#### **Dean's Faculty Meeting 5/7/13** providing science, technology and education to advance understanding of the ocean, Earth and planets...





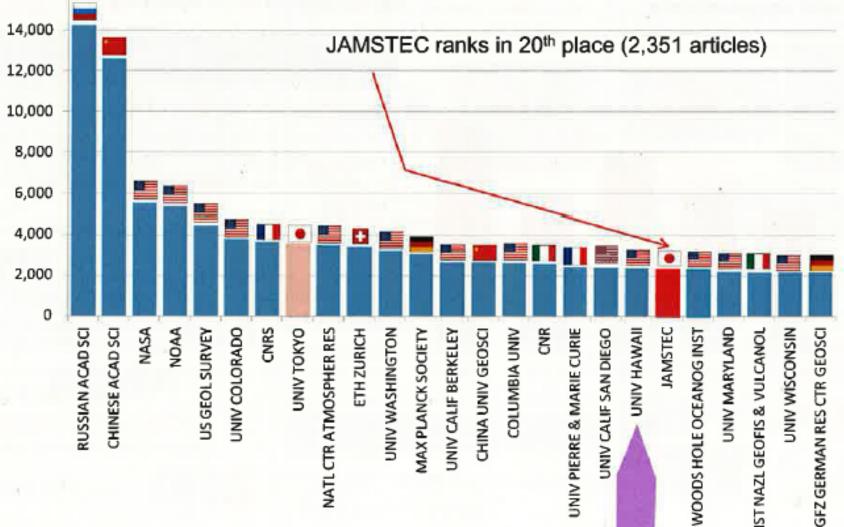
#### ... and

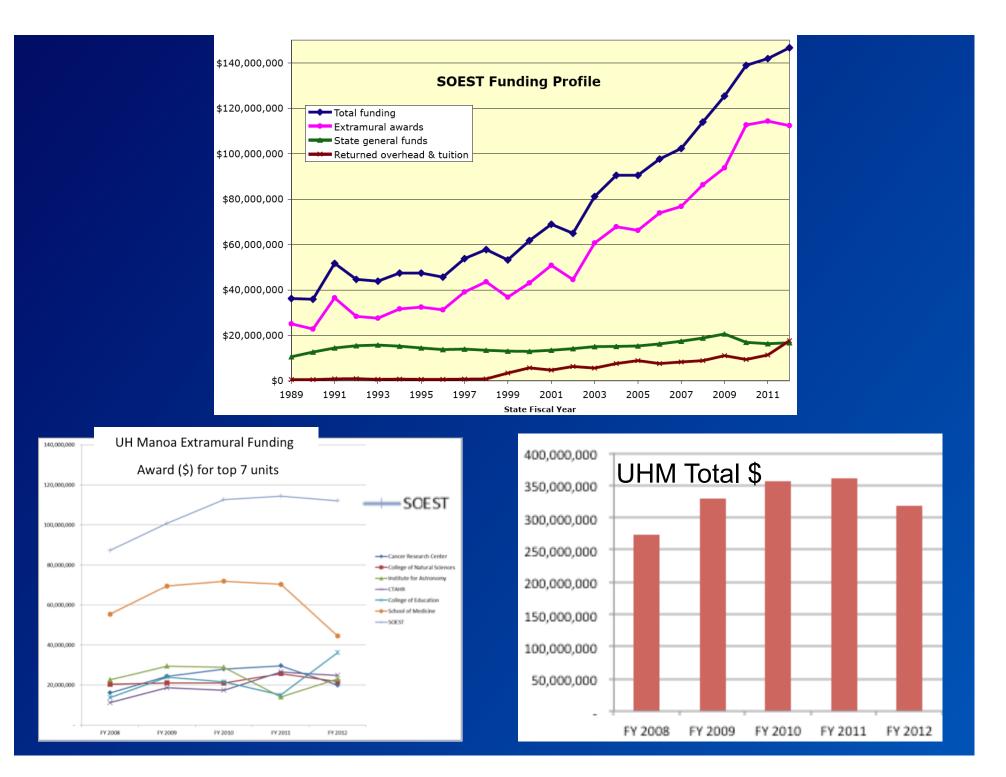
- solve energy and resource issues
- forecast our changing climate
- build and launch small satellites
- provide beach safety and vog alerts
- employ and train a high-tech workforce
- track sea level rise and coastal erosion
- preserve fisheries and coral reefs
- determine impacts of ocean acidification

