifts. Proceedings of the Royal Society B 281: 20140846. http://dx.doi.org/10.1098/rspb.2014.0846 (Received a Web-of-Science "Highly Cited" designation [top 1%] and "Hot Paper" citation [top 0.1%])
- 203) #Shearer TL, Snell TW, Hay ME. 2014. Gene Expression of corals in response to macroalgal competitors. **PLoS ONE** 9(12): e114525. doi:10.1371/journal.pone. 0114525
- 202) Hay ME. 2014. Challenges and opportunities in marine chemical ecology. **Journal of Chemical Ecology** 40: 216-217. DOI 10.1007/s10886-014-0393-5 (Invited essay for the 40th Anniversary Edition of the Journal)
- 201) #Bonaldo RM, Hay ME. 2014. Seaweed-coral interactions: variance in seaweed allelopathy, coral susceptibility, and potential effects on coral resilience. **PLoS ONE** 9(1): e85786. doi:10.1371/journal.pone.0085786
- 200) *Rasher DB, Hay ME. 2014. Competition induces allelopathy but suppresses growth and antiherbivore defence in a chemically rich seaweed. **Proceedings of the Royal Society B** 281: 1-9 http://dx.doi.org/10.1098/rspb.2013.2615
- 199) *Goodman KM, Hay ME. 2013. Activated chemical defenses suppress herbivory on freshwater red algae. **Oecologia** 171: 921-933. (DOI) 10.1007/s10886-012-0204-9
- 198) Hay ME, *Kicklighter C. 2013. Grazing, Effects of, In: Levin S.A. (ed.) Encyclopedia of Biodiversity, second edition, vol. 4, pp. 8-17. Waltham, MA: Academic Press
- 197) *Rasher DB, Hoey A, Hay ME. 2013. Consumer diversity interacts with prey defenses to drive ecosystem function. **Ecology** 94: 1347-1358. (Rasher received the 2013 George Mercer Award for this paper from the Ecological Society of America. The award recognizes the outstanding

- publication of the previous two years by a young (<40) ecologist.) (Received a Web-of-Science "Highly Cited" designation)
- 196) #Dixson DL, Hay ME. 2012. Corals chemically cue mutualistic fishes to remove competing seaweeds **Science** 338: 804-807 (Covered in Science, Nature, New York Times, Scientific American, National Geographic, Smithsonian Magazine, Chemical and Engineering News, Science News, New Scientist, LA Times, Discover Magazine, Voice of America, Canadian Broadcasting Company, etc.)
- 195) Teasdale ME, # Shearer TL, # Engel S, Alexander TS, Fairchild CR, Le Roch K, Prudhomme J, Aalbersberg W, Hay ME, Kubanek J. 2012. Bromophycoic acids: Bioactive natural products from a Fijian red alga Callophycus sp. **J. Org. Chem.** 77:8000-8006 10.1021/jo301246x
- 194) #Shearer TL, * Rasher DB, Snell TW, Hay ME. 2012. Gene expression patterns of the coral Acropora millepora in response to contact with macroalgae. **Coral Reefs** 31: 1177-1192 (DOI) 10.1007/s00338-012-0943-7
- 193) *Andras TD, Alexander TS, Gahlena A, Parry RM, Fernandez FM, Kubanek J, Wang MD, Hay ME. 2012. Seaweed allelopathy against coral: surface distribution of seaweed secondary metabolites by imaging mass spectrometry. **J. Chem. Ecol.** 38:1203-1214; 10.1007/s10886-012-0204-9
- 192) Cervantes S, Stout EP, Prudhomme J, # Engel S, Bruton M, Cervantes M, Carter D, Tae-Chang Y, Hay ME, Aalbersberg W, Kubanek J, Le Roch K. 2012. High content live cell imaging for the discovery of new antimalarial marine natural products. **BMC Infectious Diseases** 12:1 doi:10.1186/1471-2334-12-1
- 191) *Morrison WE, Hay ME. 2012. Are lower latitude plants better defended? Palatability of freshwater macrophytes. **Ecology** 93: 65–74
- 190) *Rasher DB, # Engel S, Bonito V, Fraser GJ, Montoya JP, Hay ME 2012. Effects of herbivory, nutrients, and reef protection on algal proliferation and coral growth on a tropical reef.

 Oecologia 169:187-198. DOI 10.1007/s00442-011-2174-y
- 189) Long JD, Hay ME. 2012. The impact of trait mediated indirect interactions in marine communities. Pages 47-68, In: T Ohgushi, O Schmitz, and RD Holt (eds) Trait-Mediated Indirect Interactions: Ecological and Evolutionary Perspectives. Cambridge University Press.
- 188) *Marion ZH, Hay ME. 2011. Chemical defense of the Eastern Newt (*Notophthalmus viridescens*): Variation in efficiency against different consumers and in different habitats. **PLoS ONE** 6(12): e27581. doi:10.1371/journal.pone.0027581
- *Rasher DB, # Engel S, Stout EP, Kubanek J, Hay ME. 2011. Macroalgal terpenes function as allelopathic agents against reef corals. **Proceedings of the National Academy of Sciences** 108 (43) 17726-17731; doi:10.1073/pnas.1108628108 (Coverage by MSNBC.com, Science Now (Science Magazine), Time, National Geographic, Science Daily, Our Amazing Planet, Yahoo! News, Bits of Science, Fiji Broadcasting, Live Science, Wired Science, Australian Radio, the Canadian Broadcasting Corp. etc. posted on websites with more than 127 million unique visitors/month)
- 186) Lasley RS, * Rasher DB, * Marion ZH, Taylor RB, Hay ME. 2011. Predation constrains host choice for a marine mesograzer. **Marine Ecology Progress Series** 434:91-99
- 185) *Morrison WE, Hay ME. 2011. Herbivore preference for native vs exotic plants: generalist herbivores from multiple continents prefer exotic plants that are evolutionarily naïve. **PLoS ONE** 6(3): e17227. doi:10.1371/journal.pone.0017227
- 184) *Burkepile DE, Hay ME. 2011. Feeding complementarity versus redundancy among herbivorous fishes on a Caribbean reef. **Coral Reefs** 30: 351-362. DOI 10.1007/s00338-011-0726-6
- 183) Zhang J, Kubanek J, Hay ME, Aalbersberg W, Jiang R. 2011. Rapid identification of triterpenoid sulfates and hydroxy fatty acids including two new constituents from Tydemania expeditionis by liquid chromatography—mass spectrometry. **Journal of Mass Spectrometry** 46: 908-916

- 182) Hay ME. 2011. Crustaceans as powerful models in aquatic chemical ecology. Pages 41-62 in: Thomas Breithaupt & Martin Thiel (eds.) Chemical Communications in Crustaceans. Springer Science+Business Media LCC, New York.
- 181) *Morrison WE, Hay ME. 2011. Feeding and growth of native, invasive and non-invasive alien apple snails (Ampullariidae) in the United States: Invasives eat more and grow more. **Biological Invasions** 13:945–955 (DOI 10.1007/s10530-010-9881-x)
- 180) *Morrison WE, Hay ME. 2011. Induced chemical defenses in a freshwater macrophyte suppress herbivore fitness and the growth of associated microbes. **Oecologia** 165:427-436. (DOI 10.1007/s00442-010-1791-1)
- 179) Beattie AJ, Hay ME, Magnusson B, de Nys R, Smeathers J, Vincent JFV. 2011. Ecology and bioprospecting. **Austral Ecology** 36, 341–356 (DOI: 10.1111/j.1442-9993.2010.02170.x
- 178) *Rasher DB, Hay ME. 2010. Seaweed allelopathy degrades the resilience and function of coral reefs. Communicative and Integrative Biology 3: 1-4
- 177) Hay ME, * Rasher DB. 2010. Coral reefs in crisis: reversing the biotic death spiral. **F1000 Biology Reports** 2010, 2:71
- 176) *Rasher DB, Hay ME. 2010. Chemically rich seaweeds poison corals when not controlled by herbivores. **Proceedings of the National Academy of Sciences**. 107: 9683-9688. www.pnas.org/cgi/doi/10.1073/pnas.0912095107
- 175) Hay ME, * Rasher DB. 2010. Corals in crisis. The Scientist 24(8) 42-46
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- 41) Hay ME, *Duffy JE, Fenical W. 1990. Host-plant specialization decreases predation on a marine amphipod: an herbivore in plant's clothing. **Ecology** 71:733-743.
- 40) Holmlund MB, Peterson CH, Hay ME. 1990. Does algal morphology affect amphipod susceptibility to fish predation? **Journal of Experimental Marine Biology and Ecology** 139:65-83.
- 39) *Renaud PE, Hay ME, *Schmitt TM. 1990. Interactions of plant stress and herbivory: intraspecific variation in the susceptibility of a palatable versus an unpalatable seaweed to sea urchin grazing. **Oecologia** 82:217-226.
- 38) Roussis V, Pawlik JR, Hay ME, Fenical W. 1990. Secondary metabolites of the chemically-rich ascoglossan *Cyerce nigricans*. **Experientia** 46:327-329.
- 37) Hay ME, Pawlik JR, *Duffy JE, Fenical W. 1989. Seaweed-herbivore-predator interactions: host-plant specialization reduces predation on small herbivores. **Oecologia** 81:418-427.
- 36) Gil-Turnes MS, Hay ME, Fenical W. 1989. Symbiotic marine bacteria chemically defend crustacean embryos from a pathogenic fungus. **Science** 246:116-118.
- 35) Hay ME, *Duffy JE, Fenical W. 1988. Seaweed chemical defenses: among-compound and among-herbivore variance. **Proceedings of the 6th International Coral Reef Congress**. Townsville, Australia, Vol. 3:43-48.
- 34) Hay ME, *Duffy JE, Fenical W, Gustafson K. 1988. Chemical defense in the seaweed *Dictyopteris delicatula*: differential effects against reef fishes and amphipods. **Marine Ecology Progress Series** 48:185-192.
- 33) Hay ME, Fenical W. 1988. Marine plant-herbivore interactions: the ecology of chemical defense.

 Annual Review of Ecology and Systematics 19:111-145.
- 32) *Pfister CA, Hay ME. 1988. Associational plant refuges: convergent patterns in marine and terrestrial communities result from differing mechanisms. **Oecologia** 77:118-129.
- 31) Hay ME, Sutherland JP. 1988. The ecology of rubble structures of the South Atlantic Bight: a community profile. **U.S. Fish and Wildlife Service Biological Report** 85 (7.10). 67 pp.
- 30) Hay ME, Paul VJ, Lewis SM, Gustafson K, Tucker J, *Trindell R. 1988. Can tropical seaweeds reduce herbivory by growing at night?: diel patterns of growth, nitrogen content, herbivory, and chemical versus morphological defenses. **Oecologia** 75:233-245. (Synopsis of this published in BBC magazine and Insight magazine)
- 29) Hay ME, *Renaud PE, Fenical W. 1988. Large mobile versus small sedentary herbivores and their resistance to seaweed chemical defenses. **Oecologia** 75:246-252. (Synopsis of this published in BBC magazine)
- 28) Paul VJ, Hay ME, *Duffy JE, Fenical W, Gustafson K. 1987. Chemical defense in the seaweed *Ochtodes secundiramea* (Montague) Howe (Rhodophyta): effects of its monoterpenoid components upon diverse coral-reef herbivores. **Journal of Experimental Marine Biology and Ecology** 114:249-260.
- 27) Hay ME 1987. The physiological ecology of seaweeds. **Limnology and Oceanography** 32:1178-1179 (book review).
- 26) Hay ME, *Duffy JE, *Pfister C, Fenical W. 1987. Chemical defense against different marine herbivores: are amphipods insect equivalents? **Ecology** 68:1567-1580.
- 25) Hay ME, Fenical W, Gustafson K. 1987. Chemical defense against diverse coral reef herbivores. **Ecology** 68:1581-1591.
- 24) Hay ME, Fenical W. 1987. Integrating marine chemical ecology and biotechnology. Workshop Report for the Ocean Sciences Division of the National Science Foundation. 13 pp.
- 23) Hay ME, *Duffy JE. 1987. Marine natural products as ecologically sound agrochemicals and cancer drugs. **Journal of the Washington Academy of Sciences** 77:205.

