

University-National Oceanographic Laboratory System ~UNOLS ~ Deep Submergence Science Committee Meeting

UNOLS DeSSC Meeting December 14, 2014 DeSSC New-Users Program Introductions – Part 2













AIDA FAROUGH

 Looking for a post doc, or a "research scientist" position and also interdisciplinary collaborations

• Finishing PhD in Geophysics at Virginia Tech in May 2015

Research experience and interests:

Serpentinization

Primary session chair of :

V52A: Friday 10:20am-12:20pm, Mascone South, 310

V53A: Friday 1:40pm-6:00pm, Mascone South, poster hall

- Hydrothermal water-rock interactions
- Fluid flow and heat transfer in seafloor hydrothermal systems





Taiwan Ocean Research Institute ROV Crew

Amos (Mu) – ROV Pilot in training Master degree of mechanical engineering Artificial sensor, Biomimetic AUV(Robot Fish). Mechatronic Engineer in TORI ROV Pilot Technician Grade II, AUV operation.

Daniel (Jang)– ROV Pilot in training Master degree of mechanical engineering Underwater Positioning, DeepSea Lander Design. Mechanical Engineer in TORI Ocean Bottom Seismometers, Underwater Camera, Real Time Towcam System.



How to

- Set up a ROV team?
- Accomplish a scientific ROV operation successfully?
 - Manage a research ROV cruise?

Karen Lloyd, Assist. Prof. at The University of Tennessee (the school with the orange football team)

- Major research objective: Observing uncultivated deep branches of microbes "in the wild"
- Methods: single cell genomes, meta-variousomes, qPCR, CARD-FISH, lab incubations
- What keeps me up at night: ANME archaea appear to be methanogens AND methanotrophs – can single organisms switch back and forth?



Lillian McCormick

Scripps Institution of Oceanography UCSD

- 2nd-year PhD student, Biological Oceanography
- NSF Graduate Research Fellow
- NOAA Hollings Scholar

Research Interests:

- Visual ecology of cephalopods
- Adaptions of eyes in deep-sea organisms
- Effects of oxygen, pH, temperature, pressure on visual systems
- Visual system development

Molly Redmond



Assistant Professor

- University of North Carolina Charlotte
- Department of Biological Sciences

Microbial Ecology and Biogeochemistry Hydrocarbon Oxidizing Bacteria

Seeking graduate students and collaborators

Michael Reuscher

- Postdoc at Harte Research Institute for Gulf of Mexico Studies (Texas A&M University - Corpus Christi)
- My research includes invertebrate (polychaete) taxonomy and systematics, biodiversity assessments, and benthic ecology
- I am currently looking for a permanent position

Dr. Estefanía Rodríguez Assistant Curator of Marine Invertabrates American Museum of Natural History

SACKLER INSTITUTE FOR COMPARATIVE GENOMICS

American Museum & Natural History

Evolution and Diversity of Deep-Sea and Polar Sea Anemones (Cnidaria, Actiniaria)

Stephanie M. Sharuga

Education:

B.Sc. Biology and Earth & Ocean Sciences (Environmental Emphasis), University of Victoria M.S. Environmental Management & Sustainability, Illinois Institute of Technology Ph.D. Oceanography & Coastal Sciences, Louisiana State University

Interests:

Benthic ecology, habitat mapping, deep-sea communities, environmental monitoring & management, deep submersible technologies, marine conservation & policy.

Background:

- AUV/ROV imagery & data analysis, habitat classification, anthropogenic vs. natural environmental influences on megafaunal community characteristics.
- Interested and actively involved in telepresence technology and marine/environmental education and outreach.
- Worked with AUV and/or ROV data from Folger Rocks & Barkley Canyon (NEPTUNE & ROPOS surveys), Northern Gulf of Mexico (Macondo well/Mississippi Canyon area), Blake Ridge & Cape Fear Diapirs (2012 Sentry AUV Telepresence Cruise).

Future:

Looking for a <u>postdoc</u> or other <u>full-time position</u>. Contact – ssharuga@att.net (224) 688-0519

Rishi Sugla

- PhD student at Scripps Institution of Oceanography
- Undergraduate: University of Maryland
- Paleoclimate Research Interests:
 - Origin and evolution of Earth and biosphere
 - Oxygenation of atmosphere and oceans in Phanerozoic
 - Changes in carbon cycle over deep time
 - Adaptations of deep-sea fauna to low O₂ and low temperatures

Lora Van Uffelen University of Hawaii at Manoa Assistant Researcher in Ocean & Resources Engineering Ioravu@hawaii.edu

Ph.D., Scripps Institution of Oceanography

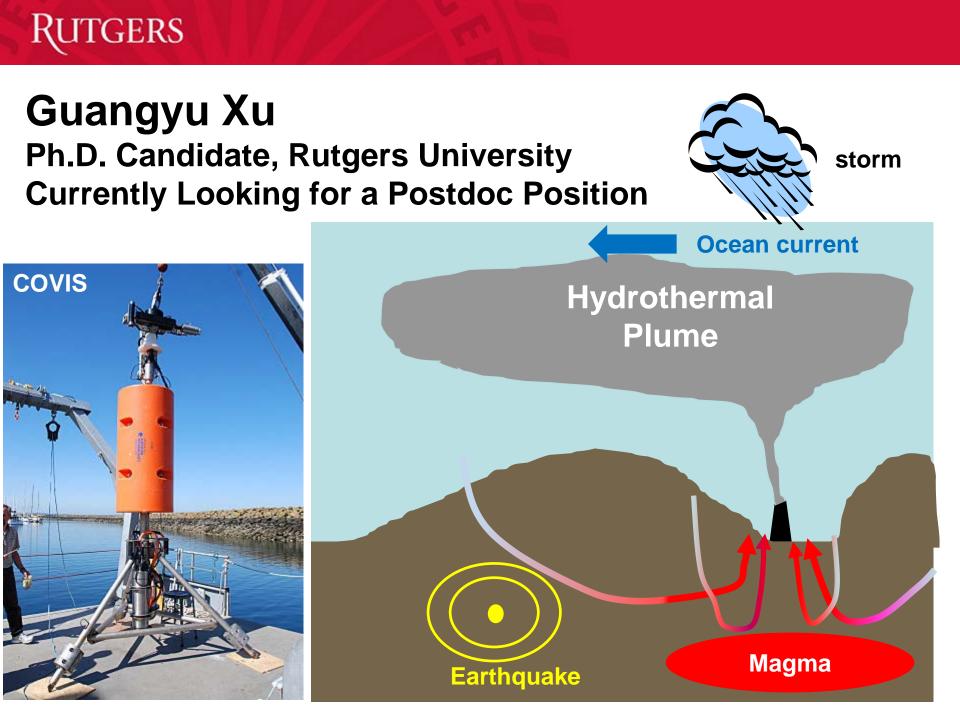
RESEARCH INTERESTS

- Ocean acoustics
 - Long-range acoustic propagation
 - Deep ocean moorings
- Ocean technology
 - Gliders/AUVs
 - Instrumentation
- Bioacoustics
 - Towed hydrophone array
 - Glider-based sensing

EXPERIENCE

- Johnson Sealink
- AUV Sentry
- Seaglider pilot
- 300+ days at sea from 20+ cruises
- Taught graduate course in observational methods





Georgianna Zelenak

First year PhD student Scripps Institution of Oceanography Marine EM Lab

- Measuring electric and magnetic fields to determine changes in conductivity in the subsurface
- Could submersibles be used to deploy our instruments?
 - Knowing precise orientation of electrode arms on the seafloor is crucial for processing

