

Kelly M. Dorgan

Senior Marine Scientist

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Education

- B.S. 2001 University of California, Santa Cruz (Marine Biology), Regents' Scholar, Highest Honors
Ph.D. 2007 University of Maine (Oceanography), Advisor: Pete Jumars
Dissertation title: "Mechanics of burrowing in muddy sediments"
2007 - 2010 Postdoctoral researcher, University of California, Berkeley, Advisor: Mimi Koehl
2011 - 2013 Postdoctoral researcher, Scripps Institution of Oceanography, Advisor: Greg Rouse

Honors and Awards

- 2006 Listed as one of Popular Science's "Brilliant 10" Young Scientists
2007 Association for the Sciences of Limnology and Oceanography Raymond L. Lindeman Award for the outstanding paper in aquatic science by a young scientist
2007 International Polychaete Association Student Award for Best Student Presentation
2008 Selected as a participant in the Eco-DAS VIII (Ecological Dissertations in Aquatic Sciences) Symposium, Honolulu, HI.
2009 Selected as a participant in the FIRST IV (Faculty Institutes for Reforming Science Teaching) Workshop, Charleston, OR.
2010 Selected as a participant in the International Antarctic Biology Course, McMurdo Station.
2012 The Carl Gans Award "to an outstanding young investigator for distinguished contributions to the field of comparative biomechanics" from the Society for Integrative and Comparative Biology Division of Comparative Biomechanics
2014 Undergraduate student, Susann Grill, won Division of Invertebrate Zoology Best Student Poster at the Society for Integrative and Comparative Biology meeting
2015 National Academy of Sciences Gulf Research Program Early Career Research Fellowship

Fellowships and Funding

- 2016 Volkswagon Stiftung "The Ocean's Seafloor - One Bio-Geo-System Symposium (PI: A. Kopf, T. Wever, C. Jenkins, K. Dorgan)
2016-2018 Mississippi-Alabama Sea Grant "Maximizing the return on investment of oyster aquaculture by managing mud blister worm infestations" (PI: K. Dorgan and W. Walton)
2015-2016 University of South Alabama Center for Environmental Resiliency "Characterization of hypoxia vulnerabilities in the Mobile Bay Estuary" (PI: B. Dzwonkowski and K. Dorgan)
2015-2017 Office of Naval Research, Code 32, Division 322, Ocean Acoustics, Award #N00014-15-1-2602 "Impacts of infaunal organisms on acoustic wave propagation through sediments" (PI: K. Dorgan)
2015-2017 National Academy of Sciences Gulf Research Program Early Career Research Fellowship
2015-2017 Gulf of Mexico Research Initiative; Alabama Center for Ecological Resilience (ACER) Consortium (co-PI and project lead investigator; Director: J. Valentine)
2010-2013 NSF Biological Oceanography Award #1029160 "Functional diversity of infaunal burrowers: Towards a mechanistic understanding of animal-sediment

interactions” (with PI: G. Rouse)
 2007-2010 NSF Integrative Organismal Systems Award #0642249 “QEIB: Energetic cost of burrowing” (with PI: M.A.R. Koehl)
 2002-2007 NSF Graduate Fellowship
 2002-2004 NDSEG Fellowship