- 22) Hay ME. 1986. Associational plant defenses and the maintenance of species diversity: turning competitors into accomplices. **American Naturalist** 128: 617-641.
- 21) Paul VJ, Hay ME. 1986. Seaweed susceptibility to herbivory: chemical and morphological correlates. **Marine Ecology Progress Series** 33:255-264.
- 20) Hay ME. 1986. An introduction to coastal ecology. **Ecology** 67:1437 (book review).
- 19) Hay ME, +Lee RR, +Guieb RA, +Bennett MM. 1986. Food preference and chemotaxis in the sea urchin Arbacia punctulata. Journal of Experimental Marine Biology and Ecology 96:147-153.
- 18) Hay ME. 1986. Functional geometry of seaweeds: ecological consequences of thallus layering and shape in contrasting light environments. pages 635-666 in T. J. Givnish (ed.), *On the Economy of Plant Form and Function*. Cambridge University Press, New York, New York, USA.
- 17) Hay ME. 1985. Spatial patterns of herbivore impact and their importance in maintaining algal species richness. **Proceedings of the Fifth International Coral Reef Congress** 4:29-34.
- 16) Hay ME, Taylor PR. 1985. Competition between herbivorous fish and urchins on Caribbean reefs. **Oecologia** 65:591-598.
- 15) Hay ME. 1984. Spatial escapes from herbivory and the evolution of herbivore resistance in seaweeds on coral reefs. pages 52-53 in *Advances in Reef Sciences, Atlantic Reef Committee and the International Society for Reef Studies*. Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, Florida.
- 14) Taylor PR, Hay ME. 1984. Functional morphology of intertidal seaweeds: adaptive significance of aggregate vs. solitary forms. **Marine Ecology Progress Series** 18:295-302.
- 13) Hay ME. 1984. Predictable spatial escapes from herbivory: how do these affect the evolution of herbivore resistance in tropical marine communities? **Oecologia** 64:396-407.
- 12) Hay ME, Gaines SD. 1984. Geographic differences in herbivore impact: do Pacific herbivores prevent Caribbean seaweeds from colonizing via the Panama Canal? **Biotropica** 16:24-30.
- 11) Hay ME. 1984. Coral reef ecology: have we been putting all of our herbivores in one basket? **BioScience** 34:323-324.
- 10) Hay ME. 1984. Patterns of fish and urchin grazing on Caribbean coral reefs: are previous results typical? **Ecology** 65(2):446-454.
- Hay ME, Norris JN. 1984. Seasonal reproduction and abundance of six sympatric species of Gracilaria Grev. (Gracilariaceae; Rhodophyta) on a Caribbean subtidal sand plain. Hydrobiologia 116/117:63-74.
- 8) Hay ME, +Colburn T, +Downing D. 1983. Spatial and temporal patterns in herbivory on a Caribbean fringing reef: the effect on plant distribution. **Oecologia** 58:299-308.
- 7) Hay ME, +Goertemiller T. 1983. Between-habitat differences in herbivore impact on Caribbean coral reefs. pages 97-102 in M. L. Reaka (ed.), *The Ecology of Deep and Shallow Coral Reefs*. Symposia Series for Undersea Research, Vol. 1. Office of Undersea Research, NOAA, Rockville, Maryland, USA.
- 6) +Fuller PJ, Hay ME. 1983. Is glue production by seeds of *Salvia columbariae* a deterrent to desert granivores? **Ecology** 64:960-963.
- 5) Hay ME. 1981. Herbivory, algal distribution, and the maintenance of between-habitat diversity on a tropical fringing reef. **The American Naturalist** 118:520-540. (Republished in Nybakken, J. W. 1986. *Readings in Marine Ecology*. Harper & Row Publishers, New York.)
- 4) Hay ME. 1981. The functional morphology of turf forming seaweeds: persistence in stressful marine habitats. **Ecology** 62:739-750.
- 3) Hay ME. 1981. Spatial patterns of grazing intensity on a Caribbean barrier reef: herbivory and algal distribution. **Aquatic Botany** 11:97-109.
- 2) Hay ME. +Fuller PJ. 1981. Seed escape from heteromyid rodents: the importance of microhabitat and seed preference. **Ecology** 62:1395-1399.
- 1) O'Dowd DJ, Hay ME. 1980. Mutualism between harvester ants and a desert ephemeral: seed escape from desert rodents. **Ecology** 61:531-540.

Patents

- US. Patent No. 8,481,757, U.S. Application Serial No. 13/021,171. Issued 7/9/2013. Compounds and Compositions Useful in the Treatment of Malaria (Kubanek J, ME Hay, KG Le Roch, EP Stout, AL Lane, A-S Lin) (IC)3 Ref. 4744; UC Ref. 2009-448; MBSS Ref. 9844-8
- [Discovery of novel bioactive natural products by Kubanek & Hay groups as a result of NIH-ICBG project on drug discovery from coral reef organisms in Fiji
- U.S. Provisional Patent Application filed February 12, 2009 and February 5, 2010 by Georgia Tech (serial # 61/151,952): "Antimalarial activity of bromophycolide natural products"
- [Discovery of novel bioactive natural products by Kubanek & Hay groups as a result of NIH-ICBG project on drug discovery from coral reef organisms in Fiji]
- U.S. Provisional Patent Application filed November 12, 2008 and December 1, 2009 by Georgia Tech (serial # 61/113,732): "Antibacterial neurymenolides from the Fijian red alga *Neurymenia fraxinifolia*"
- [Discovery of novel bioactive natural products by Kubanek & Hay groups as a result of NIH-ICBG project on drug discovery from coral reef organisms in Fiji]
- U.S. Provisional Patent Application filed June 17th, 2005 by Georgia Tech: "Diterpene-Benzoate Macrolides"
- [Discovery of novel bioactive natural products by Kubanek, Hay, Snell groups as a result of NIH-ICBG project on drug discovery from coral reef organisms in Fiji]
- N. L. Lindquist and M.E. Hay (patents #s 5,705,146 issued 1/6/98; and 5.905,158 and 6,084,118 issued 5/18/99) "Sunscreening compositions comprising natural products of a marine hydroid, and derivates thereof."

Research Grants

- 2025-2028. Natural processes to suppress coral disease in a changing ocean. CORDAP Coral Accelerator Program. PI: ME Hay, Co-PIs: CS Clements and G Longo (\$891,743)
- 2023-2026 The great *Sargassum* belt: a natural analogue of marine CDR. TIDES Foundation (A. Brocco, ME Hay, J Montoya, M Realff; \$400,000)
- 2022-2023. The Nature Conservancy: Reef restoration in Palmyra Lagoon; TNC covered costs of supplies, flights to and lodging on Palmyra for the initial set-up of the experiment.
- 2022-2023 Fulbright Scholar Award (Brazil: Fulbright Distinguished Scholar Award in Marine Biology and Oceanography) \$20,000 plus travel and lodging.
- 2020-2025 Positive effects of coral biodiversity on coral performance: patterns, processes, and dynamics. NSF OCE 1947522 (PI, ME Hay; CoPI, FJ Stewart; \$1,528,678)
- 2016-2027 NSF: DEB, LTER: MCR III: Long-Term Dynamics of a Coral Reef Ecosystem (PIs RJ Schmitt, RC Carpenter, PJ Edmunds, SJ Holbrook Hay is a participating investigator that gets no direct funding but has access to the LTER resources and reduced costs for field/lab work in Moorea; \$6,762,000)
- 2018-2021 Coastal tropicalisation adapting to novel ecosystems and trajectories. ARC (the Australian equivalent of NSF) (PIs Adriana Verges and Tracy Ainsworth; Partner investigators Mark Hay and Julia Cole; \$430,000-Australian \$)
- Evaluating the positive effects of coral biodiversity on the function of reef ecosystems: do species matter. The National Geographic Society NGS-57078R-19 (PIs Cody Clements and Mark Hay; \$30,000)
- 2014-2021 NIH, International Cooperative Biodiversity Groups Program (2U19TW007401-10) "Exploration, conservation, and development of marine biodiversity in Fiji and the

- Solomon Islands" (PI ME Hay; Co-PIs: J Kubanek, D Dixson, P Jensen, W Fenical, B Aalbersberg, K. Soapi. \$4,950,387) (multidisciplinary program involving Biology, Chemistry and Biochemistry, Microbiology, and Drug Discovery at Ga Tech, Scripps Inst. of Oceanography, and U. of the South Pacific)
- 2017-2018 Chemical analyses of unique edible organisms. The Coca-Cola Company (J Kubanek, F Fernandez, ME Hay; \$221,130).
- 2016-2017 Marine Proposal 1 The Coca-Cola Company (ME Hay and J Kubanek \$319,410)
- 2015-2016 Cubist Pharmaceuticals (PI ME Hay; \$30,000)
- Australian Research Council (ARC) Ecological competition between corals and algae in a high carbon dioxide world: understanding the mechanisms and implications for reef ecosystems (PI Guillermo Diaz-Pulido; Co-PIs: Peter Mumby, Mark Hay, Kenneth Anthony \$300,000 Australian dollars; Hay's role is primarily as a visiting collaborator, minimal \$ to Hay)
- 2009-2014 NSF, Biological Oceanography, (OCE 0929119; 9/15/09 8/31/14) "Killer seaweeds: Allelopathy against Fijian corals. (ME Hay \$1,204,988)
- 2009-2014 NIH, International Cooperative Biodiversity Groups Program (5 U01 TW007401-01; 9/29/09 5/31/14) "Exploration, conservation, and development of marine biodiversity in Fiji" (PI ME Hay; Co-PIs: J Kubanek, T Snell, W Fenical, P Jensen, B Aalbersberg \$4,061,097) (multidisciplinary program involving Biology, Chemistry and Biochemistry, Scripps Inst. of Oceanography, and U. of the South Pacific).
- 2009-2011 NOAA, National UnderSea Research Center and NOAA's Coral Reef Conservation Program (UNCW/NURC 2009-02-A; 1/1/09 5/31/11) "Manipulating herbivore diversity to restore coral reefs" (M.E. Hay \$150,000).
- 2009-2010 NIH, Recovery Act Administrative Supplement to the NIH grant 5 U01 TW007401-01 ((PI ME Hay; Co-PIs: J Kubanek, T Snell, W Fenical, P Jensen, B Aalbersberg \$30,900).
- 2005-2009 NIH, International Cooperative Biodiversity Groups Program "Exploration, conservation, and development of marine biodiversity in Fiji" (ME Hay, W Fenical, J Kubanek, B Aalbersberg, K Bowman, T Snell) (\$3,105,864) (multidisciplinary program involving Biology, Chemistry and Biochemistry, Sam Nunn School of International Policy, Scripps Inst. of Oceanography, and U. of the South Pacific)
- 2001-2008 National Science Foundation "IGERT: Signals in the Sea" (M.E. Hay, J. Kubanek, P. Sobecky, P. Verity, and D. Webster; \$3,096,000) (Interdisciplinary training grant involving Biology, chemistry and Biochemistry, Civil and Environmental Engineering)
- 2002-2008 NSF International Travel Supplement to the above grant (M.E. Hay, \$89,400)
- 2003-2005 NIH, International Cooperative Biodiversity Groups Program "Ecological leads: Drugs from reefs and microbes in Fiji" (ME Hay, W Fenical, J Kubanek, B Aalbersberg, K Bowman, T Snell) Grant # R21 TW006662 (\$400,497) (multidisciplinary program involving Biology, Chemistry and Biochemistry, Sam Nunn School of International Policy, Scripps Inst. of Oceanography, and U. of the South Pacific)
- 2003-2005 NSF Biological Field Stations and Marine Labs "Student Housing for Instructional Programs and Research" (J Sanders, ME Hay, R Jahnke) (\$187,500) Through Skidaway Inst. of Oceanography
- 2003-2005 NOAA, National Undersea Research Center "Herbivore Resistance to Seaweed Chemical Defenses and the Effects on Reef Community Structure." (\$100,000)
- 2003-2005 NOAA, Office of Ocean and Coastal Resource Management, "An Invasive Crab in the South Atlantic Bight: Fried or Foe?" (A. Hollebone and M.E. Hay, \$35,000)
- 2002-2003 National Park Service "Inventory of Aquatic Plants in the Chattahoochee River National Recreation Area, Georgia, USA" (J. Parker and M.E. Hay; \$10,000)
- 2001-2003 The Camille and Henry Dreyfus Foundation. "Chemical Communication in Marine Ecosystems" (J. Kubanek, M.E. Hay, and J. Yen, \$96,000)

2000-2005	National Science Foundation "Biocomplexity: The Bio-Feedback Basis of Self Organization in Planktonic Ecosystems using Phaeocystis as a Model Complex Adaptive System" (P. Verity, M.
	Frischer, M.E. Hay, and B. Patten, \$2,597,481 total, \$661,237 to Hay)
1998-2000	National Undersea Research Center (NOAA) "Direct and Indirect Effects of Temperate
	Reef Herbivores on Benthic Community Structure and on How This Affects Reef fish
	Recruitment and Habitat Use" (\$76,000)
1998-1999	The National Geographic Society. "Ecological and Biochemical Consequences of Seaweed
	Spawning on Coral Reefs" (K. Clifton and M.E. Hay) (\$30,000)
1997-1999	New Zealand Foundation for Research, Science, and Technology. "Causes and
	Consequences of Intraspecific Variation in Seaweed Chemical Defenses" (\$140,780 NZ
	dollars = about \$97,138 US dollars; allows a post-doctoral fellow from New Zealand to
1007	acquire expertise in aquatic chemical ecology by spending 2 years in my lab)
1997	North Carolina Sea Grant. "Evaluation of Leased Bottom Areas as Habitat for Estuarine
1006 2000	Species" (H. Summerson, with M. E. Hay serving as faculty sponsor) (\$64,371)
1996-2000	National Science Foundation. "Quantitative Aspects of Prey Chemical Defenses"
1996	(\$380,000) National Underson Research Center (NOAA), "The Releast Floating Squaggerym Hebitat in
1990	National Undersea Research Center (NOAA). "The Role of Floating <i>Sargassum</i> Habitat in Mediating Predator-Prey Interactions Among Pelagic Fishes on the Continental Shelf of
	North Carolina" (C.H. Peterson, R. Luettich, N. Lindquist, and M. E. Hay) (\$4,500)
1995-2000	National Oceanic and Atmospheric Administration. "Human Environmental Linkages in
1775 2000	the South Florida Coastal Ecosystem: Effects of Natural and Anthropogenic Stressors" (M.
	Harwell and 26 Co-Principal Investigators) (\$6,000,000+ Total; \$221,000 to Hay)
1995-1998	National Marine Fisheries Service. (MARFIN) "Recruitment and Habitat Utilization of
	Juvenile Gag Grouper: Which Components of Estuarine Habitats are Critical?" (P.S. Levin
	and M.E. Hay) (\$279,676)
1994-1997	National Science Foundation. "Collaborative Research: Herbivory on Freshwater
	Macrophytes: Quantifying Plant Damage and Mechanisms of Plant Resistance" (D.M.
	Lodge and M.E. Hay) (\$175,000 to Hay)
1994-1995	Cooperative Institute for Fisheries Oceanography (NOAA). (C.H. Peterson, R.A. Luettich,
	N. Lindquist, and M.E. Hay) "The Role of Floating Macroalgal Habitat in Promoting the
1004 1006	Biodiversity of the Sargassum Ecosystem" (\$24,765)
1994-1996	National Undersea Research Center (NOAA). (M. E. Hay and P. Levin) "Seaweed Beds as
	Critical Habitats for Recruiting Fishes on Temperate Reefs: Field Manipulations to
1992-1995	Determine Patterns and Processes" (\$35,000 direct; with facilities \$63,800) National Science Foundation. "Accomplishment Based Renewal: Quantitative Aspects of
1992-1993	Prey Chemical Defenses" (\$344,525)
1992-1994	National Undersea Research Center (NOAA). (M. E. Hay and N. L. Lindquist) "Fish-
1002 100 .	Seaweed-Urchin Interaction on Temperate Reefs of the Continental Shelf" (\$43,000 direct;
	with facilities \$96,500)
1992-1994	National Undersea Research Center (NOAA). (N. L. Lindquist and M. E. Hay) "The Role
	of Secondary Metabolites in Reducing Invertebrate Egg and Larval Mortality From
	Predation and UV Exposure" (\$40,000 direct; with facilities \$73,500)
1991-1993	Dept. of Energy Distinguished Post-Doctoral Fellowship in Global Change awarded to
	Niels Lindquist (with M. E. Hay as faculty sponsor) for investigations on "Larval Chemical
	Defenses Against UV" (\$79,200)
1991	National Undersea Research Center (NOAA). (M. E. Hay w/N. Lindquist) "The Chemical
1000 1002	Ecology of Invertebrate Larvae" (\$7,014 direct; with facilities \$19,004)
1990-1992	National Science Foundation. (M. E. Hay and W. Fenical) "Quantitative Aspects of
	Seaweed Chemical Defense: Complex Interactions of Environment, Seaweed Chemistry, and Resistance to Herbivory" (\$165,089)
1991	REU Supplement to above grant (\$5,000)
1//1	THE Supplement to accide grant (40,000)

