

SOEST

Townhall Meeting & Discussion with the Dean
11/25/20

EARTH



understanding Earth systems

OCEAN



hydrosphere-biosphere-atmosphere interactions

ATMOSPHERE



tropical and global weather dynamics

SPACE



exploring Earth, Moon, Mars, and beyond

ENERGY



developing alternative energy resources

LIFE



ahupua'a

Building on 30+ years of excellence and innovation

CORONAVIRUS 2020

Physical health

Essential workers

Primary care givers

Facial masks/shields

On-line classes

Position sweeps

Spending constraints

Economic recession

Mental health

Work from home

Isolation

Social distancing

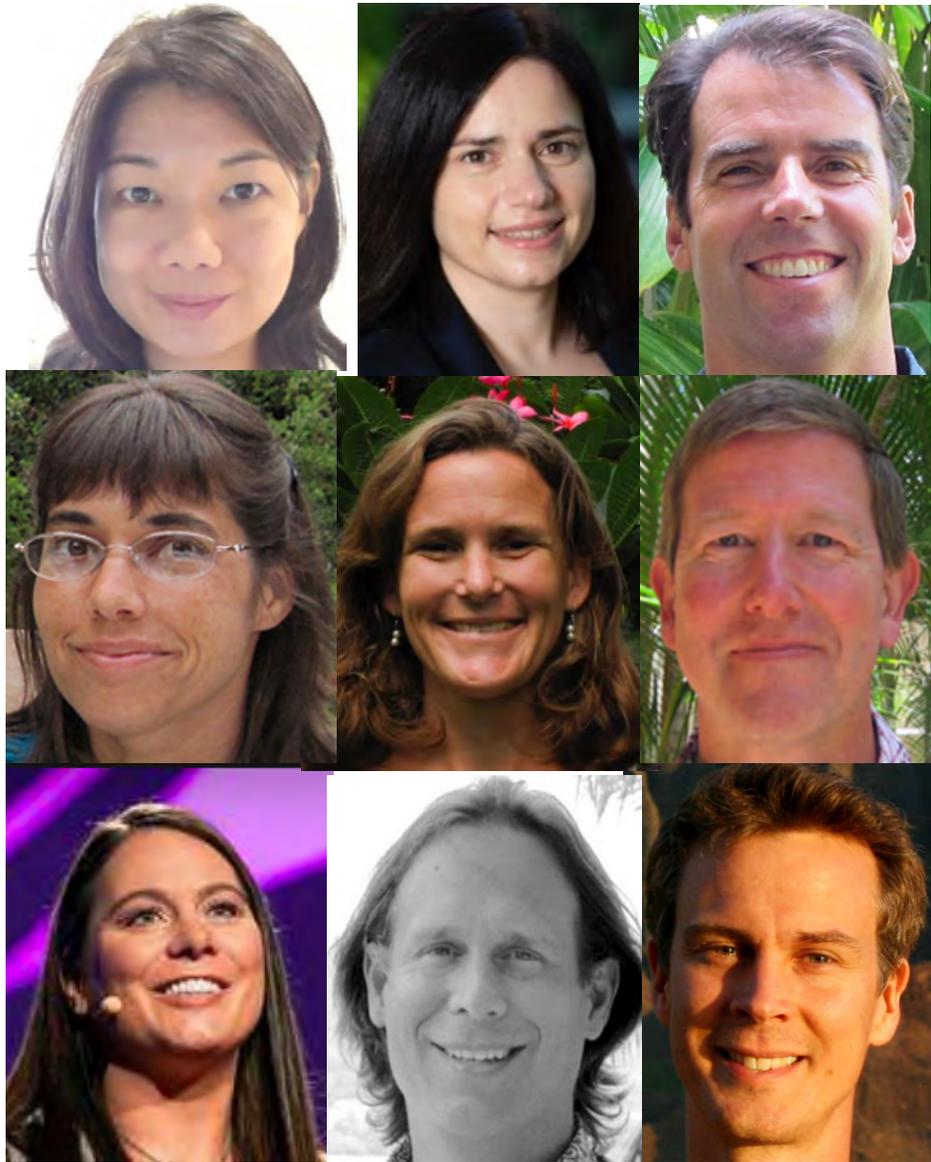
& Commencement

Hiring & SSA freeze

Travel freeze

Zoom meetings

Thankfully, only one hurricane threatened HI,
& new White House administration 2021



