

CURRICULUM VITAE (May, 2016)**Eric J. Schott**

Institute of Marine and Environmental Technology
University of Maryland Center for Environmental Science
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Education

1993 PhD, Genetics. Harvard University Medical School, Boston, MA. (Advisor F. Ausubel)
1985 Bachelor of Arts, Biology. Reed College, Portland OR.

Appointments

2010-present Research Assistant Professor, IMET-UMCES, Baltimore, MD
2006-2010 Research Assistant Professor, UMBI-Center of Marine Biology, Baltimore, MD.
Development of molecular tools to understand the protozoan parasite of blue crab, *Hematodinium perezii*, and discovery of a virus pathogenic to blue crab
1997-2006 Research Associate, UMBI-Center of Marine Biotechnology, Baltimore, MD.
Cell biology and biochemistry of oxidative stress resistance in the protozoan parasite of oyster, *Perkinsus marinus* (Mentor, G. Vasta)
1995-1997 Postdoctoral Fellow, Dept. of Biology, Johns Hopkins University, Baltimore, MD.
Genetics of chromosome segregation in yeast (Mentor, A. Hoyt)
1994-1995 Postdoctoral Fellow, School of Biol. Sciences University of Auckland, Auckland, New Zealand. Aluminum toxicity in Arabidopsis and yeast (Mentor, R. Gardner)

Research and Teaching Interests

- Molecular parasitology and biotechnology
- Development and application of molecular tools to discover and monitor marine pathogens, with a focus on viruses of invertebrates
- Novel approaches to discovering marine and aquaculture pathogens
- Science communication with nonscientists in urban and fishing communities

Peer Reviewed Publications

Flowers, E.F., Bachvaroff, T.R., Warg, J.V., Neill, J.D., Killian, M.L., Vinagre, A.S., Almeida, A., Zhan, Y., Schott, E.J. 2016. Genome sequence analysis of CsRV1, a pathogenic reovirus that infects the blue crab *Callinectes sapidus* across its trans-hemispheric range. FrontiersIn Microbiology. <http://dx.doi.org/10.3389/fmicb.2016.00126>.
Flowers, E.F., Simmonds, K., Messick, G.A., Sullivan, L., Schott, E.J. 2015. PCR-based prevalence of a fatal reovirus of the blue crab, *Callinectes sapidus* Rathbun (1896), along the northern Atlantic coast of the USA. J Fish Disease. DOI: 10.1111/jfd.12403.