1991	Glaxo Inc., Research Institute. "Bioactive Marine Natural Products" (\$10,000)
1989-1992	National Science Foundation. "The Ecology of Temperate Herbivorous Fishes" (\$225,989)
1989-1991	National Science Foundation. (N. L. Lindquist w/M. E. Hay as faculty sponsor) "Interactive Aspects of Seaweed Chemical Defenses and a Functional Evaluation of
	Ascidian Secondary Metabolites" (\$81,960)
1988	University Research Council. "The Chemical Ecology of Seaweed-Herbivore Interactions"
1,00	(\$1,644)
1987-1989	National Science Foundation. "Herbivory by Temperate Marine Fishes and the
	Organization of Benthic Seaweed Communities" (\$140,260)
1987-1989	National Oceanic and Atmospheric Administration. (M. E. Hay and J. Wells) "Effects of
	Feral Horses on the Production, Distribution, Abundance, and Stability of Salt Marsh
	Plants: Rachel Carson Sanctuary, North Carolina" (\$72,506, 2.5 yr. total)
1987-1988	National Geographic Society. "Chemical Defense Against Marine Herbivores" (\$15,329)
1987-1988	The Charles A. Lindbergh Fund. (M. E. Hay and J. E. Duffy) "Marine Natural Products as
	Ecologically Sound Agrochemicals and Oncologic Drugs" (\$10,482)
1986-1988	Australian Museum. "Chemical Defense Against Diverse Coral Reef Herbivores"
1007	(\$16,000)
1986-1987	National Science Foundation. (M. E. Hay and W. Fenical) "Integrating Marine Chemical
1986-1987	Ecology and Biotechnology" (\$10,000) N. C. Biotechnology Center. "Seaweed Secondary Metabolites as Agrochemicals and
1900-1907	Oncologic Drugs" (\$22,211)
1985	North Carolina Biotechnology Center. "Pharmacological Properties of Natural Products
1700	Produced by North Carolina Marine Organisms" (\$4,000)
1985	NOAA, National Undersea Research Program, HYDROLAB. (M. E. Hay and V. J. Paul)
	"Productivity, Nocturnal Growth, Chemical Defenses, and Susceptibility to Herbivory:
	Does Halimeda Minimize Herbivory by Growing at Night?" (\$8,289)
1985	University Research Council. "Secondary Compounds from Seaweeds: Their Function in
	Nature and Potential for Use in Biomedical and Agricultural Applications" (\$1,500)
1985	IBM Junior Faculty Development Award. "The Functional Morphology of Light
1002	Harvesting in some Tropical Seaweeds" (\$3,000)
1983	N. C. Board of Science and Technology. "The Effect of Light Quality on the Productivity
1002	and Distribution of Aquatic Plants" (\$9,000) NOAA, Southeast Undersea Research Facility. "Interrelationships between Herbivorous
1983	Fishes and Urchins on Heavily Fished and Protected Reefs in the Florida Keys" (28 days
	of shiptime at approximately \$4,000/day)
1983	Smithsonian Institution grant for work in Aldabra. (J. N. Norris and M. E. Hay)
1703	"Herbivory and Algal Distribution on Aldabra Atoll" (\$6,000)
1982	University Research Council. "Algal Productivity and Seasonality of Light" (\$1,500)
1982-1984	Smithsonian Institution, Ft. Pierce Research Grant. (J. N. Norris and M. E. Hay) "Algal-
	Herbivore Interactions: Geographical Testing of Herbivore Susceptible Seaweeds on
	Subtropical Worm-Reefs versus Tropical Reef Systems" (\$6,500)

Teaching Experience

Major advisor for the following students:

- Catherine A. Pfister (Marine Sciences, M.S. May 1987; Prof. at Univ. of Chicago)
- Paul E. Renaud (Marine Sciences, M.S. August 1988; now Senior Scientist, High North Research Center, Tromso, Norway)
- Terry Brunone (Biology, M.S. December 1988; supervisor at BioAbstracts)

- J. Emmett Duffy (Marine Sciences, Ph.D. December 1989; Professor and Chair at the Virginia Institute of Marine Sciences; then Director of the Tannenbaum Marine Observatories Network, National Museum of Natural History, Smithsonian Institution)
- Laura Matthews (Marine Sciences, M.S. August 1991; an aquarist)
- Timothy Schmitt (Marine Sciences, M.S. September 1991; an ecologist at Engineering Science, Inc.)
- Robbin Trindell (Marine Sciences, Ph.D. December 1991; Director of the Florida Fish and wildlife Conservation Commission sea turtle management program)
- Gregory Cronin (Marine Sciences, Ph.D. Dec. 1994; Professor at Univ. of Colorado, Denver)
- Margaret Miller (Ecology, Ph.D. Dec. 1994; was a Lead Scientist at NOAA National Marine Fisheries Service, Miami, FL; 2017 moved to become Research Director of SECORE International)
- Robin Bolser (Marine Sciences, M.S. August 1995; then a Ph.D. student at UC Santa Barbara; she received a UC Regents Fellowship, an NSF pre-doctoral fellowship, and an EPA pre-doctoral fellowship I've lost contact with her and don't know her present position)
- Edwin Cruz-Rivera (Marine Sciences, Ph.D. August. 1998; Associate Professor of Biology, University of the Virgin Islands
- Mike Deal (Marine Sciences, Ph.D. August 1997; polymer chemist as a biotech company in southern California, Then Post-doc at UC Santa Barbara, now Professor at a college in Southern California)
- Jay Stachowicz (Marine Sciences, Ph.D. May 1998); Mercer Award winner 2004; Professor of Evolution and Ecology, University of California, Davis
- Stephan Bullard (Marine Sciences, Ph.D. May 2000, Assoc. Prof at University of Hartford)
- Daniel Malone (Biology, M.S. Dec. 1997; now a research biologist at UC, Santa Cruz)
- Giancarlo Cetrulo (Marine Sciences, M.S. Sept. 1998; COSEE Florida Program Manager,
- Ocean Research and Conservation Association, INC (ORCA), Fort Pierce, FL)
- Stephanie Wear (Marine Sciences, M.S. May 2000; Senior Scientist and Strategy Advisor: The Nature Conservancy)
- Erik Sotka (Biology, Ph.D. 2001; Prof. College of Charleston
- Cynthia Kicklighter, Biology, Ph.D. 2003; Prof. of Biology, Goucher College
- Jeremy Long (Biology Ph.D., 2004; Associate Prof. San Diego State University)
- John Parker (Biology Ph.D. ,2005; now Lead Scientist, Smithsonian Environmental Research Center, Edgewater, MD)
- Deron Burkepile (Biology Ph.D., 2006; Professor, University of California at Santa Barbara)
- Alan Wilson (Biology PhD, 2006; now Associate Prof. Auburn University)
- Amanda Hollebone (Biology, Ph.D., 2006; now faculty at Westminster School)
- Wendy Morrison (Biology Ph.D., 2010, now Staff Scientist NOAA, National Marine Fisheries Service)
- Zach Marion (Biology MS 2010, then to a Ph.D. program at U Tenn)
- Keri Goodman (Biology, MS 2011; then on to a Ph.D. at U. Georgia)
- Melanie Heckman (Biology, MS 2011, Manager of the education program at Decatur Community Garden)
- Doug Rasher (Biology Ph.D., 2012; Senior Research Scientist at the Bigelow Lab for Ocean Sciences)
- Tiffany Andras (Biology MS, 2012; running a business)
- David Gibbs (Biology M.S. 2014; Environmental Consultant with a firm in Washington, DC)
- Claire Dell (Biology Ph.D., 2016; Research Scientist, CCMI, Little Cayman Island)
- Cody Clements (Biology Ph.D. 2017; Post-doc at Ga Tech)
- Cara Lin (Biology M.S. 2018; Marine educator at a NGO in Florida)
- Deanna Beatty (Biology Ph.D., 2018; Now a bioinformatic data scientist at the Joint Genome Institute, Lawrence Berkeley National Lab)

- Nicole Johnston (Biology Ph.D., 2020; Assistant Prof., Spelman College)
- Madeline Willert (Biology Ph.D., 2022; KANAUS Post-doc then staff scientist with NOAA in Washington DC)
- Cameron Perry (Biology Ph.D., 2024; I'm a co-advisor with Frank Stewart; Cameron is now a Staff Scientist at the Georgia Aquarium)
- Noam Altman-Kurosaki (Biology Ph.D., 2025; Smithsonian Institution Post-doc)
- Stephanie Bilodeau (Biology Ph.D., presently in program)
- On graduate committees for numerous other students in Ecology, Biology, and Marine Sciences at UNC-CH, Duke University, Georgia State University, the Univ. of Notre Dame, and Brigham Young University. Also advised visiting graduate students or faculty that conducted research in my lab. These include investigators from Max-Planch Inst. of Chemical Ecology; U. of Michigan; U. of Guam; and U. of the Western Cape-South Africa; Universidad de las Palmas, Canary Islands; Univ. of Bonn, Germany; Texas A&M University; Universidade Federal Fluminense, Niteroi, Rio de Janeiro, Brazil; James Cook University, Townsville Australia
- <u>External Ph.D. Examiner</u>: University of New South Wales (Australia); Gothenberg University (twice); National University of Singapore.
- Post Doctoral Fellows (present positions)
 - Dr. Niels Lindquist (Professor in Marine Sciences at UNC-CH)
 - Dr. J. Emmett Duffy (The Tannenbaum Chair at the Smithsonian Institution)
 - Dr. Martin Wahl (Professor, University of Kiel, Germany)
 - Dr. Philip Levin (Fisheries Scientist, NW Fisheries Science Center, Seattle, WA)

Richard Taylor (Associate Professor, Univ. of Auckland, New Zealand)

John J. Stachowicz (Professor and Chair at UC, Davis)

Chris Caudill (Research Scientist, Fish and Wildlife, Univ. of Idaho)

Todd Barsby (Associate Prof. University of Ontario Institute of Technology)

Gabriella Smalley (Associate Prof. Rider University)

Nancy Schoeppner (Teaching)

Sebastian Engel (now at NIH)

Roberta Bonaldo (Post-doc in Brazil)

Danielle Dixson (Assistant Professor, University of Delaware)

Tonya Shearer (Founder and CEO of Discover Science Center)

Esther Ngumbi (a Schlumberger Foundation Fellow) – now at Auburn U.

Andrey Hoey (Faculty at James Cook University)

Douglas Rasher (Sr. Scientist, Bigelow Labs)

Guillherme Longo (Assistant Professor, Universidade Federal do Rio Grande do Norte - UFRN)

Jinu Mathew Valayil (Research grants officer, Indian Institute of Science, Bengaluru, India)

Andrew Burns (now at NIH)

Deanna Beatty (Post-doc at UC, Davis)

Cody Clements (presently in my lab)

- Visiting Faculty (that stayed more than a few weeks)

Professor Valerie Paul (Univ. of Guam, 3 months, 1990)

Professor David Lodge (Univ. of Notre Dame, 1 year 1992-93; then 0.5 to 1 mo/year 1994-96

Professor Angel Luque (Univ. de las Palmas, 3 months, 1992)

Professor Pasqual Caballero (Univ. de las Palmas, 1 month, 1992)

Assistant Professor Philip Levin (Texas A&M Univ., 3 mo/yr - 1995, 96, 97) Dr. Andrew Hoey (James Cook University, 2 months in 2011; Churchill Fellow)

