Dept. of Ocean Engineering and Marine Sciences

Rich Aronson Head of Department



Who We Are 2020

- 102 Incoming Undergraduate Majors
 - 36 Marine Biology (35%)
 - 24 Ocean Engineering (24%)
 - 12 Meteorology (12%)
 - 8 Environmental Science (8%)
 - 8 Oceanography (8%)
 - 7 General Biology (7%)
 - 7 Sustainability, Marine Cons., Fish/Aqua (7%)
 - All-years total: 332 majors, 46 minors
- ~71 Graduate Students

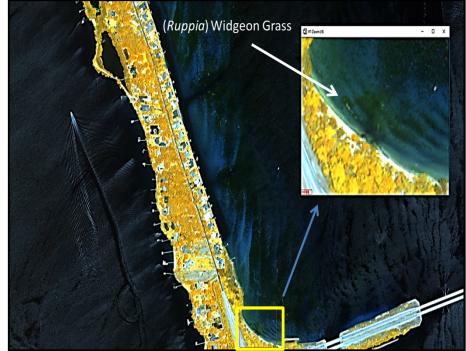


Charles R. Bostater, Jr. Associate Professor

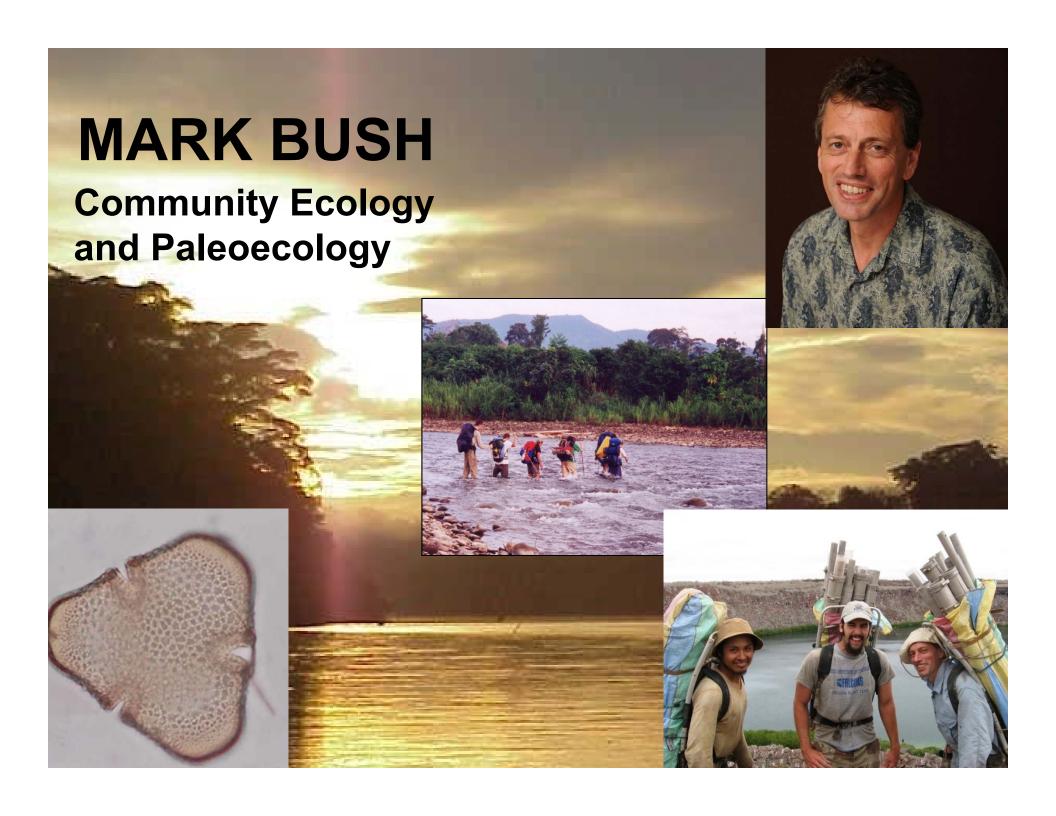
Teaching: Physical Oceanography & Environmental Sciences, Earth Remote Sensing **Research:** Satellite & Airborne Remote Sensing, Marine & Environmental Optics, In-Situ Sensing Systems, Boundary Layer Research (surface water gravity waves, water-sediment interfaces, Synthetic Hyperspectral Simulation