- Rogers H., Taylor S., Hawke J., **Schott** E., Anderson Lively J. 2015. Prevalence of blue crab (*Callinectes sapidus*) diseases, parasites, and commensals at shedding facilities in Louisiana, USA. Dis. Aquat. Org. 112: 207–217.
- Pié, HV, **Schott**, EJ, Mitchelmore, CL. 2015. Investigating physiological, cellular and molecular effects in juvenile blue crab, *Callinectes sapidus*, exposed to field-collected sediments contaminated by oil from the Deepwater Horizon Incident. Sci of the Total Env. 532:528-539.
- Chung JS, Pitula JS, **Schott** E, Alvarez JV, Maurer L, Lycett KA. 2015. Elevated water temperature increases the levels of reo-like virus and selected innate immunity genes in hemocytes and hepatopancreas of adult female blue crab, *Callinectes sapidus*. Fish Shellfish Immunol. 47:511-520.
- Gandy, R., **Schott**, E.J., Crowley, C., Leone, E.H. 2015. The correlation of temperature with annual changes in prevalence of *Hematodinium perezii* in blue crab *Callinectes sapidus* in Florida Dis. Aquat. Org. 113:235.
- Schreier, H. and **Schott**, E. J. 2015. Draft genome sequence of the shellfish bacterial pathogen *Vibrio* sp. strain B183. Genome Announcements. 2 (5), e00914-14.
- Schreier, H. and **Schott**, E. J. 2014. Draft genome sequence of the oyster larval probiotic bacterium *Vibrio* sp. strain OY15. Genome Announcements. 2 (5), e01006-14.
- Small, H.J., Miller, T.L., Coffey, A.H., Delaney, K.L., **Schott**, E. and Shields, J.D. 2013. Discovery of an opportunistic starfish pathogen, *Orchitophrya stellarum*, in captive blue crabs, *Callinectes sapidus*. J Invert Pathol. 114:178-185
- Hanif, A., Dyson, D., Bowers, H., Messick, G., Jagus, R. and E. **Schott**. 2013. Variation in temporal and spatial incidence of the crustacean pathogen *Hematodinium perezii* in environmental samples from Atlantic coastal bays. Aquatic Biosystems. 9:11
- Lim, H. J., Kapareiko, D., **Schott**, E. J., Hanif, A., and G. H. Wikfors. 2011. Isolation and evaluation of a new. Probiotic bacteria for use in shellfish aquaculture hatcheries: I. Isolation and screening for bioactivity. J. Shellfish Res. 30:609-615
- Kapareiko, D., Lim, H. J., **Schott**, E. J., Hanif, A., and G. H. Wikfors. 2011. Isolation and evaluation of a new, probiotic bacteria for use in shellfish aquaculture hatcheries: II. Effects of a *Vibrio* sp. probiotic candidate upon survival of oyster larvae (*Crassostrea virginica*) in pilot-scale trials. J. Shellfish Res. 30:617-625
- Bowers, H. A., Messick, G., Hanif, A., Jagus, R., Carrion, L., Zmora, O., and **Schott, E.J.** 2010. The physicochemical properties of double stranded RNA used to discover a reo-like virus from blue crab (*Callinectes sapidus*), Dis. Aquat. Org. 93:17
- Sandeep J. J., Fernández-Robledo, J., Gardner, M.J., El-Sayed, N.M., Kuo, C-H, **Schott**, E.J., Wang, H, Kissinger, H.C., and Gerardo R. Vasta. 2010. The Alveolate *Perkinsus marinus*: Biological Insights from EST Gene Discovery BMC Genomics, 11:228.
- Nagle, L., Place, A. R., **Schott, E.J.**, Jagus, R., Messick, G. and Pitula, J.S. 2009. A real-time quantitative PCR-based assay for enhanced detection of *Hematodinium* sp. infection in the blue crab (*Callinectes sapidus*) Dis. Aquat. Org. 84:79-87
- Zohar, Y., Hines, A.H., Zmora, O., Johnson, E.G., Lipcius, R.N., Seitz, R.D., Eggleston, D.B., Place, A.R., **Schott**, E.J., Stubblefield, J.D., Chung, J.S. 2008. The Chesapeake Bay blue crab (*Callinectes sapidus*): a multidisciplinary approach to responsible stock replenishment. Reviews in Fisheries Science 16: 25-35
- Pecher, W. T., Alavi, M., **Schott, E. J.**, Robledo, J-A. F., Roth, L., Berg, S. T., Vasta. G. R. 2008. Assessment of the northern distribution range of selected *Perkinsus* species in Eastern Oysters (*Crassostrea virginica*) using PCR-based detection assays. J. Parasitology 94:410-22