Georgia Institute of Technology

2025 2024 2023	(Spring) Marine Ecology (16 undergrads and 9 graduate students) (Spring) Aquatic Chemical Ecology (8 undergrads and 8 grad students) In 2023, I received a Faculty Development Leave to serve as a Distinguished Fulbright Scholar in Brazil and was relieved of teaching duties at GT. However, due to teaching needs within the School, I voluntarily taught the first 1/3 rd of Marine Ecology (BIOS 4417/6417 – 8 undergrads and 10 grad students); it was then taken over by AP Dr. Alex Draper as I departed for Fulbright duties in Brazil.
2022	(Spring) Aquatic Chemical Ecology BIoSci 4620/6620 (2 undergrads/ 8 grads) (Winter) I taught an intensive short-course on Marine Chemical Ecology to 10 Ph.D. students and Post-docs at the Universidade Federal do Rio Grande do Norte in Natal, Brazil
2021	(Spring) Marine Ecology BioSci 4417/6417 (20 undergrads/13 grads) (Spring) Advances in Ecology BioSci 7923 (8 grad students: co-taught with M. Weissburg)
2020	(Spring) Aquatic Chemical Ecology BIOL 4620/6620 (8 undergrads/ 7 grads) (Spring) Special topics in Marine Ecology BIOL 8801 (5 grad students)
2019	(Spring) Marine Ecology Biol4417/6417 (9 undergrads/7 grads) (Spring) Special topics in Marine Ecology BIOL 8801 (4 grad students)
2018	(Spring) Aquatic Chemical Ecology BIOL 4620/6620 (8 students) (Spring) Special topics in Marine Ecology BIOL 8801 (4 grad students)
2017	(spring) Marine Ecology BIOL 4417/6417 (14 undergrad/ 10 grad students) (spring) Special topics in Marine Ecology BIOL 8801 (6 grad students)
2016	(spring) Aquatic Chemical Ecology BIOL 4620/6620 (10 undergraduates/ 4 grad students)
	(spring) Special topics in marine Ecology BIOL 8801 (4 grad student)
2015	(spring) Marine Ecology BIOL 4417/6417 (18 undergrad/ 7 grad students) (spring) Special topics in Marine Ecology BIOL 8801 (6 grad students)
2014	(spring) Aquatic Chemical Ecology BIOL 4620/6620 (13 undergraduates/ 6 graduates) (spring) Special topics in marine Ecology BIOL 8801 (5 grad and 1 UG student)
2013	(spring) Marine Ecology BIOL 4417/6417 (33 undergraduates/ 8 graduate students) (spring) Special topics in marine Ecology BIOL 8801 (8 graduate students)
2012	(spring) Aquatic Chemical Ecology BIOL 4620/6620 (14 undergraduates/ 10 graduates)
2011	(Spring) Marine Ecology BIOL 4417/6417 (40 undergraduates/10 graduates)
2010	(Spring) Introductory Biology BIOL 1510 (co-taught with Choi and Hammer) (304 students)
2009	(Spring) Marine Ecology (25 students) (Fall) Aquatic chemical Ecology (27 students)
2008	(Summer) Experiments in Aquatic Chemical Signaling (6h, 6 students, Panama);
2007	(Winter) Experiments in Aquatic Chemical Signaling (6h, 8 students, New Zealand);
	(Spring) Aquatic Ecology (25 students)
2006	(Fall) Aquatic Chemical Ecology (3h, 10 students); Aquatic chemical Ecology Lab (1h)
	(Spring) Signals in the Sea (2h, 9 graduate students)
2005	(Fall) Aquatic Chemical Ecology (3h, 10 students); Aquatic chemical Ecology Lab (1h) (Spring) Signals in the Sea (2h, 9 graduate students)
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2004	(Spring) Aquatic Ecology (3h, 15 students)
	(Fall) Aquatic Chemical Ecology (3h, 12 students); Aquatic Chemical Ecology Lab (1h, 9
	students)
2003	(Spring) Aquatic Chemical Ecology (3h, 13 students)
	(Spring) Aquatic Chemical Ecology laboratory (1h, 13 students)
	(Summer) Experiments in Aquatic Chemical Signaling (6h, 11 students)
	(Fall) 3 weeks Bio II (Bio 1520) (3h, about 75 students)
2002	(Fall) Signals in the Sea Seminar (2h, 14 students)
	(Spring) Aquatic Chemical Ecology (3h, 15 students)
	(Summer) Experiments in Aquatic Chemical Signaling (6h, 11 students)
2001	(fall) Advances in Aquatic Chemical Ecology (8 students)
	(spring) Aquatic Ecology (3h, 15 students)
	(Spring) Advances in Ecology (Marine Microbial Chemical Ecology; 2h, 8 students)
2000	(fall) Advances in Ecology (Economics and Ecosystem Function) 7 students
	(spring) Aquatic Ecology (3h, 20 students)
1999	(fall) Ecology Seminar, "Signals in the Sea" (2h, 5 students, 12-15 participants)
	(spring) Senior Seminar (1h, 11 students)
	(spring) Ecology Seminar, "Ecological Function of Biodiversity" (2h, 8 students)

University of North Carolina:

1997	- (spring) Marine	Ecology (BIOL	146/MASC 146); 76 students

1995 - (spring) Marine Ecology (MASC 146 and BIOL 146).

1994 - (summer) Biological Oceanography.

1993 - (spring) Marine Ecology (MASC 146 and BIOL 146).

1992 - (summer) Biological Oceanography.

1991 - (fall) Graduate Seminar in Evolutionary Biology (MASC 199).

- (spring) Marine Ecology (MASC 146 and BIOL 146).

- (summer) Experimental Marine Chemical Ecology (MASC 199).

1983-1989 - (summer) Experimental Marine Ecology (MASC 199); offered collaboratively with Duke University.

- (spring) graduate seminar in Marine Benthic Ecology.

1983-1991 - Guest lecturer (on average about 1 week/course) for Biological Oceanography (MASC 104), Geological Oceanography (MASC 103), Oceanography (MASC 101), Marine Ecology (MASC

146).

1983 - Special Problems in Marine Biology (MASC 141S).

- I commonly have <u>undergraduates and visiting graduate students</u> conducting independent research projects in my lab, and I have especially tried to involve minority students. As examples, I list below the students that studied in my lab during 1990-98.

Laura Guiterez (Univ. of Houston; became a graduate student at Univ. of Houston)

Brian Chanas (UNC-CH; became a graduate student at UNC-W)

Edwin Cruz-Rivera (Univ. Puerto Rico, now a grad. student at UNC-CH)

Emma Cole (Univ. of North Wales - conducted her Honors thesis in my lab; now a graduate student at the Univ. of Western Australia)

Lisa Jones (a black female from Pembroke State Univ.)

Quaker Kappel (UNC-CH, now in Med. School)

Chris Locklear (an American Indian from Pembroke State Univ.)

Lance Miller (UNC-CH)

Rogerio Prata (UNC-CH)

Buffy Turner (a black female from Duke Univ.; left to accept a full graduate fellowship in Marine Sciences at UC, Santa Barbara)

Mike Deal (UC, Santa Barbara, now a grad. student at UNC-CH)

Walter Cephas (Univ. of Maryland, Western Shores)

Greg Smith (Hampton College)

Crystal Williams (a local high school student, now a chemical engineering major at NC State University)

Andre Share (a colored South African graduate student from the University of the Western Cape, Bellville, South Africa; now an Instructor at that University)

Immaculada Granado (a Spanish Marine Sciences graduate student from Universidad de las Palmas, Canary Islands)

Sarah Johnson (UNC-CH, accepted Peace Corps position in Paraguay)

Jack Malone (UNC-CH, attending graduate school at UCLA)

Kate Fredrick (UNC-CH, works with a European Pharmaceutical Company)

Zack Feldman (Bates College)

Mike Klompas, (UNC-CH, went to Yale Medical School)

Stephane Lewis (UNC-CH, Graduate school at UC, Santa Barbara)

Sheri Hart (UNC-CH, still here)

Joanna Rawlings (Towson State University)

Ragan McNatt (UNC-CH)

Amanda Hollebone (UNC-CH 1997)

Mike Straiko (Allegheny College 1997)

Alan Wilson (UNC-CH 1997)

Delia Johnson (UNC-CH Graduate Student in Public Health 1997)

Amy Desaix (UNC-CH 1997)

Iris Schnitzler (Univ of Bonn Graduate Student, 1996-97)

Charlie Hileman (UNC-CH Graduate student 1997)

Patricia Wokcik (Texas A&M Graduate Student, 1996-97)

Bernardo da Gama (Brazilian graduate student 1997)

Sarah Lester (UNC-CH 1998)

College of the Virgin Islands:

1982

- (spring) Ecology and Oceanography
- (summer) Experimental Marine Ecology

Symposia Presentations

- 2025 !st ISME Asia Forum and the 2025 Annual Academic Meeting of the Chinese Association for Microbial Ecology (Plenary Talk)
- 2024 International Research Conference on Island Health & Sustainability, Moorea, French Polynesia (November)
- 2023 Gordon Research Conference on Plant-Herbivore Interactions (February);
- 2017 Canadian Institute for Advanced Research and Gordon and Betty Moore Foundation workshop "Message in a Bottle: Chemical Communication at Sea, Eilat, Israel (March); Homage to RT (Bob) Paine Symposium, Benthic Ecology Meetings, Myrtle Beach, SC (April);
- 2016 Plenary talk for the 32nd Annual Meeting of the International Society of Chemical Ecology, Iguassu Falls, Brazil (July); National Academy of Sciences and Engineering Symposium on "Exploring the Chemistries of Marine Microbiomes" Washington DC (October and a Webbased Summary in December);

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- 2015 Explorers Club Annual Lowell Thomas Awards event on "Visionaries of Conservation: Paradigm Shifts in Protecting the Planet" Melborune, FL(November); *Mote* Marine Laboratory; 2nd International Workshop on Ocean Acidification Impacts to Coral Reefs, Fl Keys, (August); Plenary Speaker at the special session on Induced Defenses at the International Society of Chemical Ecology Annual Meetings, Stockholm, Sweden (June); Plenary Speaker at the Royal Swedish Academy of Sciences Jubilee Symposium on Maratime Research (to celebrate the 275th anniversary of the Academy; February); Invited speaker at the Workshop on Microscale Ocean Biophysics at the Aspen Center for Physics (January);
- 2014 Keynote Speaker for the North Florida Marine Science Symposium (St. Augustine, FL; January); Invited speaker for the Marine Natural Products Gordon Conference (Ventura, CA, March); Invited organizer and Keynote speaker for the International Society of Chemical Ecology Symposium on "Chemical cues and signals structure marine populations, communities, and ecosystems" (Urbana-Champaign, IL, July); Invited speaker for American Society of Pharmacognosy (ASP) Chemical Ecology Symposium (Oxford, MS; August);
- 2013 Plenary speaker for the IV Latin American Congress of Algal Biotechnology (Florianópolis, Brazil); Walker Foundation and Georgia Aquarium Workshop on Actualizing Market Approaches to Coral Reef Restoration (Atlanta, GA); Gulf of Mexico Fisheries Management Council Symposia on Interrelationships between Coral Reefs and Fisheries (Tampa, FL); Plenary speaker for U. Missouri Annual Life Sciences Celebration; Invited Speaker Shifting species interactions and the tropicalisation of temperate marine ecosystems, Evolution and Ecology Research Center, Sydney Institute of Marine Sciences (Sydney, Australia)
- 2012 PERC and Georgia Aquarium Workshop on Market Approaches to Coral Reef Restoration:
 Investigating the Viability (Key Largo, FL); 2012 Teasley Symposium "Seaweed-Coral
 Interactions and the Structure and Function of Coral Reefs" (Atlanta, GA); Special Session on
 "Seaweed-Coral Interactions" International Coral Reef Society Meetings (Cairns Australia);
 NOAA's Workshop Concerning biological status review of 82 species of corals considered for
 listing under the Endangered Species Act (Ft. Lauderdale, FL);
- 2011 Plenary speaker for the special session, "Biochemicals in Action in Trophic Interactions: Their role in information transfer and nutritional quality" at the American Society of Limnology and Oceanography (ASLO) 2011 Aquatic Sciences Meeting (San Juan, PR)
- Joint Meetings of the American Society of Plant Biologists and the Phycological Society of America special Symposium on "Coral Reefs" (July, Honolulu, Hawaii); International Society of Ecology Annual Meetings special Symposium on "Ecological models for bioprospecting" (August, Brisbaine, Australia); Ecological Society of America Workshop on "Are invasive species different?" (August, Albuquerque, NM); Joint meetings of The Crustacean Society and the Carcinological Society of Japan special Symposium on "Integrative Biology: Crustaceans as Model Systems" (September, Tokyo, Japan).
- 2008 Frontiers in Multi-Scale Systems Biology Conference, Georgia Tech.
- 2007 Key Note Address for the Chemical Interactions Session at the 42nd European Marine Biology Symposium (August, Kiel, Germany); Center for Ocean Science Education Excellence 2007 Ocean Science Leadership Institute (July, Skidaway, GA)
- 2006 Fenical Symposium on Marine Natural Products Chemistry (Scripps Inst. of Oceanography, La Jolla, CA); Invited speaker for EU workshop on methods in chemical ecology (Tjerno Marine Biological Laboratory, Stromstad, Sweden);
- 2005 Organized and spoke at Teasley Symposium on "Ecosystem Engineering" (Tampa, FL); Invited Speaker, ASLO symposium on "Chemical signaling in the Plankton" (Santiego de Compostela, Spain);
- 2004 Plenary Speaker for the DECHEMA symposium on "Aktuelle Entwicklungen in der Naturstoffforschung" (Feb 27, Kloster Irsee, Bavaria); Plenary Speaker for the Southeastern Ecology and Evolution Conference, (March, Atlanta Georegia); Invited speaker for the Delwart Foundation