#### The worlds TOP25 institutions in geoscience field

Number of papers published in geoscience field. Web of Science, Summary of 2006 to 2011

16,000





## **SOEST Faculty Recognition**

David Karl
National Academy of Sciences
Alexander Agassiz Medal



Paul Wessel
Fellow of the AGU

Jennifer Small Griswold NSF CAREER Award

Bin Wang
BoR Excellence in Research Award







# inaugural Denise B. Evans Fellowships in Oceanographic Research: Shimi Rii & Alice Colman



## 2013 Promotion & Tenure - positive TPRC recommendations

G&G: Julia Hammer 15 OCE: Glenn Carter 4 & T Brian Powell 4 & T Niklas Schneider 15 HNEI: Jian Yu R5 HIMB: Megan Donahue R4 & T Robert Toonen R5 Marc Lammers R4 HIGP: Kazu Nagashima S5 SeaGrant: Dolan Eversole A4 Elizabeth Maynard A4



## UH SEA GRANT LEADS THE UNIVERSITY OF HAWAI'I AT MANOA IN COASTAL SUSTAINABILITY Seven New Talented Faculty Join UH Sea Grant through a Strategic Hiring Initiative



Rosie Alegado

Assistant Professor, Department of Oceanography & Center for Microbial Oceanography: Research and Education



**Oceana Francis** 

Assistant Professor, Department of Civil and Environmental Engineering



Craig Nelson

Assistant Professor, Department of Oceanography & Center for Microbial Oceanography: Research and Education

Wendy Meguro School of Architecture



**Michael Roberts** 

Associate Professor, Department of Economics





Daniele Spirandelli

Assistant Professor, Coastal Policy and Community Development, Department of Urban Regional Planning



Mehana Vaughan

Assistant Professor, Sustainable Watershed and Coastal Management, Department of Natural Resources and Environmental Management

# Comings and Goings New tenure track faculty this year, and coming next year

Leon Roose (HNEI) Jennifer Small (MET) Michael Bell (MET) Anna Neuheimer (OCE)



New SOEST Young Investigators Hollie Putnam (HIMB) Brendan Hermalyn (HIGP)



Assistant Dean & Director, Strategic Initiatives & External Relations Chris Ostrander

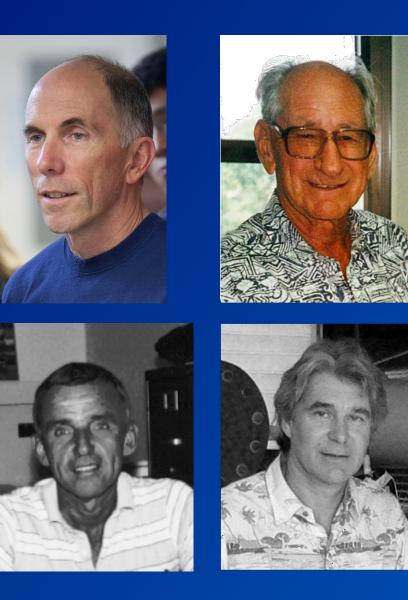


Rosie Alegado Craig Nelson Ed DeLong & offers made to 4 more Emeritus Roger Lukas (OC

Roger Lukas (OCE) Tony Clarke (OCE) Klaus Keil (HIGP)

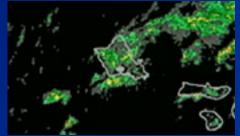
# In Memoriam

- John Mahoney
- Klaus Wyrtki
- David Meunow
- Marlin Atkinson

























## Hawaii Space Flight Lab ORS-4 launch: end Sept. 2013





#### Kokole Point Pad Work: 21 March 2013







# Humu'ula Groundwater Research Project





Drill two holes, 6000-6500 feet deep, to assess the groundwater resources available in the saddle region between Mauna Loa, Mauna Kea, and Hualalai.

Describe & archive the core for future scientific analyses.