- Fernández-Robledo J.A., **Schott E.J.**, Vasta G.R. 2008. *Perkinsus marinus* superoxide dismutase 2 (PmSOD2) localizes to single-membrane subcellular compartments. *Biochem Biophys Res Commun.* 375:215-219
- Schott, E.J.**, Fernández-Robledo, J-A. F., Alavi, M., and Vasta, G. R. 2008. Susceptibility of *Crassostrea ariakensis* (Fujita 1913) to *Bonamia* and *Perkinsus* spp. infections: potential for disease transmission between oyster species. *J. Shellfish Res.* 27: 541-9
- Alavi, M., **Schott, E. J.**, Saito, K., and Vasta, G. R. 2008. Comparative survey of bacterial pathogens associated with *Crassostrea virginica* and *C. ariakensis* (Fujita 1913) *J. Shellfish Res* 27: 551-8
- Asojo, O.A., **Schott, E.J.**, Vasta, G.R. and Silva, A.M. 2006. The crystal structures of two superoxide dismutases from *Perkinsus marinus*. *Acta Crystallograph Sect F Struct Biol Cryst Commun.* 1;62:1072-5
- Schott, E. J.**, Pecher, W. T., Okafor, F., and Vasta, G. R. 2004. The protistan parasite *Perkinsus marinus* is resistant to selected reactive oxygen species. *Exp. Parasitol.* 105:232.
- Ahmed, H., **Schott, E. J.**, Gauthier, J. D., Vasta, G. R. 2003. Superoxide dismutases from the oyster parasite *Perkinsus marinus*: Purification, biochemical characterization, and development of a plate microassay for activity. *Anal Biochem.* 318:132-41.
- Schott, E.J.**, Robledo, J-A. F., Wright, A. C., Silva, A. M., and G. R. Vasta 2003. Gene organization and homology modeling of two iron superoxide dismutases of the early branching protist *Perkinsus marinus*. *Gene*, 309:1-9.
- Schott, E.J.**, Vasta, G.R. 2003. A superoxide dismutase gene from the protistan parasite *Perkinsus marinus* is genetically and biochemically functional in *Saccharomyces cerevisiae*. *Molec. Bioch. Parasitol.* 126: 81-92.

Manuscripts in preparation

- Flowers, E.M., Aguilar, R., and **Schott, E.J.** "Prevalence of *C. sapidus* reo-like virus (RLV) in relation to flow-through shedding in the Chesapeake Bay"
- Schott, E.**, Liu, C-l., Place, A., Mitchelmore, C., Messick, G. "Uptake and depuration in blue crab (*Callinectes sapidus*) of microcystin from a natural bloom of toxic cyanobacteria"
- Schott, E.J.**, Bowers, H.A., Messick, G. "Comparison of PCR and histological assessments of *Hematodinium* prevalence in MD coastal bays"
- Dungan, C., and **Schott, E.J.** "Genome sequencing and development of tools to monitor a novel adeno-like virus of the soft clam, *Mya arenaria*"

Invited presentations 2010-2015 (scientific and outreach)

- Interstate Seafood Seminar. April 16, 2015. Ocean City MD. "Identifying viruses in soft shell crab operations"
- Crab symposium, Carrie Weedon Science Education Center, Galesville MD. April 19, 2015. "Mortality and disease in blue crabs"
- Chesapeake Bay Program Sustainable Fisheries Goal Implementation Team. July 21, 2014. "Soft shell crab production and a fatal reovirus of blue crab"
- Tilghman Winter lecture series, organized by Phillips Wharf Environmental Center. March 8, 2014. "The Health of the Bay: The Blue Crab Perspective"
- MD Watermen's Convention. Ocean City, MD. January 19, 2013. "Update on what science tells us about dead loss in soft crab production"

- Delaware State University. Department of Biology. January 24, 2013. "Should we worry about a fatal virus of blue crabs in the mid-Atlantic?"
- Notre Dame University of Maryland, Biology Department. March 17, 2012. "Chesapeake Bay health from the blue crab perspective"
- Baltimore Ethical Society, Dec. 4, 2011. Public lecture: "Living upstream and working downstream in the Chesapeake watershed"
- Emerging Pathogens Institute, University of Florida, Gainesville. Feb. 2, 2011. "Crustacean virus discovery by a physicochemical approach"
- University of Florida School of Forest Resources and Conservation. Feb 3, 2011. "Monitoring blue crab diseases with molecular tools"
- West Chester University, West Chester, PA. Nov. 1, 2010. "Monitoring blue crab diseases with molecular tools"
- Smithsonian Environmental Research Center, Edgewater, MD. Nov. 4, 2010. "Monitoring blue crab diseases with molecular tools"
- Hollings Marine Lab, Charleston SC. October 7, 2010. "Monitoring blue crab diseases with molecular tools"
- Florida Fish and Wildlife Research Institute, St Petersburg, FL. Oct 21, 2010. "Building a molecular toolbox to study blue crab diseases"
- UMCES Horn Point Laboratory, Cambridge, MD. Sept. 22, 2010. "Monitoring blue crab diseases with molecular tools"