- symposium on "From Chemcial communication to Artificial Olfaction" (Oct. 22, Louvain-la-Neuve, Belgium)
- 2003 Invited Speaker for Opening Symposium on "Forests of Land and Sea" at the Plant Canada 2003 Meeting (joint meeting of the Canadian Botanical Association and the Canadian Society of Plant Physiology: Antigonish, Nova Scotia)
- 2001 Plenary Speaker for the Phycological Society of America Annual Meetings (Estes Park, CO)
 Invited Speaker for the International Society of Chemical Ecology Annual Meeting Symposium
 on Aquatic Chemical Ecology (Tahoe City, CA)
 Invited Speaker for the International Phycological Society Meetings Symposium on Chemical
 Ecology (Greece) (cancelled due to schedule conflicts)
- Featured Speaker for the State of the Art in Biology (SOTAB) Symposium (University of Georgia, Athens, GA);
 Invited speaker for the special session on Chemical Ecology/Natural Products at the Conference on sustainability of wetlands and Water Resources (University of Mississippi, Oxford, MS)
- 1999 Keynote Speaker for "The 8th Symposium on the Natural History of the Bahamas" (San Salvador, Bahamas)
 Plenary Speaker at the National Coral Reef Institute's Symposium on "Scientific aspects of coral reef assessment, monitoring, and restoration" (Fort Lauderdale, FL)
- 1998 Georgia Institute of Technology Workshop on Aquatic Chemical Ecology (Atlanta, Ga)
- Keynote Address at the 1997 Ontario Plant-Herbivore Workshop (Univ. of Toronto at Mississauga, Canada)
 Featured Speaker at the Max-Planck Society Symposium on "Perspectives in Aquatic Ecology" (Marburg, Germany)
- 1996 Featured Speaker for the Reunion Internacional de Ecologia Quimica in Oaxtepec, Morales, Mexico; Pleanary Speaker for the 8th International Coral Reef Symposium (Panama City, Panama),
 - Invited speaker for the Symposium on "Are Calcareous Algae Important on Coral Reefs Today or in the Past?" (Panama City, Panama)
 - Invited Speaker at a meeting on "Human-environment linkages in the South Florida coastal ecosystem: Effects of natural and anthropogenic stressors" (Miami, FL) Elderhostel Symposium (University of North Carolina at Chapel Hill)
 - NOAA Coastal Ocean Program, first Annual Meeting (Univ. of Miami)
- The Gordon Research Conference on "Plant-Herbivore Interactions" (Oxnard, CA),
 Featured Speaker (two talks) at the 11th Annual Perspectives in Biology Symposium (Wake Forest University, Winston-Salem, NC)
 Elderhostel Symposium (University of North Carolina at Chapel Hill)
- 1994 Featured Speaker at the Max-Planck Society Symposium on "Chemical Ecology" (Munich, Germany)
 - The Center for World Environment and Sustainable Development Biodiversity Symposium on "Conservation and Utilization of Genetic Diversity" (Chapel Hill, NC)
 - Sutherland Symposium (in honor of John Sutherland, held in conjunction with the 1994 Benthic Ecology Meetings (Mystic, Connecticut)
 - National Academy of Sciences Colloquium on "Chemical Ecology: The Chemistry of Biotic Interactions" (Washington, DC)
 - National Undersea Research Center (NOAA) Symposia on Temperate Reefs in the South Atlantic Bight (Georgetown, South Carolina)
 - National Oceanic and Atmospheric Administration workshop on "Remote Sensing of Coral Reefs" (Boston, MA)
- 1993 AAAS Symposium on "Chemical Communication in the Plant and Animal Worlds" (Boston, MA)
 - International Chemical Ecology Symposium on "Marine Chemical Ecology" (Clearwater, FL)

- International Chemical Ecology Symposium on "Tropical Ecology" (Clearwater, FL)
 University of the Western Cape Visiting Professorship to teach a 3-week course in Chemical
 Ecology (Bellville, South Africa)
- 1991 National Audubon Society Symposium on "Coastal Wetland Ecology and Management (New Orleans, LA)
- 1992 Gordon Conference on "The Chemistry of Plant-Herbivore Interactions" (Oxnard, CA)
- 1990 Mid-Atlantic Marine Education Association Workshop for Educators (Beaufort, NC) Systematics Association and the Marine Biological Association of the United Kingdom Symposium on "Plant-Animal Interactions in the Marine Benthos" (Liverpool, England) American Society of Limnology and Oceanography Symposium on "Complex Ecological Systems and Indirect Effects: The Experiment Theory Interface" (Williamsburg, VA) Western Society of Naturalists' Symposium on "Ecological Impacts of Herbivores" (Monterey, CA)
- 1989 Gordon Conference on "The Chemistry of Plant-Herbivore Interactions" (Oxnard, CA)
 Indo-US international conference on "Bioactive Compounds from Marine Organisms" (Goa, India)
- 1988 Smithsonian Institution workshop on "Mangrove Ecology" (Solomons, MD)
- 1987 The Charles A. Lindbergh Symposium on "Exploring the Human Future: Prospects for a Better Balance" (Little Falls, MN)
 - NOAA's Office of Undersea Research Symposium on "Undersea Science" (Mystic, CT)
- North Carolina Biotechnology Center Symposium on "Marine Biotechnology" (Beaufort, NC)
- 1986 Western Society of Naturalists' Symposium on "Chemical Antiherbivore Defenses of Seaweeds" (Hilo, HI)
 - Gordon Conference on Marine Natural Products (Oxnard, CA)
- 1985 Ecological Society of America's Symposium on "Food Web Structure and Ecosystem Productivity" (Minneapolis, MN)
 - The Fifth International Coral Reef Congress' Symposium on "Plant-Herbivore Interactions" (Tahiti, French Polynesia)
 - Universidad de Concepcion/UNESCO Sponsored Symposium on "Quimica y Ecologia de las Algas Marinas Bentonicas" (Concepcion, Chile)
- 1983 The Eleventh International Seaweed Symposium's Special Session on "*Gracilaria*" (with J. Norris) (Qingdao, China)
 - NOAA's Symposia Series for Undersea Research "The Ecology of Deep and Shallow Coral Reefs" (Philadelphia, PA)
 - Maria Moors Cabot Symposium on "Evolutionary Constraints on Primary Productivity: Adaptive Patterns of Energy Capture in Plants" (Harvard Forest, MA)

Invited Seminars

- 2025 Georgia State University (February); Texas A&M University (April);
- 2024 University of Florida, Bob Holt Seminar Series (April); International Forum on Advanced Environmental Sciences and Technology (iFAST) co-organized by The University of Oklahoma (OU) and Central South University (CSU), Changsha, China (May); Marine Sciences Program, University of the Virgin Islands (May); UC, Berkeley, Gump field Station (November)
- 2023 Universidad de São Paulo, Brazil (April); Dauphin Island Sea Lab (May); TNC's lab on Palmyra Atoll (July); LTER Meeting UC Santa Barbara (December)
- University of Iceland (May); University of North Carolina at Chapel Hill (Sept.); Universidade Federal do Rio Grande do Norte (Natal, Brazil) (Sept.);
- 2020 The Explorers Club, Atlanta Chapter (February); GaTech Tri-Beta Chapter (February); Ga Tech

- Center for Microbial Dynamics and Infection (October); Moorea Coral Reef Long Term Ecological Research All Investigators Meeting (December)
- 2019 Strategic Planning Workshop for restarting the Biosphere 2 Ocean, Tuscon, AZ (January); University of Georgia, Marine Sciences (April);
- Ocean Science and Engineering Program, Georgia Inst. of Technology (January); Biology, Brigham Young University (March); Florida State University Coastal Marine Lab (May); Georgia Aquarium (May); University of the South Pacific (50th Anniversary Speaker Series; July); The Nature Conservancy Strategic Planning Workshop, Palmyra Atoll (November)
- 2017 Interuniversity for Marine Sciences at Eilat, Israel (March); Florida State University Coastal and Marine Laboratory (April); Florida State University, Department of Biological Sciences (April); U. South Carolina, Beaufort, Department of Natural Sciences (April); Joint meeting of The Coca-Cola company and Ga Tech's Aquatic Chemical Ecology Center (April); University of the Virgin Islands (St. Thomas, May); Max Planck Institute for Chemical Ecology, Jena, Germany-the Noble Gespräche on evening and lead a Career Development Workshop the next day (October); BESE Distinguished Lecturer, King Abdullah University of Science and Technology (November)
- 2015 Harbor Branch Oceanographic Institute/Florida Atlantic University (2 public presentations in their Ocean Science Lecture Series; February); UC Berkeley's Gump Field Station in Moorea, French Polynesia (August); University of Georgia (September); University of Southern California (Dornsife Distinguished Speaker on sustainability; December); University of California at Santa Barbara (December)
- 2014 University of Florida (January); University of Hawaii (February); 28th Annual Nathan Riser Lecturer, Northeastern University Marine Science Center (April); University of the South Pacific (June); University of Nevada, Reno (September); Pennsylvania State University (September); Kennesaw State University (September); National Geographic Society, Washington DC (September); The Robert May Lecture Princeton University (October); MIT (October);
- 2013 Ga Tech Foundation Advisory Board (December); Universidad Federal de Santa Catarina, Florianopolis, Brazil (November); University of California Santa Cruz, Department of Ecology and Evolutionary Biology (October); Sven Loven centrum for marina vetenskaper, Tjerno of Goteborgs Universitet, Sweden (September); C.E. Gehrke Distinguished Lecture at University of Missouri for the Bond Life Sciences Center Life Sciences Week (April); UNC, Chapel Hill, Global Research Institute "Water in our world speaker series" (April); Georgia Aquarium (April); Oglethorpe University, Biology dept. (February)
- 2012 Scripps Institution of Oceanography, two presentations one a regular seminar, one the Cody Lecture for Scripps Day (June 2012); International Union for the Conservation of Nature Ma'afu Marine Lecture Series, Suva, Fiji (August 2012); Institute of Applied Sciences, University of the South Pacific (August 2012);
- 2011 The 4th Annual George Grice Jr. Lecture, College of Charleston, Charleston, SC (April 2011); Brown University, Dept. of Ecology and Evolutionary Biology (Dec 2011)
- 2010 University of Kentucky, Dept. of Biology (4/16/10);
- 2009 College of Sciences Advisory Board Meeting (Oct 2009) Ga Tech.
- 2008 Florida International University Dept. of Biology (3/12/08); Fudan University -2 days of seminars to the Ecology Group (May/08); Texas A&M University Corpus Christi (Nov/08); University of Georgia, Dept. of Plant Biology (Nov/08)
- 2007 Leigh Marine Laboratory of Auckland University, New Zealand (1/18/07); School of Math, Ga Tech (3/28/07); Auburn University Dept. of Fisheries and Allied Aquacultures (10/12/07)
- 2006 Environmental Science, University of Peking, Bejing, China (1/12/06); Dept. of Ecology and Evolution, Rice University (4/10/06); Darling Marine Center, University of Maine (11/3/06)

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- Hopkins Marine Station, Stanford University (1/14/05); Biology Dept., Morehouse University 9/25/05); Inst. of Ecology, University of Georgia (10/7/05); Siemens Competition Math: Science: Technology, Georgia Inst. of Technology (11/19/05);
- Department Chemie der Universität, Butenandtstr. München, Germany; Clemson University, Dept of Biology, University of the South Pacific, Institute of Applied Sciences, mini-course in "Marine Chemical Ecology and Drug Discovery" (14-18 June, Suva, Fiji); NIH workshop on "conservation and drug discovery" (14 Oct., Bethesda, MD); Kennesaw State University (3 Nov., Kennesaw, GA)
- 2003 University of California, Davis; Section of Evolution and Ecology; University of California, Los Angeles, Organismic Biology, Ecology and Evolution; California State University at Northridge, Biology (Graduate Student Invitee for 03), Georgia State University, Dept. of Biology; Utah State University, Ecology Center Seminar Series (Graduate Student Invitee); University of Missouri, St. Louis, Dept of Biology
- 2002 Tjarno Marine Biological Laboratory, Stromstad, Sweden(a series of seminars in May; one in December); Northwest Fisheries Science Center, National Marine Fisheries Service, Seattle, WA; GIT Presidents Advisory Council, Savannah, GA; Georgia State Dept. of Biology; Savannah State University Marine Sciences Program
- 2001 Stazione Zoologica, A. Dohrn, Naples, Italy; University of Oklahoma, Department of Zoology; Vassar College, Department of Biology; Emory University, Dept. of Environmental Studies
- 2000 The U.S. Environmental Protection Agency, Region 4, Atlanta; GA; Emory University Department of Biology; Georgia Southern University Dept. of Biology
- 1999 University of Georgia (Institute of Ecology); Dauphin Island Marine Lab; University of Alabama at Birmingham (School of Natural Sciences and Mathematics);
- 1998 University of California at Santa Barbara (Dept of Ecology, Evolution, and Marine Biology special invitation by vote of the Graduate Students); Georgia Institute of Technology (School of Biology);
- 1997 University of Toronto (Joint Zoology and Botany Seminar), Duke University (Populaton Biology Group), University of Chicago (Ecology and Evolutionary Biology), Bennett College (Dept. of Biology), Univ. of North Carolina at Chapel Hill (Marine Sciences), Duke University Marine Laboratory Nicholas School of the Environment, Georgia Institute of Technology (Dept. of Biology); University of Notre Dame (Biology)
- 1996 Universidade Federal Fluminense, Nitero, Rio de Janeiro, Brazil (two seminars in the Institute of Biology and two in the Institute of Chemistry); Biology Dept., University of California at Santa Cruz; Biology and Marine Sciences, Smith College; Duke University Marine Lab; West Carteret High School, Morehead City, NC (two seminars to the Honors Marine Sciences Class);
- 1995 University of Pennsylvania, Virginia Institute of Marine Sciences, 3 seminars presented to UNC Alumni traveling in Costa Rica, the National Estuarine Research Reserve System Conference, University of North Carolina at Chapel Hill, Duke University Marine Lab
- 1994 State University of New York at Stony Brook, Featured Speaker at North Carolina State
 University's Crop Science Department Annual Graduate Student Awards Ceremony, National
 Estuarine Research Reserve Annual Conference, The Max-Planck Society, University of North
 Carolina at Chapel Hill
- 1993 Old Dominion University, University of the Western Cape (South Africa), University of Cape Town (South Africa), Pennsylvania State University, University of Notre Dame, University of Houston, Bodega Bay Marine Lab University of California at Davis.
- 1992 College of Marine Studies at the University of Delaware, North Carolina State University, University of Utah (Special Graduate Student Invitee), Duke University, Florida State University (Special Graduate Student Invitee), University of North Carolina at Chapel Hill
- 1991 Scripps Institution of Oceanography at University of California-San Diego, The Marine Biological Laboratory at Woods Hole, Cornell University, University of Wisconsin at Madison (Special Graduate Student Invitee), University of North Carolina at Wilmington