# Battery Energy Storage for Generation Smoothing & Frequency Regulation Rick Rocheleau & Larry Cutshaw



 Testing and evaluation of emerging battery technologies (integrated testing from laboratory to field)

Analyze impacts of battery deployment on grid performance

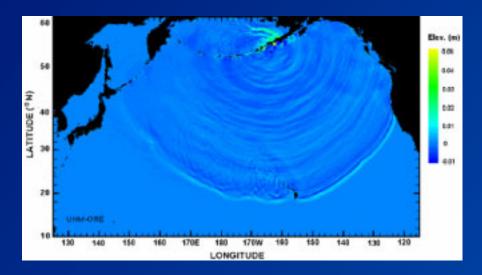
- Wind smoothing on HELCO grid
- Frequency regulation on HELCO grid
- Solar smoothing
- Voltage/VAR support on distribution line with high penetration PV
- Smart Grid applications

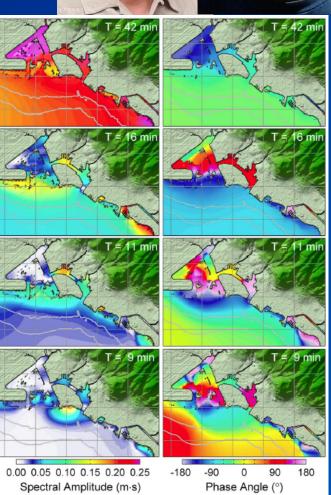
I MW / 250 kWh fast response Lithium ion Titanate battery





### Rhett Butler, Kwok Fai Chun, & Yoshiki Yamazaki, Tsunami studies



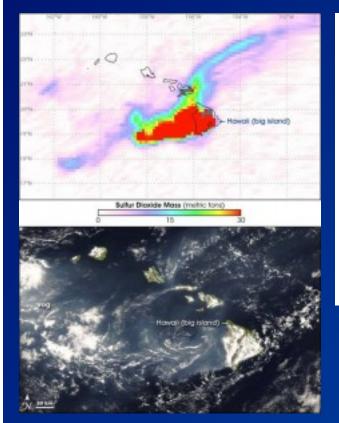


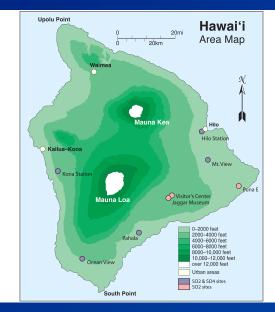


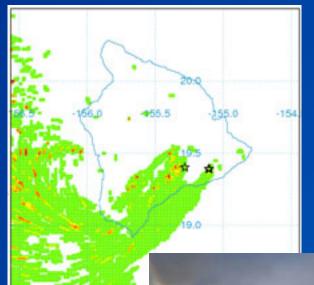




Steve Businger, Keith Horton, Tiziana Cherubini, VOG measurement and prediction





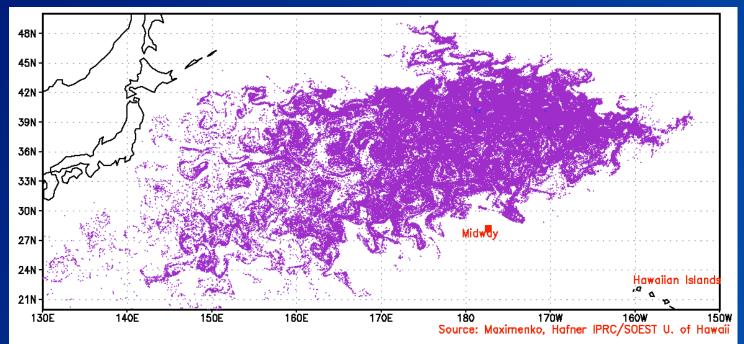








#### Nikolai Maximenko, Jan Hafner, & Gisela Speidel Marine Debris





Chip Fletcher, Matt Barbee, Coastal Inundation







## Greta Aeby Coral disease & resilience

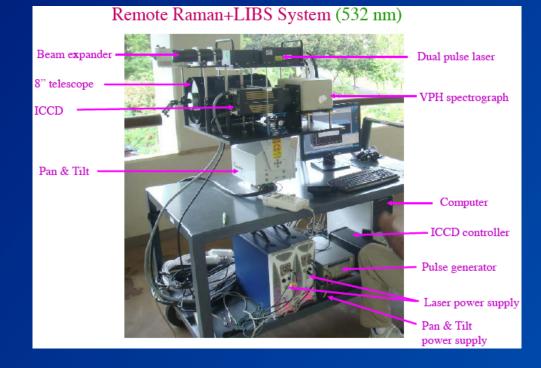






#### 2013 SOEST Dean's Award for Innovation

Anupam Misra Raman spectroscopy Laser-induced breakdown spectroscopy Fluorescence spectroscopy



UHMC move: Ships to pier 35 Boats to METC summer 2014



\$2.2 M 6km ROV



KOK

# Coconut Island renovations MSB HVAC

SOEST-CNS joint graduate degree program in Marine Biology



SOEST 25th Anniversary

Oceanography 50th Anniversary