2020 Tenure & Promotion

T&P	R4	Joanne Yew
T&P	I4	Christina Karamperidou
P	A5	Brad Romine
P	S3	Rachel Lenz
P	I5	Erica Goetze
T	I5	Chris Sabine
T	I4	Angel White
P	R4	Eric Franklin
P	R4	Sam Wilson

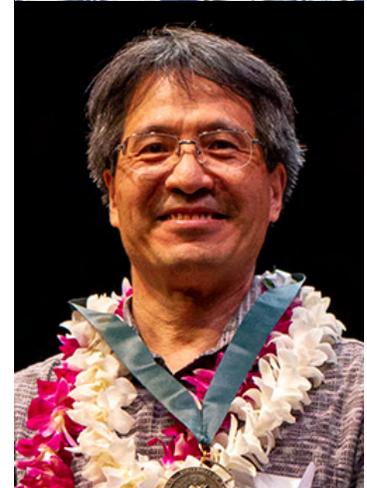
EGU 2020 **IAN McHARG MEDAL** to **Paul Wessel**

for outstanding contributions to developing open source software, including GMT, for the Earth and space sciences that have enable thousands of research projects and papers.



AMS 2021 **HENRY STOMMEL MEDAL** to **Bo Qiu**

for seminal contributions using observations, models, and theory to understand the dynamics of the North Pacific Ocean circulation and its role in the climate system.



2020 UH Mānoa Award winners

**Board of Regents' Medal
for Excellence in Teaching**

Alison Nugent



Grieg Steward



**Presidential Award
for Outstanding Service**

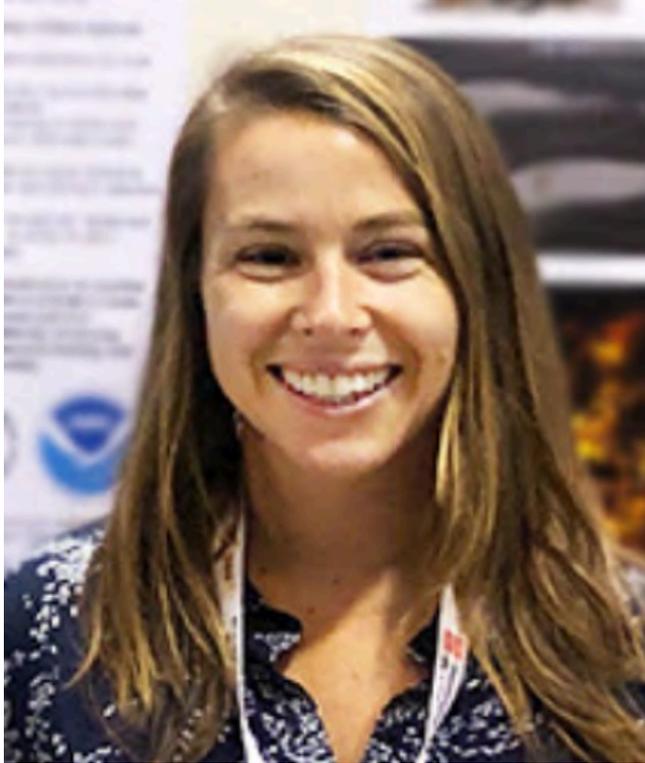
Jim Potemra



RCUH 2020 Awards

Support staff 2nd

Outstanding Team



Hope Ronco JIMAR
Monk Seal Rehab.