- 1990 Brown University, University of New Hampshire, Wake-Forest University, University of Puerto Rico at Mayaquez, University of Puerto Rico Marine Lab at La Pagara, University of North Carolina at Chapel Hill
- 1989 University of California at Santa Barbara Pharmacology Program, University of Delaware, jointly sponsored seminar for Glaxo Research Laboratories and UNC at Chapel Hill's Curriculum in Marine Sciences
- 1988 Northern Arizona University, The National Museum of Australia, Lizard Island Research Station, University of Maine, The Darling Center Marine Lab, University of North Carolina at Chapel Hill, North Carolina State University
- 1987 State University of New York at Buffalo, Scripps Institution of Oceanography, University of California at Santa Cruz, University of North Carolina at Wilmington, University of North Carolina at Chapel Hill, University of South Carolina, Dauphin Island Sea Lab
- 1986 Duke University Marine Lab, Duke University, University of California at Santa Barbara, University of California at Davis, The Australian Museum, University of Sydney, James Cook University, Lizard Island Research Station
- 1985 The Academy of Natural Sciences of Philadelphia, Universidad de Concepcion, Chile (2 weeks of seminars), University of Puerto Rico Marine Laboratory at La Pagara
- 1984 Smithsonian Institution, Duke University, Virginia Polytechnical Institution and State University (Virginia Tech)
- 1983 Harvard University
- 1982 Hopkins Marine Station of Stanford University, Harbor Branch Foundation, West Indies Laboratory, Duke University Marine Laboratory
- 1981 Yale University, University of Arizona, University of Hawaii, University of North Carolina at Chapel Hill, Philadelphia Academy of the Natural Sciences, Howard University, Smithsonian Institution, University of Maryland, California State Polytechnic University at Pomona, College of the Virgin Islands at St. Thomas
- 1980 Tufts University, University of California at Santa Barbara, De Paul University, University of Kentucky, Northeastern University
- 1979 Smithsonian Tropical Research Institute, University of California at Irvine
- 1978 Smithsonian Institution, Smithsonian Tropical Research Institute

Presentations at Scientific Meetings

(numbers in parentheses show the number of presentations in which I was an author; this is an underestimation because I don't really keep up with these well)

- 2025 Benthic Ecology Meetings (Mobile, AL; 2 presentations);
- 2024 Benthic Ecology Meetings (Charleston, SC; 3 presentations); European Coral Reef Symposium (Naples, Italy; 2 presentations)
- Benthic Ecology Meetings (Miami, FL; 3 presentations); Gordon Research Conference on Plant-Herbivore Interactions;
- Western Society of Naturalists (Ensenada, Mexico; 2 talks); Ocean Visions Meetings (Atlanta, GA);
- 2018 International Society of Chemical Ecology Meetings (Budapest, Hungary); Western Society of Naturalists Meeting (Tacoma WA)
- 2017 Benthic Ecology Meetings (4);
- 2016 International Coral Reef Congress (Honolulu, Hawaii (3); Ecological Society of American Meetings (1); Western Society of Naturalists (2); International Society of Chemical Ecology (1)
- 2015 Ecological Society of America Meetings (Baltimore, MD) (1)
- 2014 Benthic Ecology Meetings (Jacksonville, FL) (3)
- 2013 Benthic Ecology Meetings (Savannah, GA) (1)

- Benthic Ecology Meetings (Norfolk, Virginia) (2); International Coral Reef Society Meetings (Cairns, Australia) (4); 10th International Larval Biology Symposium (Berkeley, CA) (1);
- American Society of Limnology and Oceanography (San Juan, PR) (1); Benthic Ecology Meetings (Mobile, Alabama) (2)
- 2010 Benthic Ecology Meetings (Wilmington, NC; March 2010)
- 57th ASMS Conference on Mass Spectrometry (Philadelphia, PA) (1), Joint Meetings of the American Society of Plant Biologists and the Phycological Society of America (Honolulu, Hawaii) (1) International Society of Ecology Annual Meetings (Brisbaine, Australia) (1), Ecological Society of America (Albuquerque, NM) (1), Crustacean Society Meeting (Tokyo, Japan)
- 2008 International Coral Reef Symposium (Ft. Lauderdale, FL) (1)
- 2006 Ecological Society of American Meetings (Memphis, TN) (1)
- 2005 ASLO, Benthic Ecology Meetings (Williamsburg, VA) (1), Ecological Society of America Meeting (Montreal, Quebec, Canada) (1), Student Conference on Conservation Science, Duke University, Durham, NC (1)
- 2004 DECHEMA symposium on "Aktuelle Entwicklungen in der Naturstoff-forschung" Plenary Speaker for this meeting; The Benthic Ecology Meetings, Mobile, AL; The International Chemical Ecology Meetings, Ottowa, Canada;
- 2003 Plant Canada 2003 (joint meeting of the Canadian Botanical Association and the Canadian Society of Plant Physiology: Antigonish, Nova Scotia) (1)
 Benthic Ecology Meetings (Groton, CT) (2)
 Ecological Society of America Meeting (Savannah, GA) (3)
- 2002 Marine Benthic Ecology Meetings (Orlando, FL) (3)
- International Society of Chemical Ecology (Lake Tahoe, CA) (1)
 Phycological Society of America Meetings (Estes Park, CO) (1)
 Meeting related to Oak Ridge Associated Universities (Oak Ridge, TN) (1)
 Teasley Symposium on Global Change (Atlanta, GA) (1)
- Benthic Ecology Meetings (Wilmington, NC) (6)
 American Society of Limnology and Oceanography Meetings (Copenhagen, Denmark) (1)
 Australian Marine Sciences Association Annual Conference (University of New South Wales, Sydney, Australia) (1)
- 1999 Benthic Ecology Meetings (Baton Rouge, LA) (6)
- 1998 Benthic Ecology Meetings (Melbourne, FL) (3)
 Society for Integraive and Comparative Biology (Boston, MA) (2)

Marine Sciences MARCUBA 2000 (Havana, Cuba) (1)

- 1997 Benthic Ecology Meetings (Portland, ME) (4)
 Ecological Society of America Meetings (2)
 Western Society of Naturalists (Monterey, CA) (3)
- 1996 The 31st European Marine Biology Symposium, St. Petersburg, Russia (1) Benthic Ecology Meetings (Columbia, SC) (3) 8th International Coral Reef Symposium (Panama City, Panama) (2)
- 1995 The Southeastern Phycological Coloquy (Charleston, SC) (2)
 Benthic Ecology Meetings (Rutgers, NJ) (2)
 North American Benthological Society (Orlando, FL) (1)
 The Gordon Research Conference on "Plant-Herbivore Interactions" (Oxnard, CA) (2)
- 1994 Max-Planck Society Symposium on Chemical Ecology (Munich, Germany) (1)
 Benthic Ecology Meetings (Mystic, CT) (4)
 North American Benthological Society (Orlando, FL) (1)
- American Society for the Advancement of Science (Boston, MA) (1)
 International Society of Chemical Ecology (Clearwater, FL) (2)
 Ecological Society of America (Madison, WI) (1)

	Benthic Ecology Meetings (Mobile, AL) (2)
	American Society of Zoology/Western Society of Naturalists (Los Angeles, CA) (1)
1992	Benthic Ecology Meetings (Newport, RI) (6)
1991	Coastal Wetlands Ecology and Management Symposium (New Orleans, LA) (1)
	Benthic Ecology Meetings (Williamsburg, VA) (4)
	Ecological Society of America (San Antonio, TX) (2)
1990	Benthic Ecology Meetings (Mobil, AL) (1)
	Ecological Society of America (Snow Bird, UT) (1)
	American Society of Limnology and Oceanography (Williamsburg, VA) (1)
	International Symposium on Herbivory in the Marine Benthos (Liverpool, England) (1)
	Western Society of Naturalists (Monterey, CA) (1)
1989	Benthic Ecology Meetings (Solomons, MD) (1)
	Gordon Conference on the Chemistry of Plant-Herbivore Interactions (Oxnard, CA) (1)
	US-India Conference on Bioactive Compounds from Marine Organisms (Goa, India) (1)
1988	Benthic Ecology Meetings (Portland, ME) (1)
	6th International Coral Reef Symposium (Townsville, Australia) (2)
	Smithsonian Institution Meetings on Tropical Marine Ecology (Solomons, MD) (1)
1987	Ecological Society of America (Columbus, OH) (3)
	Benthic Ecology Meetings (Raleigh, NC) (4)
	NOAA Undersea Science Symposium (Mystic, CT) (1)
	The Charles A. Lindberg Symposium (Little Falls, MN) (1)
	North Carolina Marine Biotechnology Symposium (Beaufort, NC) (1)
1986	International Congress of Ecology / Ecological Society of America (Syracuse, NY) (3)
	Benthic Ecology Meetings (Boston, MA) (3)
	Western Society of Naturalists (Hilo, Hawaii) (1)
	Gordon Conference on Marine Natural Products (Oxnard, CA) (1)
1985	Ecological Society of America (Minneapolis, MN) (2)
	American Society of Zoologists (Baltimore, MD) (1)
	Fifth International Coral Reef Congress (Tahiti, French Polynesia) (1)
	Benthic Ecology Meetings (Columbia, SC) (1)
	Western Society of Naturalists (Monterey, CA) (1)
1984	Ecological Society of America (Ft. Collins, CO) (1)
	Benthic Ecology Meetings (Baltimore, MD) (1)
1000	The Atlantic Reef Committee and International Society for Reef Studies (Miami, FL) (1)
1983	American Society of Zoologists (Philadelphia, PA) (1)
	The Sixth Maria Moors Cabot Symposium (Harvard Forest, MA) (1)
1002	The Eleventh International Seaweed Symposium (Qingdao, China) (1)
<1983	Several papers were presented at annual meetings of the Ecological Society of America,
	rnycological Society of America, Western Society of Naturalists, etc.
\1963	Phycological Society of America, Western Society of Naturalists, etc.

Outreach/Presentations to Public Groups (kept track of this only post-December 2008)

Chattahoochee Nature Center, "Global Change and Coral Reefs" (April)
 Rotary Club of North Atlanta "Sustaining Earth's Ecosystems Services" (May),
 Decatur Club presentation on "Coral reef ecology and drugs from the sea" (July);
 Hour- long guest interview on *The Business Hour* on America's Web Radio (Feb); presentation to the Dunwoody Rotary Club on "Chemical ecology, coral reef ecology, and drugs from the sea";
 Organized the 2012 Teasley Symposium – this day long session on Coral Reef Ecology was web-cast internationally and included web-based video interviews with sciences students in local

school systems in GA; Worked with the following for outreach stories on marine chemical ecology (mostly generated by our 2012 Science paper): NSF, AAAS, Science, Nature, National

- Geographic, Scientific American, the New York Times, Smithsonian Magazine, Voice of America, Voice of Russia, Chemical and Engineering News, Today's Science, etc.
- 2011 Interview and web-cast on ocean acidification with *The Scientist* /F 1000 http://blog.the-scientist.com/2011/01/07/f100k/; Carrollton Kawinis Club "Conserving the World's Coral Reefs"; Chemical and Engineering News Article on our work that focuses on "Bioprospecting protocols and drug discovery": Four pieces for the New York Times "Scientist at Work" section A Disappearing Underwater World http://scientistatwork.blogs.nytimes.com/2011/10/12/a-disappearing-underwater-world/; Chemistry as the Language of Life http://scientistatwork.blogs.nytimes.com/2011/10/14/chemistry-as-the-language-of-life/; Drinking Kava on "Fiji Time" http://scientistatwork.blogs.nytimes.com/2011/10/14/chemistry-as-the-language-of-life/; Drinking Kava on "Fiji Time" http://scientistatwork.blogs.nytimes.com/2011/10/14/chemistry-as-the-language-of-life/; Drinking Kava on "Fiji Time" http://scientistatwork.blogs.nytimes.com/2011/10/14/chemistry-as-the-language-of-life/; Drinking Kava on "Fiji Time", From Marine Ecology to Drug Discovery http://scientistatwork.blogs.nytimes.com/2011/10/24/from-marine-ecology-to-drug-discovery/; Coverage of our research (October 2011) by http://scientistatwork.blogs.nytimes.com/2011/10/24/from-marine-ecology-to-drug-discovery/; Coverage of our research
- Wall Street Journal ½ page, A-section story on our work entitled "In the Depths of Aquarius"; Sandy Springs Elementary "Marine Ecology and Exploration"; Discover magazine article on our work entitled "Overfishing gives toxic seaweeds an edge in their competition with corals"; Oceanography Magazine article on our work entitled "Talking to the animals: Chemical ecologists translate the language of the sea"; NSF's News summary web site article on our work entitled "Killer Seaweed: Scientists Find First Proof that Chemicals from Seaweeds Damage Coral on Contact"; results of this "Killer seaweed" study were featured in *Discover* magazine online, on *National Public Radio*, on *MSNBC* online, and by over 15 global new sources.
- 2009 Mariners Mutual (an Investment club in Atlanta) "Anthropogenic drivers of Earth's processes: Can we engineer a future worth having?"; the Atlanta School (to their middle-school students) – "Ecology and evolution on a crowded planet"; Rotary Club of Griffin, GA - "Anthropogenic drivers of Earth's processes: Can we engineer a future worth having?"
- 2008 Rotary Club of Buckhead (175 of Atlanta's involved business leaders) "*This is the century of biology*"

Older Awards and Recognition

- George Mercer Award from ESA for: <u>Rasher DB</u>, A Hoey, and ME Hay. 2013. Consumer diversity interacts with prey defenses to drive ecosystem function. **Ecology** 94: 1347-1358 (recognizes the outstanding paper of the previous 2 years in the field of ecology by an author <40 years old; <u>Doug Rasher was the awardee</u>);
 - Named a "Top 100 Scientist of 2014" by the International Biographical Center, Cambridge, England
 - Organizer of the Symposium on "Chemical cues and signals structure marine populations, communities, and ecosystems" for the International Society of Chemical Ecology;
- AAAS Fellow for "...developing marine chemical ecology and for elucidating how chemical cues and signals structure populations, communities, and ecosystems."
 - National Academy of Sciences panel for the USAID/NSF PEER program (Partnerships for Enhanced Engagement in Research)
- NIEHS (National Institute of Environmental Health Sciences) National Science Foundation (NSF) Review Committee Member for Oceans, Great Lakes and Human Health (OGLHH);
- 2011 Science Advisory Board (SAB) for the Florida State University Coastal and Marine Laboratory (2011-present)
 - Recognized by International Biographical Center (Cambridge, England) as a "Leading Scientists of the World 2011"