Publications

1. **Dorgan, K.M.**, C. D’Amelio*, S.M Lindsay. 2016. Strategies of burrowing in soft muds by diverse polychaetes. *Invertebrate Biology*.
2. Grill, S.* , **K. M. Dorgan**. 2015. Burrowing by small polychaetes - mechanics, behavior, and muscle structure of *Capitella* sp. *Journal of Experimental Biology* 218: 1527-1537.
3. **Dorgan, K.M.** 2015. Commentary: The biomechanics of burrowing and boring. *Journal of Experimental Biology* 218: 176-183.
4. Jumars, P.A., **K.M. Dorgan**, S.M. Lindsay. 2015. Diet of worms emended: An update of Polychaete feeding guilds. *Annual Review of Marine Science* 7: 497-520.
5. Francoeur, A.A.* , **K.M. Dorgan**. 2014. Burrowing behavior in mud and sand of morphologically divergent polychaete species (Annelida: Orbiniidae). *Biological Bulletin* 226: 131-145.
6. Law, C.J.* , **K.M. Dorgan**, G.W. Rouse. 2014. Relating divergence in polychaete musculature to different burrowing behaviors: a study using Opheliidae (Annelida). *Journal of Morphology*. DOI: 10.1002/jmor.20237.
7. **Dorgan, K.M.**, C.J. Law*, and G.W. Rouse. 2013. Meandering worms: Mechanics of undulatory burrowing in muds. *Proceedings of the Royal Society B* 280: 20122948.
8. Law, C.J.* , **K.M. Dorgan**, and G.W. Rouse. 2013. Validation of three sympatric *Thoracophelia* species (Annelida: Opheliidae) from Dillon Beach, CA using mitochondrial and nuclear DNA sequence data. *Zootaxa* 3608(1): 067-074.
9. Johnson, B.D., M. Barry, B.P. Boudreau, P.A. Jumars, **K.M. Dorgan**. 2012. In Situ Tensile Fracture Toughness of Surficial Cohesive Marine Sediments. *Geo-Marine Letters*. DOI: 10.1007/s00367-011-0243-1.
10. **Dorgan, K.M.**, S. Lefebvre, J.H. Stillman, M.A.R. Koehl. 2011. Energetics of burrowing by the cirratulid polychaete, *Cirriformia moorei*. *Journal of Experimental Biology* 214: 2202-2214.
11. Denny, M., **K.M. Dorgan**, D. Evangelista, A. Hettinger, J. Leichter, W. Ruder, I. Tuval. 2011. Anchor ice and benthic disturbance in shallow Antarctic waters: Interspecific variation in initiation and propagation of ice crystals. *Biological Bulletin* 221(2). ****Editor’s pick and cover image**
12. Murphy, E.A.K.* , **K.M. Dorgan**. 2011. Burrow extension with a proboscis: Mechanics of burrowing by the glycerid, *Hemipodus simplex*. *Journal of Experimental Biology* 214: 1017-1027.
13. Che, J.* , **K.M. Dorgan**. 2010. Mechanics and kinematics of backward burrowing by the polychaete, *Cirriformia moorei*. *Journal of Experimental Biology* 213: 4272-4277.
14. **Dorgan, K.M.** 2010. Environmental constraints on the mechanics of crawling and burrowing using hydrostatic skeletons. *Journal of Experimental Mechanics* 50(9): 1373-1381. DOI: 10.1007/s11340-010-9399-2
15. Che, J.* and **K.M. Dorgan**. 2010. It’s tough to be small: Dependence of burrowing kinematics on body size. *Journal of Experimental Biology* 213: 1241-1250.
****featured article in “Inside JEB”**
16. **Dorgan, K.M.**, S.R. Arwade, and P.A. Jumars. 2008. Worms as wedges: Effects of the mechanical properties of the medium on burrowing behavior. *Journal of Marine Research* 66(2): 219-254.
17. **Dorgan, K.M.**, S.R. Arwade, and P.A. Jumars. 2007. Burrowing in muddy sediments by crack propagation: forces and kinematics. *Journal of Experimental Biology* 210: 4198-4212.
****F-1000 recommended** (Summers A: 2008. F1000.com/1116373)
18. Jumars, P.A., **K.M. Dorgan**, L.M. Mayer, B.P. Boudreau and B.D. Johnson. 2007. Physical constraints on infaunal lifestyles: May the persistent and strong forces be with you. In: W. Miller, III, Ed. *Trace Fossils: Concepts, Problems, Prospects*. Elsevier, pp. 442-457.

19. **Dorgan, K.M.**, P.A. Jumars, B.P. Boudreau and B.D. Johnson. 2006. Macrofaunal burrowing: The medium is the message. *Oceanography and Marine Biology: An Annual Review* 44: 85-121.
20. Boudreau, B.P., Algar, C., Johnson, B., Croudace, I., Reed, A., **Dorgan, K.M.**, Jumars, P.A., Grader, A.S., Gardiner, B.S., and Y. Furukawa. 2005. Bubble growth and rise in soft sediments. *Geology* 33 (6): 517-520.
21. **Dorgan, K.M.**, P.A. Jumars, B. Johnson, B.P. Boudreau, and E. Landis. 2005. Burrow extension by crack propagation. *Nature* 433: 475.
**ASLO Lindeman award recipient
22. **Dorgan, K.M.**, A. Valdes, and T.M. Gosliner. 2002. Phylogenetic systematics of the genus *Platydoris* (Mollusca, Nudibranchia, Doridoidea) with descriptions of six new species. *Zoologica Scripta* 31: 271-319.

