

Eco-DAS XIII

October 10-15, 2018
Ecological Dissertations in the Aquatic Sciences

Eco-DAS XIII Symposium Agenda

Sunday, 14 October

Participants arrive in Honolulu throughout the day

Welcome Reception at New Otani Kaimana Beach Hotel
San Souci Banquet Room, 6 PM

Monday, 15 October

Bus departs hotel for East-West Center at 7:30 daily
Refreshments and getting seated

Opening remarks

Paul Kemp
Welcome to Hawai'i! Practical matters and other announcements.

Guest Speakers

0845 Dave Karl, University of Hawai'i
Station ALOHA: A gathering place for discovery, education and scientific collaboration

0945 David Garrison and Mike Sieracki, US National Science Foundation
NSF and interdisciplinary, collaborative research

Morning Refreshment Break

Take time to get acquainted! Refreshments await outside the Pacific Room.

Participant Presentations: Session 1

Session 1 will begin at 1030.

Participants will present a brief summary of their dissertation work, their ideas for a collaborative manuscript, and the expertise they can offer and are seeking in others. Each presentation will consist of 5 slides, and time will be left for questions.

Debbie Lichti, East Carolina University
Training Undergraduates: Are we preparing the next generation for the job market?

Alfredo Giron, UC San Diego
Nonlinear dynamics modelling for fisheries management

Jen Harfmann, UC Davis
Terrestrial organic carbon as a subsidy to the lower food web

Megan May, Massachusetts Institute of Technology
In the Age of the Anthropocene: Impact Indicators Across Multiple Scales

Erin Larson, Cornell University

When do species matter? Functional diversity in aquatic systems

Anastasia Quintana, Duke University

Collective action implications of marine reserve design by fishers

Lillian Aoki, University of Virginia

Restoration, resilience, and ecological functions in shallow coastal waters

Arial Shogren, University of Notre Dame

Why reinvent the wheel? The use of foundational techniques in aquatic ecology for the study of novel materials/issues

Kelly Hondula, University of Maryland

Mitigating methane emissions from inland water ecosystems

Lunch

Take time to get acquainted! The lunchroom is all the way down the stairs - follow the leader. The garden outside is a very pleasant place to chat and get some Hawai'i sunshine.

Workshop: A Crash Course in Team Science Best Practices

Led by Kait Farrell, Virginia Tech

The workshop will begin at 1330.

The goals of this interactive workshop are 1) to provide a brief overview of best practices in the Science of Team Science, and 2) to consider and discuss how Eco-DAS working groups can implement Team Science practices to maximize effectiveness, both while working together in person and while working remotely after the symposium.

Afternoon Refreshment Break

Refreshments await outside the Pacific Room.

Participant Presentations: Session 2

Session 2 will begin at 1530.

Whitney Beck, Colorado State University

Traits-Based Framework to Analyze Algal-Grazer Interactions Across Aquatic Ecosystems

Alli Cramer, Washington State University

Inferring Ecological Process via Spatiotemporal Patterns

Jenna Sullivan, Oregon State University

The role of disease in structuring ecological communities

Tanya Rogers, Northeastern University

Quantifying spatial variability in ecological dynamics

Brandon Sansom, University at Buffalo, SUNY

Biophysical interactions of ecosystem engineers: an interdisciplinary approach to inform the management of natural and constructed aquatic ecosystems

Jessica Lueders-Dumont, Princeton University

From tree holes to marine deserts: are there marine and freshwater analogs for investigating the connection between biogeochemical status and food chain length?

Lushani Nanayakkara, University of Regina

Bridging the science-policy divide

Dustin Kincaid, Michigan State University

Approaches to understanding the reactivity and biogeochemical importance of the sediment-water interface in shallow lentic freshwaters

Seth Thompson, University Minnesota - Twin Cities

Experienced Stoichiometric Resource Imbalance by Aquatic Bacteria

Bus departs East West Center at 1700

Homework: Identify 5 people you want to talk with during this conference

Tuesday, 16 October

Participant Presentations: Session 3

Session 3 will begin at 0830.

Keeley MacNeill, Cornell University

Drivers of nutrient and toxic element cycles in tropical and temperate streams

Liz Hetherington, UC San Diego

An ecosystem approach to managing top predators in a changing climate

Marian L Schmidt, University of Michigan

Searching for universal patterns of bacterial diversity across freshwater and marine systems

Tanner Williamson, Miami University

How does environmental variability modulate ecosystem structure and function in a eutrophic reservoir?