2010	Inducted into the Hall of Distinguished Alumni by the University of Kentucky; Biology Panel Member for "Research Evaluation for Development at the University of Gothenburg, Sweden"
	Sigma Xi Best Paper Award
2009	Member, Review Committee for the Stazione Zoologica Anton Dohrn, Naples, Italy Panel member, NSF PIRE panel
	Faculty of 1000 Biology, Ecology Advisory Board
2008	Board of Directors of Sustainable Fijian Reef Resources, Inc.;
2000	NSF, PIRE panelest
	Provosts Task Force Sub-committee on Thought Leaders
	External Research Collaborations Subcommittee of the Defining and Supporting
	Interdisciplinarity Taskforce (Ga Tech)
2007	On the National Geographic TV Series "Naked Science" episode "The Deep" (about marine
2007	science and exploration)
2006	Re-appointed to the Ecological Society of America's Marine Ecology Rapid Response
2000	Team (2 yr term)
	SigmaXi Sustained Research Award
	USG search committee for the Georgia Sea Grant Director
2005	Appointed as a Faculty 1000 member http://www.facultyof1000.com/start.asp
2003	Appointed as a Faculty 1000 inclined intp://www.facultyoff000.com/start.asp Appointed to NOAA's SouthEast Advisory Council for Undersea Research and Education
	(SEACURE)
2004 -	Appointed to the Ecological Society of America's Marine Ecology Rapid Response Team
2004 -	(2 yr term)
2003 -	Appointed to the American Institute for Biological Sciences' working group on
2003 -	Infrastructure for Biology at Regional to Continental Scales/ National Ecological
	Observatory Network
2002 -	Identified by ISI's Current Contents as among the world's most cited authors (top 0.1%) in
2002	the Ecology/Environment category.
	Appointed to NSF's IGERT National Recruitment Program Advisory Board
	Appointed to the Georgia Aquarium Conservation Committee
	"Opponent" for a Ph.D. candidate (Gunilla Toth) at Goteborg University, Sweden
2001 -	Appointed to the Ecological Society of America's Research Committee (a 3 year term)
2001	NSF Panel Member for: Biocomplexity in the Environment: Dynamics of Coupled Natural
	and Human Systems;
	Appointed to the National Coral Reef Institute's Technical Advisory Committee
2000 -	Appointed as an Aldo Leopold Leadership Fellow by the Ecological Society of America;
	Boston University Marine Program External Review Panel, Woods Hole, MA
	Appointed as a Trustee of the Skidaway Marine Science Foundation (3 year term)
1999	Chair, American Society of Limnology and Oceanography, Nominations Committee
1998	Appointed to the National Science Foundation's Decadal Planning Committee on Ocean
1,,,,	Sciences (charged with synthesizing planning efforts on the future of the Biological,
	Chemical, Geological, and Physical Oceanography Programs into a comprehensive plan
	for the Ocean Sciences Division)
1997	Co-Chair of the National Science Foundation's OEUVRE (Ocean Ecology: Understanding
	and
	Vision for REsearch) Workshop in Biological Oceanography (charged with organizing a
	workshop to challenges and opportunities that NSF's Biological Oceanography Section
	should be prepared to confront over the next 20 years)
	Chairman, American Society of Limnology and Oceanography, Finance Committee
	Search Committee Member for a new Editor for <i>Limnology and Oceanography</i> ; the journal of
	the American Society of Limnology and Oceanography

NSF Panel Member for Biological Oceanography

NSF Panel Member for the Integrative Graduate Education and Research Training Program Invited Advisor, Max-Planck Institutes meeting on "Perspectives in Aquatic Ecology" Advisory Board for Reef Net (an internet publication devoted to the ecology and conservation of coral reefs)

Service

A) National and International Service

2025	Editor.	PNAS:

Associate Editor, Science Advances

Ecological Society of America MacArthur Award Subcommittee

Chair, NAS, Section 63 Interest Group in Sustainability, Organismal, Population, and Community Ecology;

Ecological Society of America's Robert H. MacArthur Award Committee

2024 Chair, NAS, Section 63 Interest Group in Organismal, Population, and Community Ecology;

Editor, PNAS;

Associate Editor, Science Advances

The selection committee for the NAS Award in the Evolution of Earth and Life - Daniel Giraud Elliot Medal

External advisor for Harvard University's search for a Professor of Marine Chemical Ecology and Evolution

TNC's Scientific Advisory Board for Palmyra Atoll

Smithsonian Institution's MarineGEO Advisory Council

Chair of the Scientific Advisory Board for Florida State University's Coastal Marine Laboratory

2022 TNC's Scientific Advisory Board for Palmyra

Smithsonian Institution's MarineGEO Advisory Council

Chair of the Scientific Advisory Board for Florida State University's Coastal Marine Laboratory

Reverse Site Visit panelist for the NSF Established Program to Stimulate Competitive Research (EPSCoR)

2021 TNC's Scientific Advisory Board for Palmyra

Smithsonian Institution's MarineGEO Advisory Council

Chair of the Scientific Advisory Board for Florida State University's Coastal Marine Laboratory

2020 Advisor, Strategy group for reviving the Biosphere 2 Ocean Ecosystem

TNC's Scientific Advisory Board for Palmyra

Smithsonian Institution's MarineGEO Advisory Council

Chair of the Scientific Advisory Board for Florida State University's Coastal Marine Laboratory

Advisor, Strategy group for reviving the Biosphere 2 Ocean Ecosystem

TNC's Scientific Advisory Board for Palmyra

Co-organizer for the International Society of Chemical Ecology Annual Meeting in Atlanta GA

Smithsonian Institution's MarineGEO Advisory Council

Chair of the Scientific Advisory Board for Florida State University's Coastal Marine Laboratory

2018	Advisor, The Nature Conservancy's Planning Committee for refocusing the Palmyra Lab for Climate Change and Resilience.
	Smithsonian Institution's MarineGEO Advisory Council
	Chair of the Scientific Advisory Board for Florida State University's Coastal Marine Laboratory
2017	Smithsonian Institution's MarineGEO Advisory Council
	Chair of the Scientific Advisory Board for Florida State University's Coastal Marine Laboratory
2016	Scientific Advisory Board for Florida State University's Coastal Marine Laboratory NSF Panel Member for the New LTER Competition
2015	Scientific Advisory Board for Florida State University's Coastal Marine Laboratory
2014	Organizer for the International Society of Chemical Ecology Meeting's special session on "Chemical cues and signals structure marine populations, communities, and ecosystems" Champaign-Urbana, II;
	Member Ga Tech Quality Enhancement Plan Faculty Advisory Committee;
	Scientific Advisory Board for Florida State University's Coastal Marine Laboratory
2013	National Academy of Sciences panel for the USAID/NSF PEER program (Partnerships for
	Enhanced Engagement in Research)
	Interviewee on The Business Hour with Ron Comacho, America's Web Radio (program: The
	Health Of The Planet Is About Healthy Oceans And Marine Life) 3/29/13
2012	Scientific Advisory Board for Florida State University's Coastal Marine Laboratory
2012	Co-organizer for the "Seaweed-Coral Interaction" Symposium at the International Coral Reef Symposium Cairns, Australia;
	Organized the 2012 Teasley Symposium – "Seaweed-Coral Interactions and the Structure and
	Function of Coral Reefs" Atlanta, GA;
	NIEHS (National Institute of Environmental Health Sciences) National Science Foundation
	(NSF) Review Committee Member for Oceans, Great Lakes and Human Health (OGLHH);
	Invited speaker and participant, Science Workshops Concerning NOAA's biological status
	review of 82 species of corals considered for listing under the Endangered Species Act, Ft. Lauderdale, FL
2011	Appointed to Science Advisory Board (SAB) for the Florida State University Coastal and Marine Laboratory
	Recognized by International Biographical Center (Cambridge, England) as a "Leading Scientists of the World 2011"
	Member, Advisory Board for UGA, NSF funded LTER project
2010	Biology Panel Member for "Research Evaluation for Development at the University of Gothenburg, Sweden"
	Member, faculty search targeting "The Systems Ecology of the Cystic Fibrosis Lung" Emory University School of Medicine, Center for Cystic Fibrosis Research, Children's Healthcare of Atlanta
	Member, Advisory Board for UGA, NSF funded LTER project
2009	Member, Review Committee for the Stazione Zoologica Anton Dohrn, Naples, Italy
	Panel member, NSF PIRE panel
	Faculty of 1000 Biology, Ecology Advisory Board
	Member, Advisory Board for UGA, NSF funded LTER project
2008	Board of Directors of Sustainable Fijian Reef Resources, Inc.;
	NSF, PIRE panelist
	Member, Advisory Board for UGA, NSF funded LTER project
2007	Member USG search committee for a new Sea Grant Director for the state of Georgia

On the National Geographic TV Series "Naked Science" episode "The Deep" (about marine science and exploration)

Member, Advisory Board for UGA, NSF funded LTER project

2006 Re-appointed to the Ecological Society of America's Marine Ecology Rapid Response Team (2 yr term)

SigmaXi Sustained Research Award

External Review committee for UGA, NSF funded LTER project

USG search committee for a new Sea Grant Director for the state of Georgia

- Appointed as a Faculty 1000 member http://www.facultyof1000.com/start.asp
 Appointed to NOAA's SouthEast Advisory Council for Undersea Research and Education (SEACURE)
- 2004 Appointed to the Ecological Society of America's Marine Ecology Rapid Response Team (2 yr term)
- 2003 Appointed to the American Institute for Biological Sciences' working group on Infrastructure for Biology at Regional to Continental Scales/ National Ecological Observatory Network
- 2002 Identified by ISI's Current Contents as among the world's most cited authors (top 0.1%) in the Ecology/Environment category.

Appointed to NSF's IGERT National Recruitment Program Advisory Board Appointed to the Georgia Aquarium Conservation Committee

"Opponent" for a Ph.D. candidate (Gunilla Toth) at Goteborg University, Sweden

2001 - Appointed to the Ecological Society of America's Research Committee (a 3 year term)
NSF Panel Member for: Biocomplexity in the Environment: Dynamics of Coupled Natural
and Human Systems;

Appointed to the National Coral Reef Institute's Technical Advisory Committee

2000 - Appointed as an Aldo Leopold Leadership Fellow by the Ecological Society of America;
Boston University Marine Program External Review Panel, Woods Hole, MA
Sustainable Ecosystems Institute Scientific Panel Member

Appointed as a Trustee of the Skidaway Marine Science Foundation (3 year term)

1999 Chair, American Society of Limnology and Oceanography, Nominations Committee 1998 - 2000 Appointed to the National Science Foundation's Decadal Planning Committee on Ocean Sciences (charged with synthesizing planning efforts on the future of the Biological, Chemical, Geological, and Physical Oceanography Programs into a comprehensive plan for the Ocean Sciences Division)

Co-Chair of the National Science Foundation's OEUVRE (Ocean Ecology: Understanding and Vision for REsearch) Workshop in Biological Oceanography (charged with organizing a workshop to challenges and opportunities that NSF's Biological Oceanography Section should be prepared to confront over the next 20 years)

Chairman, American Society of Limnology and Oceanography, Finance Committee Search Committee Member for a new Editor for *Limnology and Oceanography*; the journal of the American Society of Limnology and Oceanography

NSF Panel Member for Biological Oceanography

NSF Panel Member for the Integrative Graduate Education and Research Training Program Invited Advisor, Max-Planck Institutes meeting on "Perspectives in Aquatic Ecology" Advisory Board for Reef Net (an internet publication devoted to the ecology and conservation of coral reefs)

- 1997 Co- Chair of NSF "Futures" Workshop for Biological Oceanography (OEUVRE)
 - Editorial Advisory Board for Journal of Experimental Marine Biology and Ecology
 - Associate Editor for *Chemoecology*
 - NSF Panel Member for Biological Oceanography and for the Panel on Research Training Grants
 - Invited Advisor, Max-Planck Institutes meeting on "Perspectives in Aquatic Ecology"

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- Advisory Board for Reef Net (an internet publication devoted to the ecology and conservation of coral reefs)
- Taught a one week course and gave a series of seminars on "Marine Chemical Ecology" at Instituto Biologia, Universidade Federal Fluminense, Nitero, Rio de Janeiro, Brazil, March 1996
- Elected to the Board of the American Society of Limnology and Oceanography as a Member-at-Large
 - NSF Panel on Biology Research Training Grants
 - Participant in Smithsonian Institution and Center for Marine Conservation Workshop on Intensive Marine Inventories and Their Contribution to the Reorganization of Systematics
- 1994 Invited participant in the Max-Planck Society meeting to determine the feasibility of establishing an Institute of Chemical Ecology
 - Panel reviewer for Duke University/ONR High School Internship Program
 - NOAA, NURC Panel member for research in the Florida Keys National Marine Sanctuary
 - Invited participant in U.S. National Academy of Sciences Special Colloquium "Chemical Ecology: The Chemistry of Biotic Interactions"
- 1993-96 Appointed as a Counselor for the International Society for Chemical Ecology
- Spent 3 weeks in South Africa at the request of the Univ. of the Western Cape (the university at which Desmond Tutu is Chancellor) collaborating with students and faculty on marine chemical ecology.
- 1992 Invited participant in the NSF Workshop on a National Center for Ecological Synthesis and Analysis
- 1989-93 Editorial Board for *Ecology, Ecological Monographs, Marine Ecology Progress Series, Chemoecology*.
- 1989-95 Proposal Review Panel for the Charles A. Lindberg Foundation, Inc.
- 1990 On the Proposal Review Panel for NSF Biological Oceanography Program
- On the Proposal Review Panels for NSF Biological Oceanography Program, NOAA National Undersea Research Program, and Sigma Xi
- One of approximately 20 invited participants in a recent NSF sponsored workshop on nearshore benthic marine ecology (Seattle, WA)
- Organized and acquired NSF funding for an international workshop on "Integrating Marine Chemical Ecology and Biotechnology" (Hilo, Hawaii) (W. Fenical collaborated on this)
- Co-organizer (with J. P. Sutherland and L. Levin) of the 1986 Benthic Ecology Meetings (Raleigh, NC)
- 1982-86 Buell Award Judge (Ecological Society of America award for outstanding presentation by a graduate student)