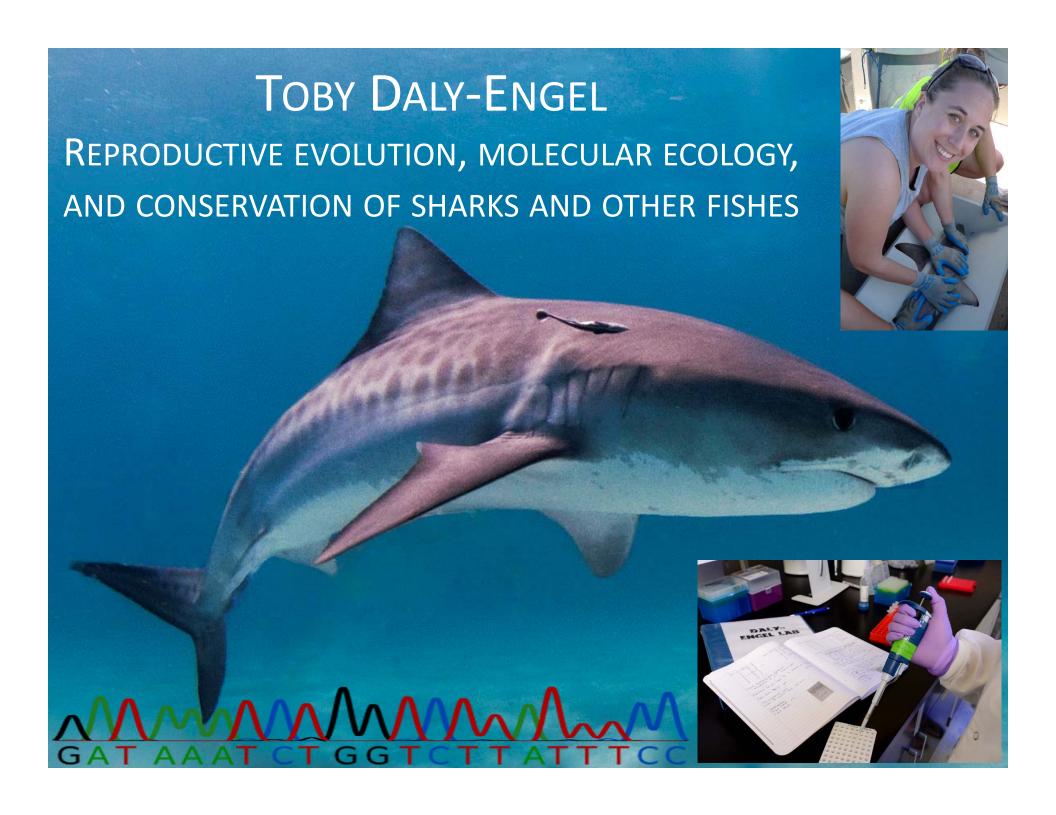
















Kelli Hunsucker, Assistant Professor of Oceanography





Courses

Introduction to Oceanography
Biological Oceanography
Ocean Biology for Engineers





Research Interests

Biofouling

Dynamics of marine biofilms

Benthic ecology

Coastal water quality

Eco-engineering

Marine materials

Manmade impacts on ecosystems

Marine outreach & education

Kevin B. Johnson Biological Oceanography and Environmental Science

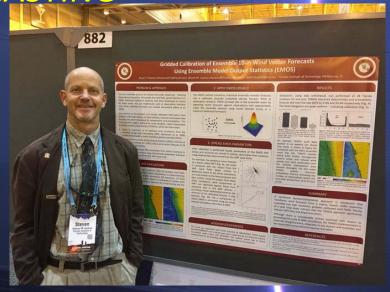
Plankton Ecology
Harmful Algal Blooms
Invasive Species
Benthic Restoration
Seagrass Ecology
Larval Recruitment





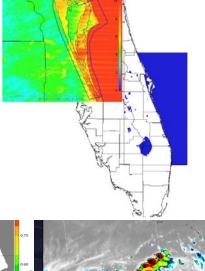
Steven Lazarus GIGANTIC JETS, WIND AND WATER, COASTAL/TROPICAL & SEVERE WEATHER, ENSEMBLE FORECASTING 882