Conference presentations

- Schott, E.J., Flowers, E.A., Almeida, A., Vinagre, A., Brown, S. "A lethal virus of the blue crab *Callinectes sapidus* may be present throughout its trans-hemispheric range" Ocean Sciences Meeting, New Orleans, LA. February 21-26, 2016.
- Schott, E.J., Flowers, E.A., Almeida, A., Vinagre, A., Brown, S. "A lethal virus of the blue crab *Callinectes sapidus* may be present throughout its trans-hemispheric range" FENACAM and LACQUA/SARA, Forateleza Brazil. November 16-20, 2015.
- Flowers, E.M., Simmonds, K., Schott, E.J. "Spatially and temporally variable prevalence of a virus fatal to blue crab, *Callinectes sapidus*". 40th Annual Eastern Fish Health Workshop, Charleston, SC. March 2-6, 2015.
- Flowers, E.M., Schott, E.J. "Prevalence of *Callinectes sapidus* reo-like virus, RLV, in the Chesapeake Bay". National Shellfisheries Association 106th annual meeting, Jacksonville, FL. March 29-April 2.
- Warg, J., Flowers, E.M., Schott, E.J., Neill, J.D., Killian, M.L. "Use of the ion PGMTM system to identify and characterize viruses in aquatic diagnostic samples". 39th Annual Eastern Fish Health Workshop, Atlantic Beach, NC. April 29- May 2, 2014.
- Flowers, E.M., Simmonds, K., Bowers, H., Schott, E.J. "A fatal reovirus of the blue crab, *Callinectes sapidus*, that has potential to impact the host throughout its range". American Fisheries Society Mid-Atlantic chapter meeting, Tuckerton, NJ. Nov. 14-15, 2013.
- Flowers, E.M., Johnson, E.R., Aguilar, R., Jagus, R., Schott, E.J. "Assessing *Callinectes sapidus* reo-like virus (RLV) prevalence and fishery impacts in the Chesapeake Bay" Benthic Ecology Meeting. Savannah, GA. March 20-24, 2013.
- Hanif, A., Mensinger, M., McIntosh, D., Perry, D., Goldberg, R., Schott, E.J. "Will climate change alter the prevalence of pathogens of the blue crab (*Callinectes sapidus*) in the Northeast USA?" NACE/ICSR/Milford Seminars, Mystic CT. Dec. 13-15, 2012.