Reviewed manuscripts and proposals for:

Journals: American Naturalist, American Zoologist, Anais da Academia Brasileira de Ciencias, Annals of Botany, Aquatic Botany, ASB Bulletin, Behavioral Ecology and Sociobiology, Biofouling, Biological Bulletin, Biology Letters, Biotropica, Botanica Marina, Bulletin of Marine Sciences, Chemoecology, Climate Change, Coral Reefs, Current Biology, Diversity, Ecology, Ecology Letters, Ecological Monographs, eLife, Environmental Microbiology and Environmental Microbiology Reports, e-life, Estuaries,, Evolution, Functional Ecology, Hydrobiologia, Journal of Chemical Ecology, Journal of the Elisa Mitchell Scientific Society, Journal of Experimental Marine Biology and Ecology, Journal of Fish Biology, Journal of Phycology, Limnology and Oceanography, Marine Biology, Marine Ecology Progress Series, Natural Products Reports, Nature, Nature Communications, Naturwissenschaften, New Phytologist, Oecologia, Phycologia, Plant Ecology, Proceedings of the National Academy of Sciences (Guest Editor and reviewer), Science, Science Advances, Scientia Marina, Scientific Reports, Trends in Plant Science, several books, symposia, and conference proceedings;

Proposal reviews and/or Panel member for: The Leverhulme Trust, NSF (Biological Oceanography, Ecology, International Programs, Division of Research Initiation, Polar Biology and Medicine, Ecology and Evolutionary Physiology, Informal Science Education, IGERT, PIRE); The Marsden Fund (New Zealand); National Academy of Sciences (National Research Council, Office of International Affairs), National Geographic Society, Smithsonian Institution, NOAA (Undersea Research Program, Marine Sanctuary Program, National Estuarine Research Reserve Program, MARFIN), U.S. Environmental Protection Agency, National and State Sea Grant Programs, Netherlands Organization for Scientific Research, U.S. Man and The Biosphere Program, Australian Research Council, Australia's National Research Fellowship Scheme, National Environmental Research Council (NERC) of the United Kingdom, South African Foundation for Research and Development (FRD), Israel Inter-Univ. Foundation for Ecology, U.S.-Israel Binational Science Foundation, Alexander von Humboldt Foundation, International Foundation for Science, National Resources Defense Council, NC Dept. of Environmental Health and Natural Resources, Kluwer Academic/Plenum Publishers, Schmidt Ocean Institute, Wallenberg Foundation Academy Fellows.

Tenure and promotion reviews for: Brown University, Cornell University, Florida State University, Goteborg University (Sweden), Harvard University, Idaho State University, James Cook University (Australia), Lewis and Clark College, Northeastern University, Notre Dame University, Nova Southeastern University, Ohio State University, Oregon State University, Scripps Institution of Oceanography, Smithsonian Institution, Smithsonian Tropical Research Institute, State University of New York at Buffalo, Temple University, University of California at Davis, University of California at Santa Barbara, University of California at Los Angeles, University of Chicago, University of Delaware, University of Florida, University of Hawai'i at Mānoa, University of Houston, University of Illinois at Urbana-Champaign, University of Maine, University of Michigan, University of Minnesota, University of New Hampshire, University of New South Wales, University of North Carolina at Chapel Hill, University of Sydney, University of Utah, University of the Western Cape (South Africa), U.S. National Museum of Natural History - Smithsonian Institution, Utah State University

B) University Service

Georgia Institute of Technology

2025 The Institute's Standing Review Committee

Junior Teasley Professorship Committee, Chair

Institute Regents Selection Committee.

College of Engineering Major Awards Committee

GIT's Honorary Degree & Commencement Speaker Committee (CoS Representative)

School of Biological Sciences, Research Awards Committee

School of Biological Sciences Strategic Planning Committee

2024 Institute Regents Selection Committee.

College of Engineering Major Awards Committee

GIT's Honorary Degree & Commencement Speaker Committee (CoS Representative)

School of Biological Sciences Strategic Planning Committee

School of Biological Sciences, Research Awards Committee

2023 College of Engineering Major Awards Committee

GIT's Honorary Degree & Commencement Speaker Committee (CoS Representative)

School of Biological Sciences, Research Awards Committee

School of Biological Sciences Strategic Planning Committee

Search Committee Member, Quantitative Biologist Search Committee (Bio Sciences)

Chair, Search Committee for the Elizabeth Smithgall Watts Endowed Chair in Ecology and Conservation

2022 College of Engineering Major Awards Committee

Search Committee for Director of the Ocean Science and Engineering Program

GIT's Honorary Degree & Commencement Speaker Committee

School of Biological Sciences, Research Awards Committee

Ocean Science & Engineering (OSE) Planning Committee;

Ocean Science & Engineering (OSE) Graduate Admissions Committee

Co-Director of Ocean Science & Engineering (OSE) Program

Chair, Search Committee for the Elizabeth Smithgall Watts Endowed Chair in Ecology and Conservation

School of Biological Sciences Strategic Planning Committee

School of Biological Sciences Strategic Hiring Committee

GIT Internal Review Panel for NSF's Research Traineeship Programs

2021 GIT's Honorary Degree & Commencement Speaker Committee

School of Biological Sciences, Research Awards Committee

Ocean Science & Engineering (OSE) Planning Committee;

Ocean Science & Engineering (OSE) Graduate Admissions Committee

Co-Director of Ocean Science & Engineering (OSE) Program

Chair, Search Committee for the Elizabeth Smithgall Watts Endowed Chair in Ecology and Conservation

School of Biological Sciences Strategic Planning Committee

School of Biological Sciences Strategic Hiring Committee

2020 GIT's Honorary Degree & Commencement Speaker Committee

School of Biological Sciences, Research Awards Committee

Ocean Science & Engineering (OSE) Planning Committee;

Ocean Science & Engineering (OSE) Graduate Admissions Committee

Co-Director of Ocean Science & Engineering (OSE) Program

Chair, Search Committee for the Elizabeth Smithgall Watts Endowed Chair in Ecology and Conservation

School of Biological Sciences Strategic Planning Committee

2019 School of Biological Sciences, Research Awards Committee

Ocean Science & Engineering (OSE) Planning Committee;

Ocean Science & Engineering (OSE) Graduate Admissions Committee

CoS Dean's appointment to the Living Building Project Academic & Research Council

Co-Director of Ocean Science & Engineering (OSE) Program

Chair, Search Committee for the Elizabeth Smithgall Watts Endowed Chair in Ecology and Conservation

2018 School of Biological Sciences, Research Awards Committee

Ocean Science & Engineering (OSE) Planning Committee;

Ocean Science & Engineering (OSE) Graduate Admissions Committee

CoS Dean's appointment to the Living Building Project Academic & Research Council

Co-Director of Ocean Science & Engineering (OSE) Program

Chair, Search Committee for the Elizabeth Smithgall Watts Endowed Chair in Ecology and Conservation

2017 School of Biological Sciences, Research Awards Committee

Ocean Science & Engineering (OSE) Planning Committee;

Ocean Science & Engineering (OSE) Graduate Admissions Committee

Dean's appointment to the Living Building Project Academic & Research Council

2016 College of Sciences Reappointment, Promotion and Tenure Committee; Sigma Xi Dissertations Award Committee;

Ocean Science & Engineering (GT-Ocean) Planning Committee;

Ocean Science & Engineering (GT-Ocean) Graduate Admissions Committee

School of Biology, Awards Committee

Chair, Ecologist search committee

CoS Dean's appointment to the Living Building Project Academic & Research Council

2015 Chair of College of Sciences Committee on Honorific Titles and Awards

College of Sciences Reappointment, Promotion and Tenure Committee;

Quality Enhancement Plan Advisory Committee;

Ocean Science & Technology (GT-Ocean) Planning Committee;

School of Biology, Awards Committee

Chair, Ecologist search committee

2014 Georgia Tech College of Sciences Reappointment, Promotion and Tenure Committee;

Quality Enhancement Plan Advisory Committee;

Ocean Science & Technology (GT-Ocean) planning committee;

School of Biology, Awards Committee

2013 Georgia Tech College of Sciences Reappointment, Promotion and Tenure Committee member (3 yr term)

Member GIT Brook Byers Institute for Sustainable Systems review committee

School of Biology, Awards Committee

School of Biology, EBB2&3 Biology Programming Committee

2012 Chair, School of Biology Promotion and Tenure Committee;

Member, Molecular Ecology and Ecology search committee

2011 Commencement Speaker for Summer 2011 graduation ceremony, Georgia Inst. Of Technology;

Member, School of Biology, Strategic Planning Committee

Chair, School of Biology Promotion and Tenure Committee

2010 Chair, School of Biology Promotion and Tenure Committee

Member, GIT School of Biology Chairperson Search Committee

Member, GIT Endowed Chairs and Professorships Task Force

IGERT proposal review committee GIT

Chair, School of Biology Promotion and Tenure Committee

2009 Chair, School of Biology Promotion and Tenure Committee

Member, School of Biology Chairperson Search Committee

Member, Faculty Search for Microbiology (2 positions)

2008 School of Biology Promotion and Tenure Committee

College of Science Representative on the Georgia Tech Brand Steering Committee

Provosts Task Force Sub-committee on Thought Leaders

External Research Collaborations Subcommittee of the Defining and Supporting Interdisciplinarity Taskforce (Ga Tech)

2007 College of Science Representative on the Georgia Tech Brand Steering Committee

Provosts Task Force Sub-committee on Thought Leaders

External Research Collaborations Subcommittee of the Defining and Supporting Interdisciplinarity Taskforce (Ga Tech)

Member of Institute search committee for the Director of the Byers Institute for Sustainable Systems and Georgia Research Alliance Eminent Scholar and Hightower Chair for Environmental Technologies

- 2005 Provost's committee to review the Dean of the College of Sciences
- 2004 Chair, Ecology Search Committee
- 2003 Chair, Molecular Ecology/Evolution Search Committee (hired Mike Goodisman)
 - Member, Chair of Biology Search Committee
 - Chair, GIT Working Group on the Georgia Aquarium
- 2002 Institutes, Reappointment, Promotion and Tenure Committee

- School of Biology Performance and Tenure Committee
- Chair, GIT Working Group on the Georgia Aquarium
- 2001 Chair, GIT Working Group on the Georgia Aquarium
 - Chair, Ecological Modeler Search Committee (hired Chris Klausmeyer)
 - Member, Microbiology Search Committee
 - Institute's Reappointment, Promotion and Tenure Committee
 - School of Biology Performance and Tenure Committee
- 2000 Institute's Reappointment, Promotion and Tenure Committee
 - Chair, Evolutionary Ecologist Search Committee (hired Adam Jones)
 - School of Biology Performance and Tenure Committee
- 1999 Chair, Diving Control Board
- 1999 School of Biology Performance and Tenure Committee

University of North Carolina at Chapel Hill

- 1997 Graduate Admissions Committee MASC
 - Diving Control Board (IMS/MASC)
 - Triangle Universities Marine Sciences Curriculum Committee
- 1996 Graduate Admissions Committee (MASC)
 - Diving Control Board (IMS/MASC)
 - Graduate Performance Committee (MASC)
- 1995 Appointed by the Vice Chancellor for Graduate Studies and Research to the UNC-CH Environmental Planning Group
 - Faculty Promotion and Review Committee (Chair, for external review, Biology)
 - Faculty representative and speaker on a 10 day UNC Alumni trip to Costa Rica
 - Diving Control Board (Institute of Marine Sciences)
 - Graduate Examinations Committee (Chair, Marine Sciences Curriculum)
 - Graduate Admissions Committee (Marine Sciences)
 - Graduate Performance Committee (Marine Sciences)
 - Facilities Planning Committee (Inst. of Marine Sciences)
- 1994 Appointed as a *Carolina Speaker* (designated by the university as one of several prominent faculty that will address clubs and groups throughout the state)
 - Diving Control Board (Institute of Marine Sciences)
 - Graduate Performance and Review Committee (Chair, Marine Sciences Curriculum)
 - Charged with revising Institute of Marine Sciences' Tenure and Promotion Procedures
- 1993 Diving Control Board (Institute of Marine Sciences)
 - Graduate Performance and Review Committee (Chair, Marine Sciences Curriculum)
- 1992 Faculty Council (Alternate member)
 - Graduate Examination Committee (Chair, Marine Sciences Curriculum)
 - Diving Control Board (Institute of Marine Sciences)
- 1991 Search Committee for an Ecologist (Biology)
 - Staff and Facility Planning Committee (Institute of Marine Sciences)
 - Graduate Admissions Committee (Curriculum in Marine Sciences)
 - Graduate Examination Committee (Chair, Curriculum in Marine Sciences)
 - Diving Control Board (Institute of Marine Sciences)
- 1990 Chair of Graduate Examination Committee (Curriculum Marine Sciences)
 - Staff and Facilities Planning Committee (Institute Marine Sciences)
- 1989 Search Committee for Research Assistant Professor (Institute of Marine Sciences)
- 1988-90 Graduate Admissions and Performance Committee (Marine Sciences Curriculum)
- 1987-90 Examinations Committee (Marine Sciences Curriculum)
- 1987-90 Director of Seminar Series (Institute of Marine Sciences)
- 1987-88 Alternate member of the Faculty Council

- 1986 Space Committee (substitute member) (Institute of Marine Sciences)
- 1983-84 Search Committee for Sedimentary Geologist and Trophic Ecologist (Institute of Marine Sciences)
- 1983-84 Search Committee for Research Assistant Professor (Institute of Marine Sciences)
- 1983 Graduate Admissions and Performance Committee (Marine Sciences Curriculum)
- 1982-90 Computer coordinator (Institute of Marine Sciences)
- 1982-89 Dive Officer (Institute of Marine Sciences)