* undergraduate student or post-B.S. intern or technician

Submitted publications

1. **Dorgan, K.M.** in review. Kinematics and mechanics of burrowing by peristalsis in granular sands. *Proceedings of the Royal Society B*.

Patents

US 8561475 B2. Johnson, B.D., B.P. Boudreau, M.A. Barry, K.M. Dorgan, P.A. Jumars. Method and apparatus for investigating mechanical properties of soft materials. Filed on Mar. 18, 2011.

Other Professional Appointments

Sept.-Oct. 2007	Research Assistant, University of Maine
2002-2007	NSF Graduate Research Fellow Darling Marine Center, University of Maine
2002-2004	National Defense Science and Engineering Graduate Fellow, Darling Marine Center, University of Maine
2000 (Fall)	NSF REU Intern, Bermuda Biological Station
2000 (Summer)	NSF REU Intern, Darling Marine Center, University of Maine
1999 (Summer)	NSF REU Intern, Summer Systematics Institute, California Academy of Sciences
1995-1998	Intern, Virginia Institute of Marine Sciences

Invited Lectures

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| 2016 | The Ocean's Seafloor - One Bio-Geo-System, October 12-14, 2016, Hannover, Germany |
| 2016 | Puget Sound Icarus Workshop on Species Traits, March 2-4, 2016, Lacey, WA. |
| 2014 | SoftComp Topical Workshop: Fracture of Soft Materials: from soft solid to complex fluids, October 15-18, 2014, Palavas-les-Flots, France. |
| 2011 | Aspen Ocean Symposium: Microenvironments modulating biological interactions in the ocean, Aspen Center for Physics, January 17-21, 2011, Aspen, CO. |
| 2008 | Nereis Park Bioturbation Meeting, August 23-27, 2008, Renesse, Netherlands. |
| 2007 | Raymond Lindeman Award Plenary Talk, ASLO 2007 Aquatic Sciences Meeting, February 4-9, 2007, Santa Fe, NM. |

Invited Departmental Seminars

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| 2015 | University of Alabama, Marine Science Club, October 6, 2015 (via skype). |
| 2015 | Valdosta University, Biology Department, October 1, 2015, Valdosta, GA. |

- 2015 University of West Florida, Biology Department, March 20, 2015, Pensacola, FL.
- 2014 University of Virginia, Department of Environmental Sciences, December 4, 2014, Charlottesville, VA.
- 2014 Environmental Protection Agency Gulf Ecology Division, March 19, 2014, Gulf Breeze, FL.
- 2014 Whitney Lab, University of Florida, February 21, 2014, St. Augustine, FL.
- 2014 Gulf Coast Research Laboratory, University of Southern Mississippi, February 13, 2014, Ocean Springs, MS.
- 2013 Bigelow Laboratory for Ocean Sciences, East Boothbay, ME. October 3, 2013.
- 2011 University of California, Los Angeles, Department of Ecology and Evolutionary Biology Seminar, November 30, 2011, Los Angeles, CA.
- 2011 Scripps Institution of Oceanography, Marine Biology Seminar, April 1, 2011, La Jolla, CA.
- 2010 Bodega Marine Laboratory, October 20, 2010, Bodega Bay, CA.
- 2010 Romberg Tiburon Center for Environmental Studies, October 6, 2010, Tiburon, CA.
- 2010 University of Southern Mississippi, Department of Marine Science Seminar, April 29, 2010, Stennis, MS.
- 2009 Friday Harbor Laboratories, October 6, 2009, Friday Harbor, WA.
- 2009 Hopkins Marine Station, July 29, 2009, Monterey, CA.
- 2007 Unity College Women's Environmental Leadership Group, March 6, 2007, Unity, ME.
- 2006 Bowdoin College, Biology Department Seminar, November 2, 2006, Bowdoin, ME.