- Hanif, A., Mensinger, M., McIntosh, D., Estrella, B., Goldberg, R., Schott, E.J. "Assembling a program to monitor the prevalence of pathogens of the blue crab (*Callinectes sapidus*) in the Northern limit of its range". National Shellfisheries Association 104th meeting. Seattle, WA. March 25-29, 2012.
- Flowers, E.M., Whitaker, B., Arnold, J., Jenkins, E., Torres, L., Droppa, D., Schott, E.J. "How does a fatal reovirus of the blue crab, move from crab to crab?" 37th Annual Eastern Fish Health Workshop. Lake Placid, NY. April 23-17, 2012.
- Hanif, A., Ogburn, M., White, S., Bedu, P., Schott, E.J. "Using molecular methods to monitor pathogens in early life history of blue crabs (*Callinectes sapidus*)" National Shellfisheries Association 103rd meeting. Baltimore MD. March 27-21, 2011.
- Hanif, A., Bowers, H., McIntosh, D., Dyson, W., Pitula, J., Jagus, R., Schott, E.J. National Shellfisheries Association 103rd meeting. Baltimore MD. March 27-21, 2011."Using PCR methodology to search for an environmental presence of *Hematodinium* sp., a lethal parasite of blue crab *Callinectes sapidus*."
- Kapareiko, D., Lim, H. J., Schreier, H., Schott, E.J., Wikfors, G. "Interactions of a probiotic bacterium and a shellfish larvae pathogen during hatchery larviculture of Eastern oysters (*Crassostrea virginica*)" National Shellfisheries Association 103rd annual meeting. Baltimore MD. March 27-21, 2011.
- Bowers, H.A., L Carrion, GA Messick, O Zmora, A Hanif, R Jagus, EJ Schott. "A fatal reovirus is highly prevalent in blue crab, *Callinectes sapidus*, in aquaculture and soft shell crab production facilities" 6th International Symposium on Aquatic Animal Health. Tampa FL . Sept. 5-9, 2010.
- Bowers, H.A., L. Carrion, A. Hanif, G. A. Messick, O. Zmora, E. J. Schott "A fatal reovirus associated with mortalities of blue crab *Callinectes sapidus* in aquaculture and soft shell production facilities" International Marine Biotechnology Conference, Qingdao, China. October 5-8, 2010.
- Schott, E.J., Bowers, H., Zmora, O. "Molecular monitoring of a blue crab *Callinectes sapidus* reo-like virus in aquaculture and soft shell production facilities" World Aquaculture Society meeting, San Diego, CA. March 1-5, 2010.
- Kapareiko, D., G. H. Wikfors, J. H. Alix, E. Schott, D. McIntosh, H. J. Schreier, O. Ukaegbu, and J. M. Rash. "Competitive exclusion or immune response? How does a prospective probiotic bacterium function in larvae for the oyster *Crassostrea virginica*?" World Aquaculture Society, Aquaculture 2010 meeting, March 1-5, 2010.
- Kapareiko, D., G. H. Wikfors, J. H. Alex, E. Schott, H. J. Schreier, D. McIntosh, J. M. Rash, O. Ukaegbu. "Potential mechanisms by which a prospective probiotic bacterium can improve survival of oyster larvae (*Crassostrea virginica*): Competitive exclusion of immune regulation" Milford Aquaculture Seminar, February 8-10, 2010.
- Bowers, H.A., A. Hanif, L. Carrion, E.J. Schott. "Molecular discovery of crustacean RNA viruses". SCOR Viral Ecology Meeting, Newark, DE. May 14-15, 2009.
- Donaldson, J. R., A. Hanif, H. A. Bowers, J. S. Pitula, G. A. Messick, E. J. Schott. "Evidence for the blue crab parasite, *Hematodinium* sp. in coastal bay benthos." National Shellfisheries Association 101st Annual meeting, Savannah GA. March 23-25, 2009.
- Bowers, H. A., Hanif, A., Messick, G. A., and E. J. Schott. "Molecular characterization of a *Callinectes sapidus* reovirus and development of tools to monitor its presence in wild and in captive crabs" National Shellfisheries Association 101st Annual meeting, Savannah GA. March 23-25, 2009.

Teaching and mentoring

- 2015 MEES 608C Diseases in Chesapeake Bay Fisheries. 2 credit seminar.
- 2015 MEES 698T/498T Marine and Environmental Biotechnology. Team taught with IMET faculty. S. Chung course organizer.
- 2013-2015 Guest lecturer for MEES 498/698I; Chesapeake Bay Health. C. Mitchelmore leader.
- 2014 Cell and Molecular Biology (3 credits), UMBC Biotechnology Masters program.
- 2008-present MEES 608C graduate seminar, “Diseases in Chesapeake Bay”. Offered in alternate years.
- 2006-present Mentor for summer interns in the NOAA-LMRCSC program.
- 2004-2006 Adjunct faculty, Sojourner-Douglass College. Lab instructor and curriculum consultant for the Ecology course.