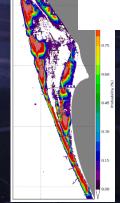


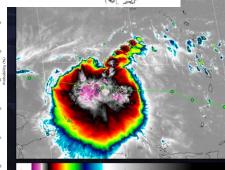












Ken Lindeman

Coastal Climate Adaptation

Campus & Region Sustainability



City of Satellite Beach Sustainability Action Plan 2017



Fishery Connectivity & Conservation

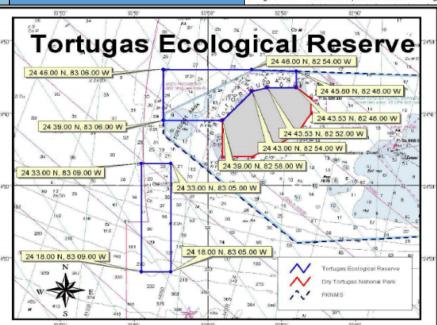
Implementing "Adaptation Action Area" Policies in Florida

A Supplemental Project of Special Merit to the Statewide Community Resiliency Initiative

The 2011 Florida Legislature passed the Community Planning Act (CPA) making significant changes to the state's growth management laws, including the addition of optional adaptation planning for coastal hazards and the potential impacts of sea level rise. The Adaptation Action Area, as defined in the CPA, is an optional comprehensive plan designation for areas that experience coastal flooding and that are vulnerable to the







onsider policies within the coastal management element tal flooding. Criteria for the adaptation action area may; areas which have a hydrological connection to coasta surge (§163.3164(1) and §163.3177(6)(g)(10), F.S.)

ng for infrastructure and adaptation planning. Loca

anic & Atmospheric Administration (NOAA) approved the ram's (FCMP) Section 309 Strategy, including an initiative a Department of Economic Opportunity (DEO) titled, for Sea Level Rise." This five-year initiative will examine rk and determine how to best integrate sea level rise ss as well as how to coordinate sea level rise adaptatior

GLENN MILLER Instructor

Modeling and Quantitative Biology Coastal Ecology

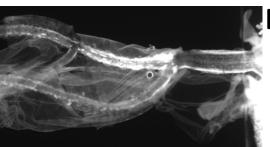




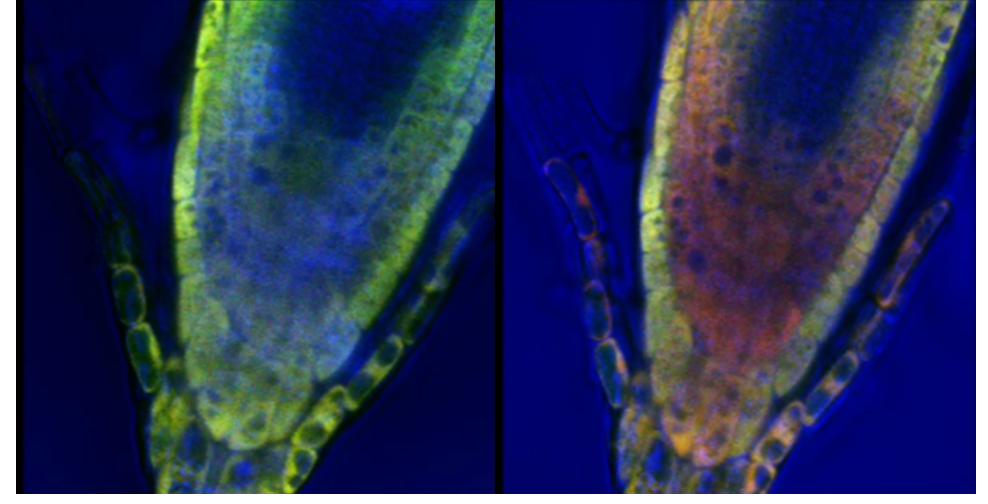
Andrew Palmer CHEMICAL ECOLOGY AND PLANT