Contributed Presentations

1. Dorgan, K.M. 2016. Biological-physical interactions at organismal scales from sediments to the water column: a celebration of the career of Pete Jumars. Ocean Sciences Meeting. February 21-26, 2016, New Orleans, LA (oral).
2. Dorgan, K.M., C. D'Amelio*, S.M. Lindsay. 2016. Strategies of burrowing in soft muds by diverse polychaetes. Society for Integrative and Comparative Biology Meeting. January 3-7, 2016, Portland, OR (oral).
3. Dorgan, K.M., P.A. Jumars, S.M. Lindsay. 2015. Polychaete Feeding - Synthesized and updated - New diet of worms. Coastal and Estuarine Research Federation Meeting, November 8-13, 2015, Portland, OR (oral).
4. Dorgan, K.M., C. D'Amelio*, S.M. Lindsay. 2015. Strategies of burrowing in soft muds by diverse polychaetes. Southeastern Regional Society for Integrative and Comparative Biology Meeting. October 12, 2015, Atlanta, GA (short oral).
5. Dorgan, K.M. 2015. Food webs in marine sediments: A case study using inquiry-based learning. Conference on Teaching and Learning, University of South Alabama. May 11-12, 2015, Mobile, AL (poster).
6. Dorgan, K.M. 2013. Peristaltic burrowing in beach sands. ASLO 2013 Aquatic Sciences Meeting, February 17-22, 2013, New Orleans, LA (oral).
7. Dorgan, K.M., C.J. Law*, G.W. Rouse. 2013. Meandering through marine muds: kinematics of burrowing and swimming by the polychaete *Armandia brevis*. Society for Integrative and Comparative Biology 2013 Annual Meeting, January 3-7, 2013, San Francisco, CA (oral).
8. Dorgan, K.M., G. Rouse. 2012. Peristaltic burrowing in beach sands by the polychaete, *Thoracophelia mucronata*. Society for Integrative and Comparative Biology 2012 Annual Meeting, January 3-7, 2012, Charleston, SC (oral).
9. Dorgan, K.M., S. Lefebvre, J.H. Stillman, M.A.R. Koehl. 2011. Energetics of burrowing by the cirratulid polychaete, *Cirriformia moorei*. Society for Integrative and Comparative Biology 2011 Annual Meeting, January 3-7, 2011, Salt Lake City, UT (oral).
10. Dorgan, K.M. 2010. The role of anaerobic metabolism in burrowing energetics. Ocean Sciences Meeting, February 22-26, 2010, Portland, OR (oral).
11. Dorgan, K.M., S. Arwade, P.A. Jumars. 2009. Worms as wedges: Effects of sediment mechanics on burrowing behavior. Society for Integrative and Comparative Biology 2009 Annual Meeting, January 3-7, 2009, Boston, MA (oral).

12. Dorgan, K.M., P.A. Jumars. 2007. Burrowing by crack propagation: Why worms are wedges. 9th International Polychaete Conference, August 13-17, 2007, Portland, ME (oral).
13. Dorgan, K.M., P.A. Jumars, S. Arwade. 2007. Burrowing in muddy sediments by crack propagation. Society for Integrative and Comparative Biology 2007 Annual Meeting, January 3-7, 2007, Phoenix, AZ (oral).
14. Dorgan, K.M., P.A. Jumars, S. Arwade. 2006. Burrowing by fracture: Application of fracture models to bioturbation. Ocean Sciences Meeting, February 20-24, 2006, Honolulu, HI (poster).
15. Dorgan, K.M., and P.A. Jumars. 2005. Mechanical constraints on marine burrowers. Estuarine Research Federation 2005, October 16-20, 2005, Norfolk, VA (oral).
16. Dorgan, K.M., P.A. Jumars, S. Arwade. 2005. Mechanical constraints on burrowing in marine sediments. Jacques Monod Conference on Physico-Chemical Ecology of Organisms, September 24-28, 2005, Roscoff (Brittany), France (poster).
17. Dorgan, K.M., P.A. Jumars, B.P. Boudreau, B.D. Johnson, & E. Landis. 2005. Mechanics of burrowing: Implications for benthic studies. ASLO Summer Meeting 2005, June 19-24, 2005, Santiago de Compostela, Spain (poster).
18. Dorgan, K.M., and P.A. Jumars. 2005. Burrowing in mud and sand: Different mechanisms in different media. 34th Annual Benthic Ecology Meeting, April 6-10, 2005, Williamsburg, VA (poster).
19. Dorgan, K.M., and P.A. Jumars. 2004. Unsteady burrowing by crack propagation. ASLO/TOS Ocean Sciences Meeting, February 15-20, 2004, Honolulu, HI (oral).