Kait Farrell, Virginia Tech

Linking land use and climate to C:N:P (or other element??) stoichiometry as a predictor of trophic state along the land-ocean aquatic continuum

Michaela Melo, Universidade Federal de São Carlos

Which taxonomical rank has ecological meaning in aquatic prokaryotes?

Sarah Hu, University of Southern California

The future of 'omics - an ecologists's perspective

Celia Symons, UC Santa Cruz

Trophic control in an era of global environmental change

Ashley Bulseco-McKim, Northeastern University

The sliding scale of recalcitrance: Factors that control organic matter lability along a land-sea continuum

Refreshment Break

Find those people you need to talk with!

Participant Presentations: Session 4

Session 4 will begin at 1030.

Mariana Costa, Federal University of Rio Grande do Norte,
Why is so hard to quantify mixotrophy and its importance to aquatic food webs

Simon Stewart, University of Waikato
Understanding the contribution of consumer nutrient recycling to nitrogen cycling in lakes

Deo Florence Onda, University of the Philippines
Microbes in the Changing Ocean

Jess Brandt, Duke University
Biovector transport revisited: The ecomorphological, biogeochemical, and ecosystem properties mediating contaminant transfer by aquatic organisms

Alex Hounshell, University of North Carolina
Explaining DOC dynamics from riverine-to-coastal ecosystems in a stormier world

JP Balmonte, Uppsala University
Priming Effects in Aquatic Systems (PEAS): Synthesizing evidence and identifying knowledge gaps

Brice Grunert, Michigan Technological University
Shining Light on Carbon and Nutrient Cycling

Rachel Smith, University of Georgia
Biotic resistance or assistance? Understanding context-dependency of species interactions

Jim Junker, Montana State University
Synthesis of temperature-nutrient interactions and organism growth

Lunch

Lunch is served, downstairs.

Participant Presentations: Session 5

Session 5 will begin at 1300.

Jake Zwart, USGS
WikiProject Limnology and Oceanography: Curating free information on aquatic science

Amber Rock, Miami University
Food chains in a changing world: exploring patterns in how shifting basal resource supply impacts growth and production across multiple trophic levels

Margaret Brisbin, Okinawa Institute of Science and Technology
Seeing is believing (and maybe quantifying): high-throughput imaging to complement high-throughput sequencing.

Sam Urmy, MBARI

Finding food in the patchy ocean: Remote sensing, movement, and the mean-field assumption

Workshop: Brainstorming!

Led by Krissy Remple and facilitated by:

Jessica Bullington

Rebecca Lensing

Anamica Bedi de Silva

Seth Travis

Amanda Ziegler

The workshop will begin at 1400.

Brainstorming instructions

Brainstorming breakout: work in small groups

Refreshment Break

(Relax, give your hardworking brain a few minutes off.)

Workshop: Brainstorming continues

Brainstorming breakout: continue in small groups

Reconvene to discuss and wrap up

Bus departs East West Center at 1700

Homework: No homework tonight! Dinner is on your own.

Wednesday, 17 October

Guest Speaker

0830 Chris Filstrup, Large lakes Observatory and Minnesota Sea Grant

Growing your network - What happens after Eco-DAS?

Working Groups - Form Up!

Defining the ideas

The objective for this morning is to identify which of the many fascinating manuscript ideas seem to be gathering momentum. Find your potential co-authors and meet in small groups. We have the Pacific Room and two nearby conference rooms, the break room and anywhere else you can sit or stand. Your goal is to come up with a draft title, a sentence to describe the manuscript's subject matter. Someone in the group, please write down names of people who expressed interest. When you have accomplished that much, add the title to the growing list in the Pacific room. We'll have a refreshment break at 10 and keep going. This is a good time to form or join different groups and pursue one of your other favorite ideas. Many people will have trouble picking just one or two!

Lunch break

Lunch is on your own! **Please be back at the East West Center by 1330.**

Someone will walk you over to the nearby food court, or you can check out the food truck(s) across the street.

Working Groups - continue

Defining more ideas

The objective for this afternoon session is to continue to identify manuscript ideas that are gathering momentum. Keep going! At 1430 we'll reconvene in the Pacific Room and take a look at all the titles. We will ask one or two people to volunteer as initial team leader for each title. The team leader will serve as the point of contact for other people interested in the topic.

Refreshment Break

After the break, we'll have a change of pace and hold a discussion panel on everyone's favorite topic: funding!