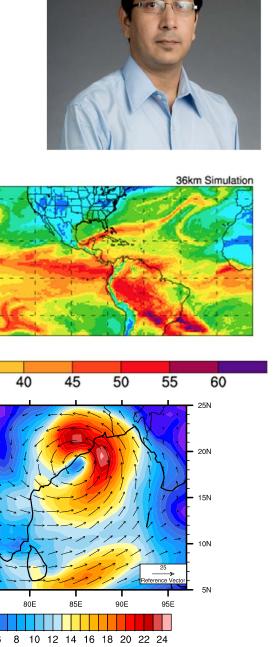


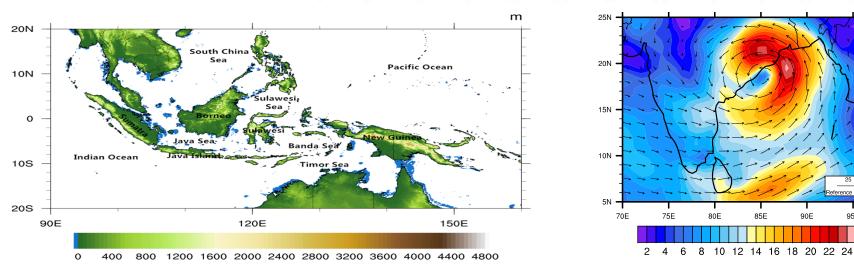


Pallav Ray: Meteorology
Tropical Climate Dynamics
Intraseasonal Oscillation
Regional Climate Modeling
Surface Energy Budgets