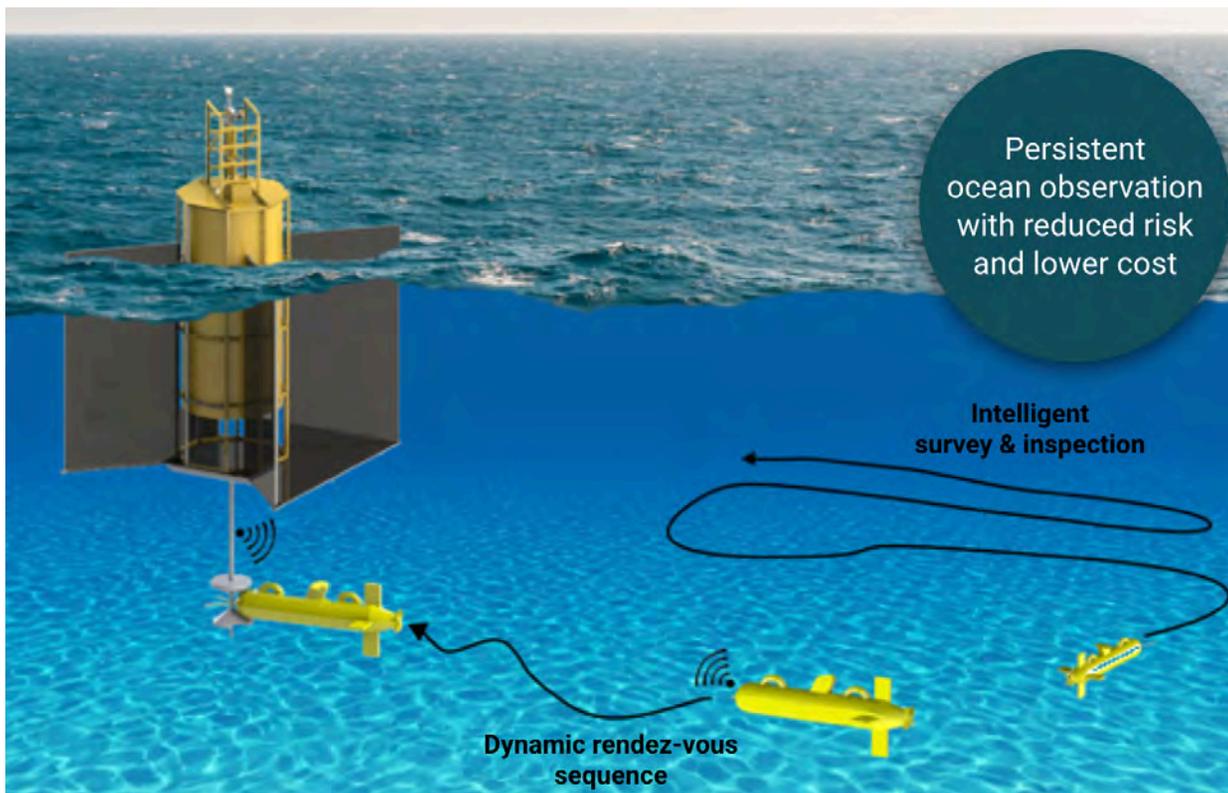


Tiziana Cherubini & Ryan Lyman
of the Maunakea Weather Center



Mariana Rocha de Souza
HIMB graduate student
awarded the 2020-21
American Association
of University Women
fellowship to empower
women in STEM

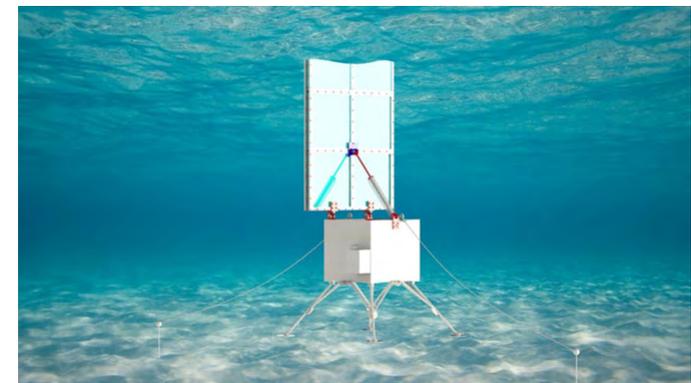
Winner of the U.S. Department of Energy 2020
Marine Energy Collegiate Competition:
**UH wave-powered docking station for
autonomous underwater vehicles**