Co-authored Presentations

1. Zeh, M., Wilson, P.S., Lee, K.M., Ballard, M., Dorgan, K.M. 2016. Acoustic scattering by tube-building worms (Polychaeta: Maldanidae) of the New England Mud Patch. 5th Joint Meeting of the Acoustical Society of America and Acoustical Society of Japan, December 1, 2016, Honolulu, HI.
2. Lee, K.M., Ballard, M.S., Wilson, P.S., Dorgan, K.M., Reed, A.H., Roosen, E. Preliminary characterization of surficial sediment acoustic properties and infauna in the New England Mud Patch. Acoustical Society of America Spring 2016 Meeting, May 23-27, 2016, Salt Lake City, UT.
3. Keller, E.L.* , T.E. Caffray* , S.K. Berke, K.M. Dorgan, S. Bell, A. Robertson, K. Baltzer, W.C. Clemo* , K. Gadeken#. Oxygen fluxes in Gulf of Mexico sediments. 2016 Oil Spill and Ecosystem Science Conference. February 1-4, 2016, Tampa, FL.
4. Keller, E.L.* , T.E. Caffray* , S.K. Berke, K.M. Dorgan, S. Bell, A. Robertson, K. Baltzer, W.C. Clemo* , K. Gadeken#. Oxygen fluxes in Gulf of Mexico sediments. Society for Integrative and Comparative Biology Meeting. January 3-7, 2016, Portland, OR.

Presentations by my students

1. Gadeken, K.# , K.M. Dorgan, J. Moore, S.K. Berke. 2016. Application of ecophylogenetics to benthic communities in the Northern Gulf of Mexico. Do functional traits follow phylogeny? Ocean Sciences Meeting. February 21-26, 2016, New Orleans, LA.
2. Clemo, W.C.* , K.M. Dorgan. 2016. Functional morphology of Eunicidan (Polychaeta) jaws. Ocean Sciences Meeting. February 21-26, 2016, New Orleans, LA.
3. Gadeken, K.# , K.M. Dorgan, J. Moore, S.K. Berke. 2016. Application of ecophylogenetics to benthic communities in the Northern Gulf of Mexico. Do functional traits follow phylogeny? Society for Integrative and Comparative Biology Meeting. January 3-7, 2016, Portland, OR.
4. Clemo, W.C.* , K.M. Dorgan. 2015. Functional morphology of Eunicidan (Polychaeta) jaws. Southeastern Regional Society for Integrative and Comparative Biology Meeting. October 12, 2015, Atlanta, GA.
5. Grill, S.* , K. M. Dorgan. 2014. Burrowing by small polychaetes - mechanics, behavior, and muscle structure of *Capitella* sp. Society for Integrative and Comparative Biology 2014 Annual Meeting,

January 3-7, 2014. Austin, TX (poster). ** awarded Division of Invertebrate Zoology Student Poster Award

6. Law, C.J.*, K.M. Dorgan, G.W. Rouse. 2013. Differences in polychaete musculature lead to distinct burrowing behaviors. Society for Integrative and Comparative Biology 2013 Annual Meeting, January 3-7, 2013, San Francisco, CA (poster).
7. Francoeur, A.A.*, K.M. Dorgan. 2013. Mud versus sand: Morphological and behavioral comparison of two species of burrowing orbinid polychaetes. Society for Integrative and Comparative Biology 2013 Annual Meeting, January 3-7, 2013, San Francisco, CA (poster).
8. Law, C*, K.M. Dorgan, G. Rouse. 2012. The kinematics and anatomical features of undulatory burrowing in *Armandia brevis*. Society for Integrative and Comparative Biology 2012 Meeting, Charleston, SC (poster).
9. Che, J*, K.M. Dorgan. 2010. Do the ends justify the means? Mechanics and kinematics of forward and backward burrowing. Ocean Sciences Meeting, February 22-26, 2010, Portland, OR (poster).
10. Murphy, E.A.K.*, K.M. Dorgan. 2010. Long thin slimy ones, short fat juicy ones: Exploring how worms with varying body morphologies burrow. Ocean Sciences Meeting, February 22-26, 2010, Portland, OR (poster).
11. Zeman, S.M.*, K.M. Dorgan. 2010. A two-way street: Burrow bioirrigation behavior and boundary layer flow. Ocean Sciences Meeting, February 22-26, 2010, Portland, OR (poster).
12. Che, J.*, K.M. Dorgan. 2009. It's tough to be small: Dependence of burrowing kinematics on body size. Society for Integrative and Comparative Biology 2009 Annual Meeting, January 3-7, 2009, Boston, MA (poster).