Lish on Clime 1 36km Domain







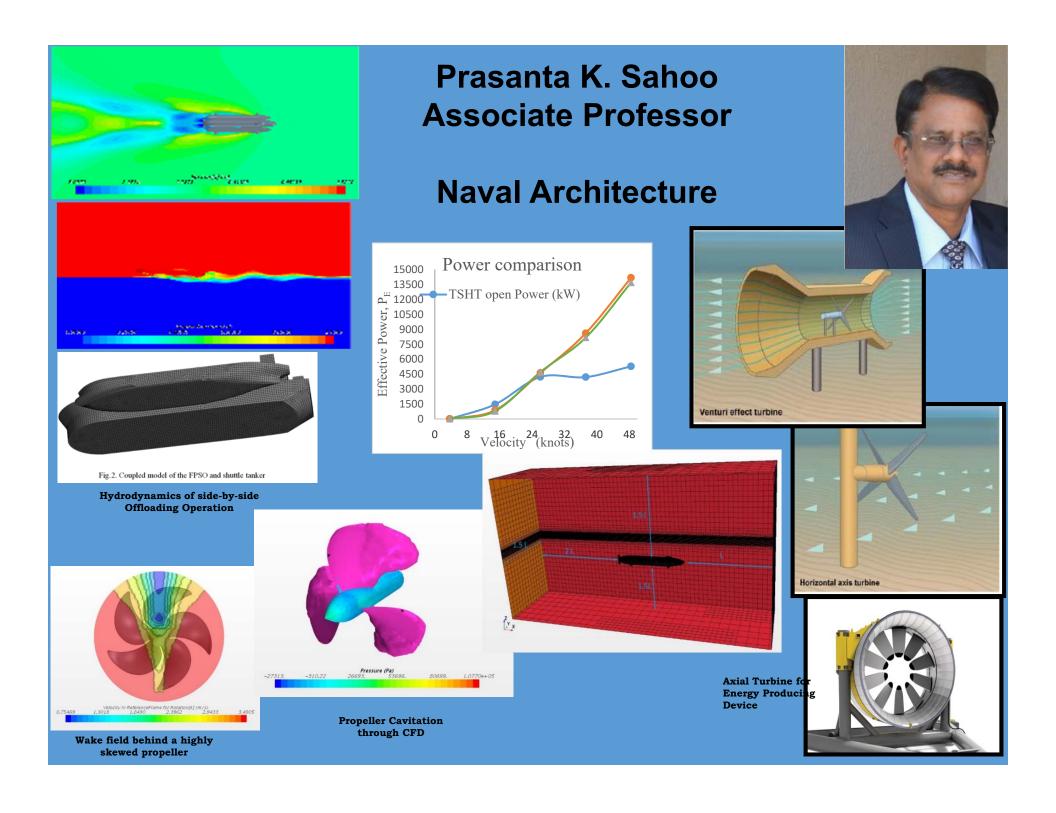




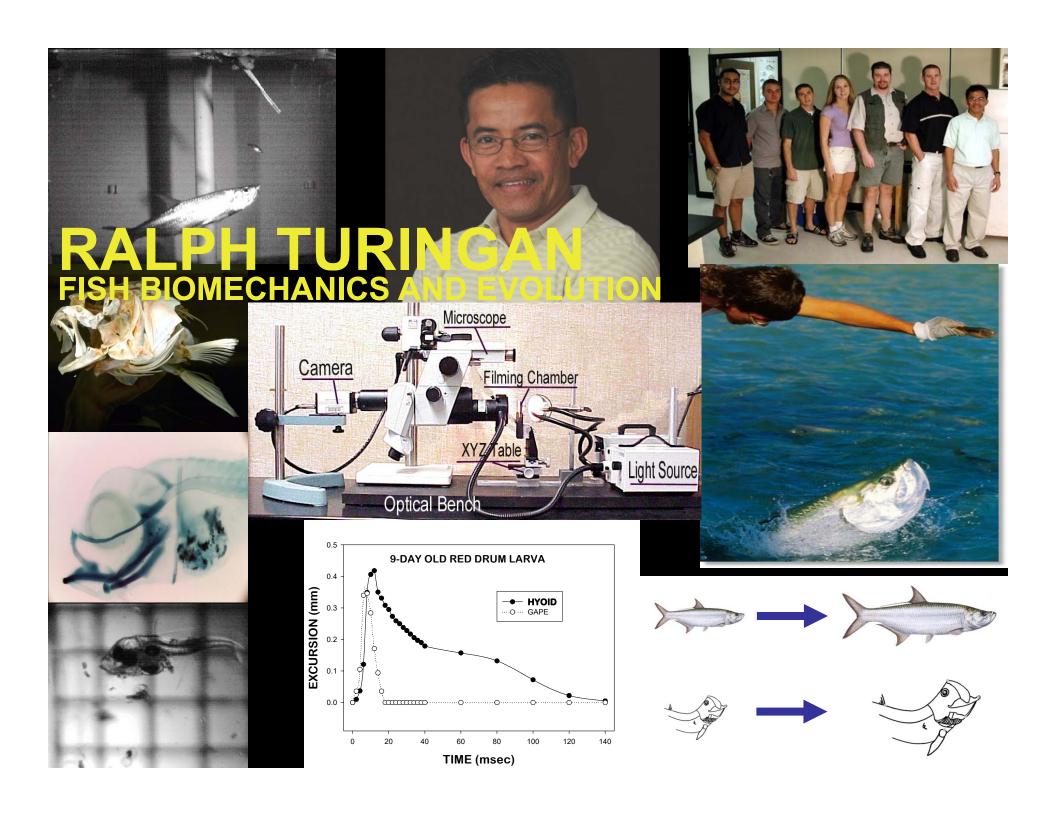


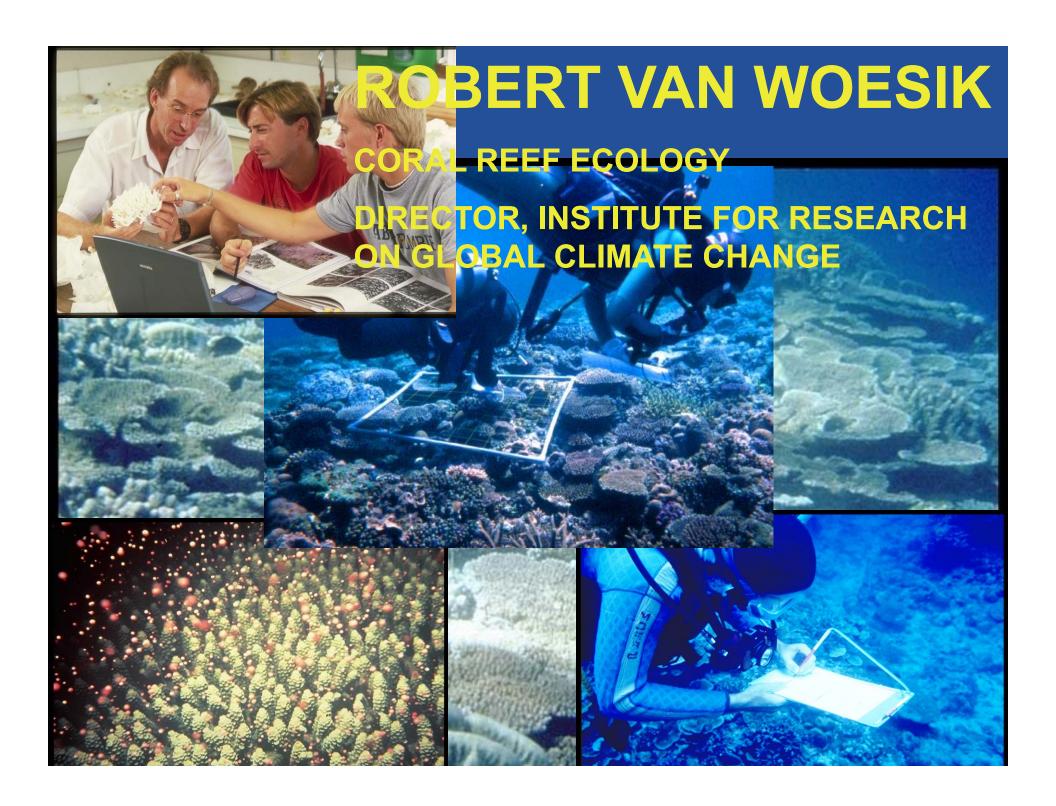










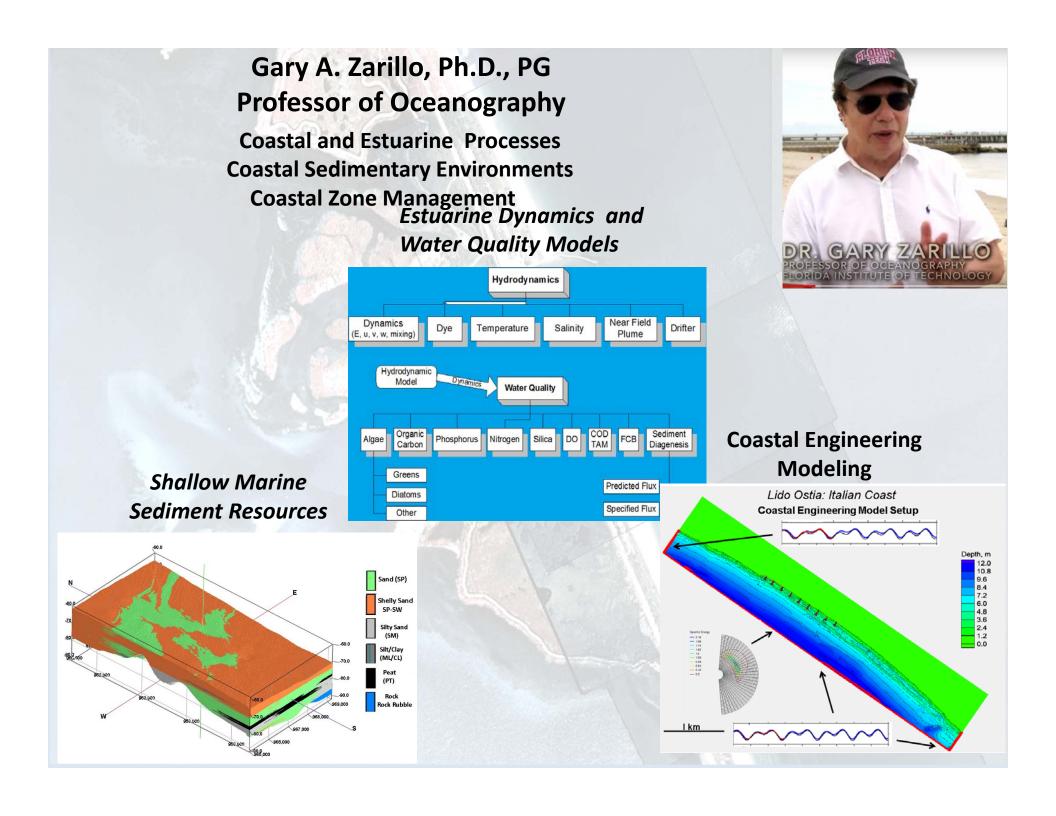


