



INSTITUTE FOR SENSING AND EMBEDDED NETWORK SYSTEMS ENGINEERING

Division of Research
Florida Atlantic University

I-SENSE Seminar Series

Democratizing Access to Ocean Observing Technology

Abstract

Technological advancements have exploded in the last decade and the costs of emerging electronic components have decreased. Many of these advancements have not yet been applied to the oceans, providing a timely opportunity to match highest priority marine science research questions with enabling techniques over unprecedented geochemically and biologically relevant spatial and temporal scales (thus empowering observationalists, modelers, and directly engaging public interest in oceanographic processes). We have applied emergent technologies to marine biogeochemical processes on scales capable of exciting researchers and local community groups by targeting development of an affordable coastal observatory platform and affordable new sensors.

Bio

Brian Glazer is a professor in the Department of Oceanography, in the School of Ocean and Earth Science and Technology, at the University of Hawai'i at Mānoa. He serves on the National Science Foundation's Ocean Observing Initiative Facilities Board as well as the Deep Submergence Science Steering Committee. Glazer has 21 years of experience in ocean observing science, both at deep-sea volcanoes and the coastal zone. He earned a B.S. degree in Biology from the Pennsylvania State University in 1997, M.S. in Marine Sciences from the University of Delaware in 1999, and Ph.D. in Marine Sciences in 2004, also at UD. In 2004, Brian was awarded a postdoctoral fellowship with the NASA Astrobiology Institute, and in 2006 he was appointed as professor of oceanography. Glazer's research involves autonomous samplers, chemical analyzers, and assets from the National Deep Submergence Facility, including the human-occupied submersible Alvin, ROV Jason-II, and AUV Sentry. Glazer has sailed on two dozen research expeditions, spending between 1-3 months at sea per year over the past 20 years. Currently, Glazer's lab focuses on the interface between chemistry and biology within coastal Hawaii, especially traditional fishponds. He has spent the past three years developing affordable sensors, instruments, and a web-based data platform to enable hyper-local ocean observations. Glazer's funding sources include NSF, NOAA, NASA, Gordon and Betty Moore Foundation, Schmidt Ocean Institute, Schmidt Marine Technology Partners, and the Posner Foundation.



Brian Glazer, Ph.D.

Professor, Department of
Oceanography, The School of
Ocean & Earth Science and
Technology, University of Hawaii

Thurs., Sept. 20

11 a.m. – 12 p.m.

**FAU Engineering East
777 Glades Rd, EE 405
Boca Raton, FL**

NOTICE: Reasonable accommodations should be requested from I-SENSE at mrobin72@fau.edu or 561.297.4889 at least five (5) business days prior to the event.