* undergraduate student or post-B.S. intern or technician

graduate student

Teaching experience

1. Marine Ecology (4 credit, upper-division undergrad), Dauphin Island Sea Lab Summer Programs, 2014-current.
2. Biological-physical Interactions (3 credit, graduate), University of South Alabama, Spring 2015.
3. Marine Sediment Ecology (3 credit, graduate), University of South Alabama, Spring 2016.
4. The future of marine ecosystems (1 credit, UC Berkeley freshman seminar), Fall 2009.
5. Invertebrate zoology (3 weeks), taught classes on invertebrate locomotion, feeding, and digestion, Fall 2006 (UMaine, course taught by Kevin Eckelbarger).
6. Design of Marine Organisms (2 weeks), taught classes on burrowing mechanics and suspension feeding, Fall 2006 (UMaine, course taught by Pete Jumars).
7. Marine Sediment Ecology, taught one lecture on burrowing, Spring 2004 (UMaine, course taught by Pete Jumars, Les Watling, and Larry Mayer).
8. Teaching assistant (volunteer) for Physical Oceanography, Fall 2004 (UMaine, course taught by Neal Pettigrew).

Membership in Professional Societies

American Association for the Advancement of Science
American Geophysical Union
Association for the Sciences of Limnology and Oceanography
Society for Integrative and Comparative Biology

Synergistic Activities

1. Mentoring of students: Have supervised 12 undergraduate students (7 women) and a high school teacher on projects including burrowing kinematics of several species of polychaetes, forces exerted by glycerid polychaetes, flow into and out of worm burrows, metabolism of burrowing, and the fluid-gel transition in muddy sediments.
2. Outreach to the public: My research has been featured in public media in which I interacted with reporters to communicate my work to the general public, including *Popular Science* (October 2006), the *Maine Sunday Telegram* (Oct. 1, 2006), “Maine Things Considered” on Maine Public Radio (Feb. 16, 2005), *The New York Times* (Feb. 15, 2005), and *New Scientist* (Feb. 5-11, 2005).
3. Outreach to K-12 students: Presented workshops at the Expanding Your Horizons conference for 7th and 8th grade girls to encourage them to pursue careers in science and technology at the University of Maine, March 15, 2007 and at University of San Diego, March 5, 2011. Volunteer for Scripps Community Outreach Program for Education (SCOPE) at Scripps; Lawrence Hall of Science MARE (Marine Activities, Resources and Education) program, Berkeley, CA; Gulf of Maine Foundation at the Darling Marine Center, teaching visiting school groups about marine science (most frequently, sediment ecology).
4. Professional service: Co-chair for session “Biological-physical interactions at organismal scales from sediments to the water column” at Ocean Sciences meeting 2016. Co-chair for session BO17: Linking Ecology and Biogeochemistry in Coastal Sediments: New Approaches for the 21st Century at ASLO 2010. Reviewer for *Limnology and Oceanography*, *L&O Methods*, *Science*, *Ecology*, *Journal of Experimental Biology*, *Marine Ecology*, *Marine Ecology Progress Series*, *Biological Bulletin*, *Invertebrate Biology*, *Aquatic Biology*, *Journal of the Royal Society: Interface*, *Integrative and Comparative Biology*, *Journal of Theoretical Biology*, *Journal of Comparative Physiology B*, *Aquatic Biology*, *Estuarine, Coastal and Shelf Science*, *Physical Biology*, *Journal of the Marine Biological Association of the UK*, *Geochemical Transactions*, and Wiley-Blackwell Publishers, as well as for the NSF Biological Oceanography Program, Chemical Oceanography Program, and Division of Environmental Sciences.
5. Departmental service: Department of Marine Sciences Representative for University of South Alabama Library Committee (2014-current); Graduate Student Representative for the School of Marine Sciences, which involved attending faculty meetings, serving as both a voice for student interests and a liaison between students and faculty (2006-2007). Chair of the committee of graduate students to organize the seminar series at the Darling Marine Center (2005).