Robert J. Weaver Associate Professor of Ocean Engineering







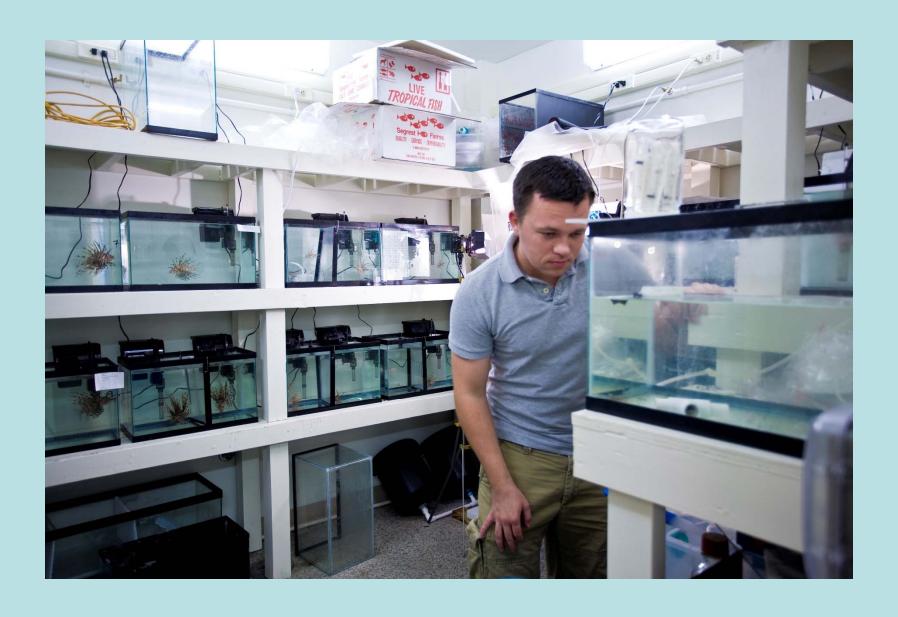


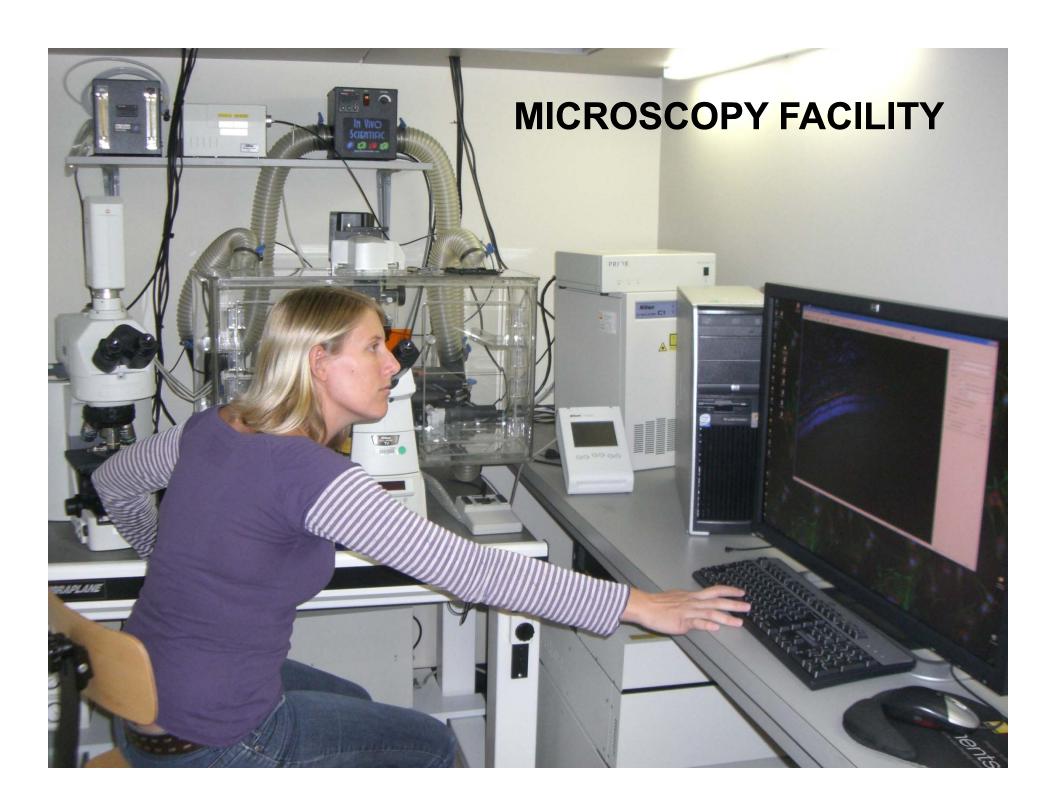


Evinrude Marine Operations Center



Florida Tech Aqualab







Industrial Internships

Ocean Engineering, Oceanography Environmental Science

- Faculty have excellent contacts with local industry.
- Students should chat with advisor.
- Receive course credits!