Commissions and boards

- 2015 National Aquarium Urban Wetland Advisory Team
- 2014 -2015 Fish Habitat workgroup, facilitated by MD DNR.
- 2012 -2015 Board of directors, Phillips Wharf Environmental Center, a 501(c)(3) educational nonprofit dedicated to inspiring good stewardship of the Bay. Capital campaign committee, governance committee.
- 2007-present Member of the Oyster Advisory Commission.
This body was appointed by the Governor to advise the MD Dept. of Natural Resources, on MD’s oyster restoration and harvesting strategies.
- 2003-2012 Board of directors, Jones Falls Watershed Association and Blue Water Baltimore, a regional 501(c)(3) that works to restore the health of Baltimore’s streams, harbor and the Chesapeake Bay. Served as Science and Technical Advisory Committee member. Served on the transition committee that merged 5 watershed organizations into BWB.

Legislative and Outreach

- 2015 Federal Hill Elementary, Baltimore. “Green Science Night”. Water quality and crab demonstration. April 23, 2015.
- 2015 Phillips Wharf Environmental Center, Tilghman Island. “Bay Day” Blue crab demonstration. May 2, 2015.
- Sept., 2012 Panelist for University of Baltimore, Helen P. Denit Honors evening program: “Are You Smart About Our Harbor?” Discussion of watershed science with a public audience. Host: Jeff LaNoue, Project and Sustainability Planner.
- 2008-2012 Annual blue crab demonstration at Roland Park public elementary school. Juvenile and adult crabs, and printed materials, are used to stimulate discussion of crab life history, habitat, and how humans interface with the Chesapeake Bay.
- 2011, 2015 Provide expert testimony to Maryland House of Delegates and Senate on proposed legislation pertaining to pesticide use reporting and Chesapeake Bay health.

Service

- 2015 UMCES Effectiveness and Efficiency committee, chaired by Erica Kropp.
- 2015 UMCES Self Study Working Group 5. “Educational offerings and related

- educational offerings”, chaired by Tom Miller.
- 2012-2015 UMCES Sustainability Committee. Current Chairman Ray Cho.
- 2012 Contributor to the 2013 GSMFC Fishery Management Plan for Blue Crabs in the Gulf of Mexico, Section editor Ryan Gandy, FWRI.
- 2010-2012 NOAA-LMRCSC Science Advisory Committee. Work included developing an internal competitive RFP to distribute funds to LMRCSC consortium members.
- 2010 Applied for funding to NSF, MDSG, and other federal agencies to support student travel to the 2010 IMBC conference in Qindao, China. \$25,000 was raised.
- 2008-2013 External grant reviewer for Oregon Sea Grant, VA Sea Grant, AAAS/Rhode Island Research Alliance.
- 2008-2012 Manuscript reviewing for Diseases of Aquatic Organisms, Journal of Invertebrate Pathology, BMC Genomics, and Aquaculture Environment Interactions.
- 2009-2010 Member of the MDSG Ecosystem-based Fisheries Management blue crab team.
<http://www.mdsg.umd.edu/programs/policy/ebfm/bioteam/bluecrab/>

Professional Societies

National Shellfisheries Association. Co-chair of “Crustaceans” session at 2010 and 2014 meetings
 World Aquaculture Society
 American Society of Microbiology

Media coverage (selected from 15 available on the UMCES media page)

WYPR, March 31, 2015. reporting on neonicotinoids, used 2015 Schott testimony before the House Education, Health and Environmental Affairs Committee. “Protections for Honey Bees Killed by Farm Lobby” <http://wypr.org/post/protections-honey-bees-killed-farm-lobby>

Baltimore City Paper. Nov. 17, 2014. “Whose Poop?: A new project measures sewage and dog waste entering the Jones Falls from stormwater”

The Star Democrat (Eastern Shore). March 4, 2013. “Schott to talk Bay through the eyes of a blue crab”

Baltimore Sun, Jan. 24, 2011. “Researchers find virus plaguing soft-crab businesses”

Bay Journal, March 1, 2011. “Researchers discover viruses responsible for peeler crab deaths

Fisheries Information Service Jan. 26, 2011. “Research could lower mortalities in harvested soft shell crabs“

MD Watermen’s Gazette. August 2011. Information about the blue crab reovirus and best practices for avoiding soft crab mortality.