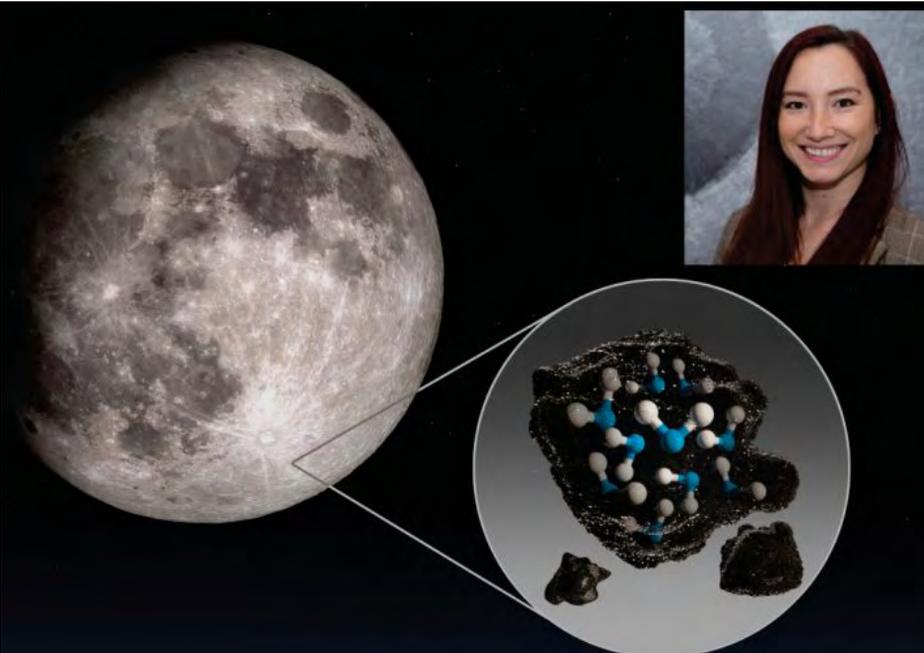
Team Halona Students:
Nicholas Ulm ORE
Stefan Mrozewski