Panel: Current and future status of research funding

The panel will begin at 1330.

Panelists will introduce themselves and explain their role in the agency. This is an open Q&A session. Please think about all the questions you'd like to ask panelists, like:

How can I improve my chances of getting funded?

What will the funding environment be like for the foreseeable future?

How are postdoctoral research awards decided?

Do funding agencies work together?

What is the most rewarding part of your job?

I want my work to have societal relevance. I want to involve citizen scientists. Is that fundable?

Panelists

Dave Garrison, NSF Biological Oceanography

Mike Sieracki, NSF Biological Oceanography

Mary-Elena Carr, NSF Biological Oceanography

Penny Larin, NOAA/NMFS Cooperative Programs Specialist

Paulo Maurin, NOAA Coral Reef Conservation Program

Bus departs East West Center at 1700

Homework: Think about the ideas discussed today. Which are your TWO favorites? Dinner is on your own.

Thursday, 18 October

Guest Speaker

0830 Dennis Hwang, JD, Sea Grant Coastal Hazard Mitigation Specialist

Hazard Risk Reduction in Hawai'i

Assignment for the Morning

0915 Author teams meet

Which ideas are most interesting to the team? Take notes!

Realistically, you can lead one manuscript and participate in another. Work on the ideas that you really love, and don't overcommit.

We will continue the discussion over a working lunch at Tikis in Waikiki.

The bus will depart the East West Center at 1130.

Working Lunch in Waikiki

Your goals for this working lunch are to enjoy lunch and the beautiful view, while meeting with your co-authors and firming up your manuscript ideas. Before leaving the restaurant, please provide the following to Paul or Krissy:

Preliminary author list

Identify one or two volunteers as initial team leads

Working title

A summary of a few sentences

1400 Afternoon on your own

Continue working - at the beach?

Friday, 19 October

Editors Panel Discussion, 0830-0930

We are fortunate to have a panel of editors representing four different journals that publish in different styles. What would you like to know about publishing?

Open access. Open data. Peer review. Recognizing predatory journals. The cost of publishing. Writing styles. Editorial fellowships.

How does it all work?

Panelists:

Pat Soranno, Editor of L&O: Letters

Maggie Xenopoulos, Deputy Editor and Special Issues Editor of L&O

Adrienne Sponberg, Editor of L&O Bulletin

Chris Filstrup, Deputy Editor of L&O Bulletin

Paul Kemp, Editor of L&O: Methods

Tasks up to the afternoon break

Review of the manuscript summaries from yesterday's lunch

What would be a good publication outlet for each manuscript?

Work in author teams

Finalize AUTHORS and identify TEAM LEADERS.

Select a TITLE.

Prepare an OUTLINE.

Evaluate the ESTIMATED TIME to 1st DRAFT.

Prepare a 1-2 slide PRESENTATION for Saturday, commenting on:

Why and how your research interests are complementary.

Why does this manuscript need to be written?

What are your ideas for future collaboration?

Lunch break

Lunch is on your own! **Please be back at the East West Center by 1330.**

Afternoon Refreshment Break

After the break, we'll hold a Q&A panel about working with the media.

Panel: Working with the Media, 1530-1700

Learn how to survive being interviewed as a science expert! Our panelists represent different components of the chain of events that leads to a researcher being interviewed.

Panelists:

Marcie Grabowski, Outreach Specialist for the UH School of Ocean and Earth Science and Technology

Ethan Allen, host of the ThinkTech Hawaii show [Likable Science](#) (see the [Likable Science YouTube playlist](#))

Nathan Eagle, reporter for [Honolulu Civil Beat](#) (see [Nathan's report archive](#))

TGIF!

You have two options:

The first bus will return to New Otani Kaimana Beach Hotel at 5PM

For those who wish to join the popular TG's weekly beer and social event across the street at the Marine Sciences Building, the second bus will leave at 7:30 PM

Saturday, 20 October

0830 Collaboration themes and opportunities

A short recap of major themes that emerged during the week

Author teams

Short presentations of manuscript ideas, teams and titles

Wrapping up

After author teams have completed their presentations, we will discuss target dates and rules for manuscript submissions.

The symposium will then be adjourned.

1400 Pau hana!

Our work is done. We're off!

The bus will take us back to the hotel, where you are invited to relax at neighboring Kaimana Beach, popular with locals and UH students. If you need to rush to the airport, Uber is readily available, and drivers can pick you up at the hotel, or you can get a ride directly from the Conference Center, 1777 East-West Road.