Grants Awards:

Malin Pinsky. Genetic monitoring to improve fish stock assessments. NJ Sea Grant $68,875

David Bushek. REU: Development of a theoretical basis for modeling disease processes in marine invertebrates. $6,454


Scott Glenn. An advanced atmospheric/ocean assessment program- Analytical modeling and predictions. SJ-BPU $450,789

Enrique Curchister. Collaborative research: EaSM-3 regional and decadal predictions of coupled climate-human systems. NSF $800,000

Scott Glenn. OOI Education and public engagement implementing organization/ OOI EPE Operations and Maintenance. COL $2,857,500


Grace Saba. Physiological ecology and habitat suitability combining experiments and surveys to inform stock. WHOI $37,683

Rutgers Honored By Al Giddings Generous Gift. Rich Lutz secured for Rutgers this past summer a major donation from Al Giddings of his $10 million video library which is arguably the finest collection of underwater footage in the world. The photographic and film footage will be managed jointly between Marine Sciences and Rutgers Library services. This is an extreme honor. Al Giddings has been an innovator and leader. He has lead the world in the design of innovative camera, lighting and optical systems in film and video formats, from IMAX to high definition. Giddings is known for his underwater directing and shooting of such highly-acclaimed films as The Deep, the James Bond classics For Your Eyes Only & Never Say Never Again, and The Abyss, 20th Century Fox’s blockbuster. Giddings served as co-producer/director of underwater photography on Jim Cameron’s 1997 Oscar-winning spectacular, Titanic. His IMAX production, Whales, is garnering national attention and setting attendance records. Giddings’ work in television has earned him several Emmys, including work on ANDREA DORIA; the 1996 co-production of Galapagos: Beyond Darwin, for the Discovery Channel; and Blue Whale: Largest Animal On Earth for the American Broadcasting Company’s World of Discovery. Three television specials, Blue Whale, Shark Chronicles and Mysteries Of The Sea, each earned Emmy Awards. Numerous music videos and television commercials have also won Emmy Awards; gold medals at the New York Film Festival; the American Film Institute’s Best Video of the Year, and a Grierson Award. A deep heart felt thank you for Al Giddings’s generosity and trust.
CONGRATULATIONS TO AN AMAZING SET OF NEW GRADUATES FROM THE MARINE SCIENCES IN 2014.
Arguably the most important commodity of our program is the graduate students. LET'S CELEBRATE OUR GRADUATES WHO INCLUDE:

Nicole Waite completes her Masters thesis. Successful Master’s thesis defense on the “The Role of Sedimentary Sulfide in Seagrass Decline in Barnegat Bay-Little Egg Harbor, NJ.” Upon graduation she joined the Antarctic field efforts and is currently the Rutgers team leader at Palmer Station.

Kevin Crum successfully completed his Masters thesis. His work focused on the development of ecological models and understanding the way that marine organisms interact with their environment.

Travis Miles successfully finished his PhD thesis. His thesis “Surface and water-column response to extreme storms in the coastal ocean: observations on the Mid-Atlantic Bight” focused on how storms drive sediment resuspension and transport on continental shelves.

Congratulations to Mansha Seth-Pasricha who successfully defended her Ph.D. thesis. Her work focused on a detailed biochemical and physiological characterization of caspase activity in Haloarchaea.

Also we salute the graduate students who successfully completed their dissertation proposal defenses. We look forward to the great research that will come from their efforts. A toast to Ana Filipa Carvalho, Kaycee Coleman, Nicole Couto, and Christian Laber.

Please welcome Timonthy Shaw to our academic family. Hello everyone, I moved to work in the sea-level research lab with Professor Horton and his team this summer following my PhD at the University of Liverpool, UK, reconstructing sea-level in the Adriatic Sea. My new position follows a similar path where we are currently
working towards producing high resolution long-term sea-level records from sites in the Chesapeake Bay region using microfossils contained within salt-marsh sediment cores. The primary goal of this research is to assess the timing of modern era sea-level rise, validating the reconstructions against local tide-gauge stations, but also to extend the records as far back into the Holocene as the sediments allow.

A vibrantly entertaining book about the microbes that support our very existence, Life’s Engines will inspire wonder about these elegantly complex nanomachines that have driven life since its origin. It also issues a timely warning about the dangers of tinkering with that machinery to make it more “efficient” at meeting the ever-growing demands of humans in the coming century.

**Congratulations to Paul Falkowski’s completion of his newest book.** For almost four billion years, microbes had the primordial oceans all to themselves. The stewards of earth, these organisms transformed the chemistry of our planet to make it habitable for plants, animals, and us. Life’s Engines takes readers deep into the microscopic world to explore how these marvelous creatures made life on Earth possible—and how human life today would cease to exist without them.

Paul Falkowski looks “under the hood” of microbes to find the engines of life, the actual working parts that do the biochemical heavy lifting for every living organism on Earth. With insight and humor, he explains how these miniature engines are built—and how they have been appropriated by and assembled like Lego sets within every creature that walks, swims, or flies. Falkowski shows how evolution works to maintain this core machinery of life, and how we and other animals are veritable conglomerations of microbes.

**The 2014 international gliderpalooza effort completed.** In 2013 Rutgers began a grass roots effort to collaboratively leverage the growing international glider community through coordinated field efforts termed “gliderpalooza”. In 2014 the gliderpalooza consisted of 18 partners from academic institutions and federal agencies flying over 36 glider missions spanning from the Gulf of Mexico to Bermuda to St. Johns Canada.
GET YOUR RU OCEAN SWAG!!!!

Rutgers Oceanography tea-shirts have arrived for the winter. Proudly wear the Rutgers Oceanography tea-shirts with funds being raised to host science socials for the undergraduate and graduate students. Tea-shirts go for $15 and will make you look athletic, smart, and dashing. Such a great deal for a great cause. Contact Sarah Kasule if interested (kasule@marine.rutgers.edu). To see the quality people your contribution would support check out our featured graduate students at http://marine.rutgers.edu/main/Featured-Student/.

Please help us enable Rutgers oceanography to support the next generation!

Rutgers oceanography needs your support to meet the environmental and educational challenges facing the world today. Your support is critical to enabling high risk and high reward research, developing students to be the leaders of tomorrow and bringing the public with our scientists into the ocean. Your private gifts will create new laboratories, student fellowships, endowments and feed ambitious new programs. Come join us!

New Publications