Industrial Internships

Ocean Engineering, Oceanography Environmental Science

Many students have internships and part-time jobs at local tech companies:

- Northrup Grumman (ME, AE, EE, OE)
- Harris Corp (ME, AE, EE, OE)
- Rockwell Collins (ME, AE, EE, OE)
- Larsen Motorsports (ME, OE)
- Structural Composites (OE)
 - President is OE Alum
- Matrix Composites (ME, OE)
 - President is OE Alum

YOUR RIGHTS

- A world-class education in a nurturing environment.
- Fair, unbiased treatment.
- Access to your faculty advisor and your committee.
- Instruction and facilities to complete your degree in a timely fashion.
- Career advice from your advisor and your graduate committee.

YOUR RESPONSIBILITIES

- Academic excellence.
- Management of your schedule.
- Accessing your faculty advisor.
- Timely and satisfactory completion of your assignments.
- Attendance at seminars: Wednesdays at 4:00 PM.
- Familiarity and compliance with the Graduate Handbook.

Filing Your Paperwork

- University forms are originated with the Student Coordinators' Office, under the direction of Mark Archambault, the Assistant Dean of CoES. Contact Jennifer Nessmith (<u>inessmith@fit.edu</u>) to file your forms.
- The exceptions are our departmental forms, which go to Dee Dee Van Horn (dvanhorn@fit.edu):
 - Formation of graduate committee
 - Forms 1–5 in the Graduate Handbook, which you will receive soon.



YOUR RESPONSIBILITIES

- Academic excellence.
- Management of your schedule.
- Accessing your faculty advisor.
- Timely and satisfactory completion of your assignments.
- Attendance at seminars: Wednesdays at 4:00 PM.
- Familiarity and compliance with the Graduate Handbook.
- Academic honesty and personal integrity.

PLAGIARISM

Copying the work of others and presenting it as one's own. Plagiarism includes *but is not limited to*:

- Copying text verbatim from other publications without quotation marks or attribution.
- Copying text from other publications and changing a few words without attribution
- Copying images without attribution.
- Repeating another person's concepts or ideas in a paper without proper attribution.
- Submitting papers purchased from websites or other sources.
- Copying anything from fellow students in written exams or papers (AKA cheating).

More information is available on the Florida Tech website: www.fit.edu/current/documents/plagiarism.pdf

The penalties for plagiarism are severe! When in doubt, consult your instructor!

SOME ADVICE

- Work hard.
- Manage your time wisely.
- Be proactive about your education.
- Sign up for the OEMS student listserv (see next slide).
- PLUS: Check your Florida Tech email account every day. We will not send email to another account.

Departmental Listservs

- Everyone should subscribe to the main listserv: oems@lists.fit.edu
- Subscribe to more specific listservs as appropriate.

Departmental Listervs

oems@lists.fit.edu

ALL OEMS programs (the list for department wide posts, e.g. picnic). To subscribe send email:

to: sympa@lists.fit.edu

subject: subscribe oems firstname lastname

marsci@lists.fit.edu

Marine and Conservation Bio, Ecology, Aquaculture. To subscribe send email to:

to: sympa@lists.fit.edu

subject: subscribe marsci firstname lastname

oes@lists.fit.edu

Meteorology, Oceanography, Enviro Sci, Ocean Engineering. To subscribe send email (no subject):

to: oes-subscribe@lists.fit.edu

fitscams@lists.fit.edu

Meteorology only. To subscribe send email (no subject):

to: fitscams-subscribe@lists.fit.edu

Lists owner: Dr. Lazarus

Social Media

https://www.facebook.com/pg/FLTechOEMS/about/

https://www.instagram.com/oems_floridatech/?hl=en

https://twitter.com/ocean_florida

Welcome to the Family!

Rich Aronson Head of Department