Un-funded and non-academic collaborators and partners

State and Federal Agencies

Delaware DNREC- Rich Wong
 DE Bay National Estuarine Research Reserve- Bob Scarborough
 Florida Fish and Wildlife Research Institute- Ryan Gandy
 Maryland Dept of Natural Resources- Chris Dungan
 Massachusetts Division of Marine Fisheries- Derek Perry
 NOAA Milford Lab- Gary Wikfors, Ron Goldberg
 NOAA Oxford Lab- Gretchen Messick
 NOAA Sandy Hook Lab- Linda Stehlik
 USDA- Janet Warg, John Neill

International and US territory

Michmoret, Israel- Yaron Tikochinski
 Federal University of Rio Grande do Sul, Brazil- Anapaula Vinagre
 Federal University of Sergipe, Brazil- Gustavo Hirose
 University of Lecce, Italy- Giorgio Mancinelli
 University of Puerto Rico- Ernesto Weil

Non-profits

Blue Water Baltimore
 National Aquarium in Baltimore
 MD Watermen's Association
 Anne Arundel Watermen's Association

Students MentoredGraduate student

Ammar Hanif. MEES program. Completed MS December, 2012.
 Emily Flowers. MEES program. Completed MS May, 2015.
 Matthew Spitznagel. MEES program. 2015 onward.

Summer interns

2015 - Chiamaka Nnah (UMES), LaTaija Crawford (Del State), Andréa Almeida (Sergipe Brazil)
 2014 - Shanai Brown (Morgan State University)
 2013 - Folasade Ekulona (Univ Balt)
 2012 - Erica Igwacho (UMBC)
 2011 - Laura Torres (Univ TX, Pan American)
 2010 - Peter Bedu (Del State)
 2009 - Oluchi Ukaegbu (Del State), Jessica Rash (Del State)
 2008 - Joanna Donaldson (UMES), Ammar Hanif (Morgan State)
 2007 - Scha-chia Murphy (UMES), Kimberly Williams (UMES)

Graduate student committees

Jenna Malek, MS completed 2010, MEES Program. Advisor: D. Breitburg, SERC.
 Lauren Oates, MS completed 2012, MEES program. Advisor: Harold Schreier, IMET-UMBC.
 Hannah Pié, PhD completed 2014, GPILS program. Advisor: C. Mitchelmore, UMCES-CBL.
 Jerren Liu, PhD completed May 2015, MEES program. Advisors, R. Jagus and A. Place, UMCES-
 IMET.

Volunteers, capstone and other interns

Fall 2015. Eunice Handy and Nivette Perez Perez, Master's students. Delaware State University.
 Fall-Spring 2015-16. Faith Wilkins, High school Senior, Baltimore Polytechnic senior practicum.
 Fall-Spring 2013-14. Luke Sullivan, High school Senior, Baltimore Polytechnic senior practicum.
 Fall-Spring 2011-12. David Billups, High school Senior, Baltimore Polytechnic senior practicum.
 Fall 2011. Tal Idan, Visiting student, Ruppin Academic Center, Michmoret, Israel.
 Spring 2011. Daniel Droppa, undergraduate intern, in collaboration with National Aquarium.
 Dec. 2010- May 2012. Emily Flowers, post-baccalaureate at UM, College Park.

Fall-Spring 2010-11. Olivia Goldman, High school Senior, Baltimore Polytechnic senior practicum.

Summer 2010. Jonathan Juba, Community College of Baltimore County.

Spring 2009. Amir Khoueisse, undergraduate, ESPOL, Ecuador.

Summer 2009. Alex Radebaugh, pre-vet, Bucknell University.

Fall 2009- Roxanne Rigger, Community College of Baltimore County.

Fall 2008- Lattoya Hawkins, The BioTechnical Institute of Maryland Inc., BCCC.