Jonathan Wallen CoEng
Maddyson Jeske

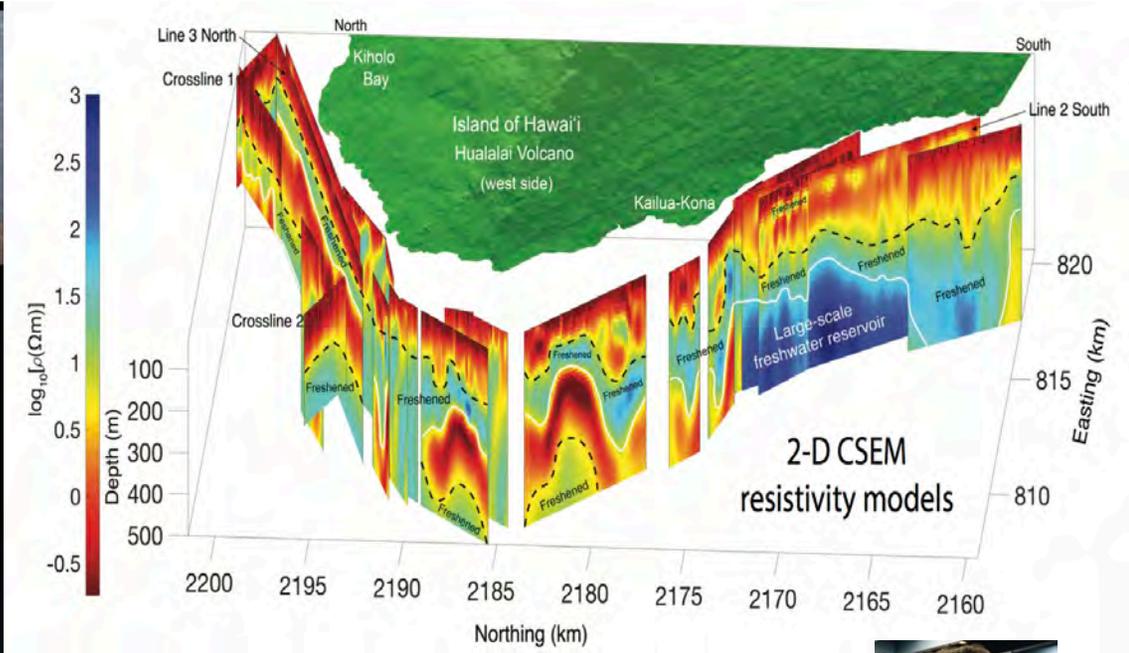
Mentor:
Patrick Cross HNEI



Nalu e wai nearshore desalination system:
oscillating wave surge pumps
seawater through a RO system



Water on the sunlit lunar surface
Casey Hannibal, Paul Lucey et al.,
Nature Astronomy

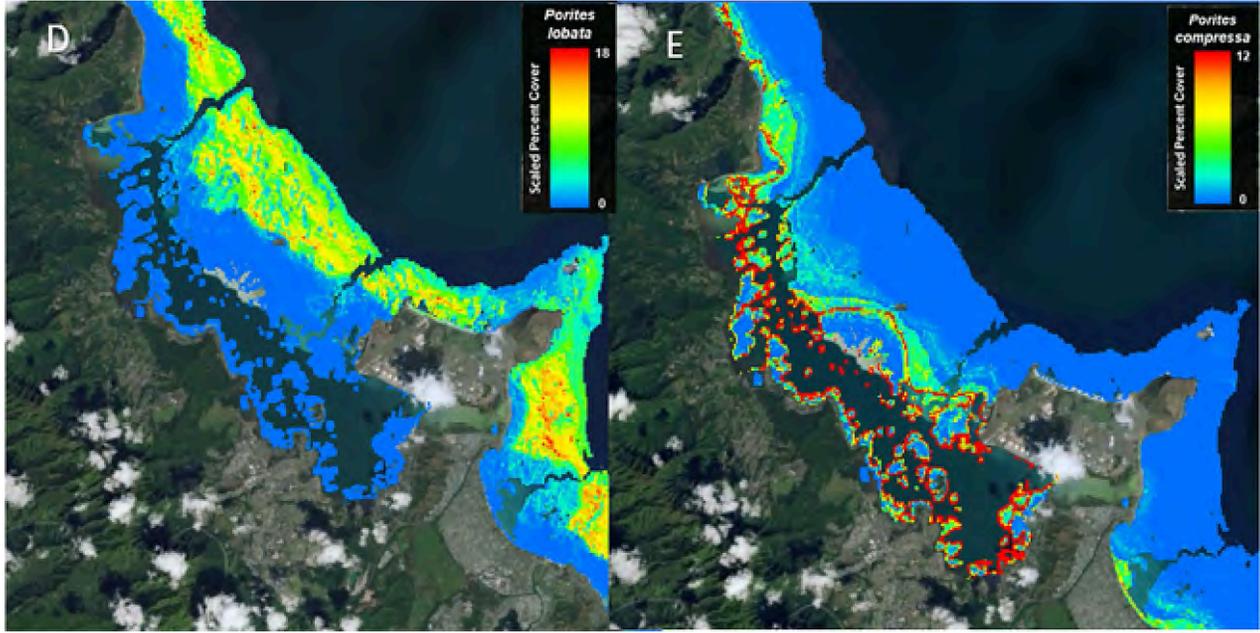


& in aquifers offshore Kona
Eric Attias et al.,
Science Advances



Metagenomic study of porites corals & their algal & bacterial symbionts reveals co-evolutionary adaptation & cryptic speciation (morphological diversity) as a function of depth & distance from shore. in *Nature Scientific Reports*

Zac Forsman, Ingrid Knapp, Rob Toonen



Zac H. Forsman

Mystery of glacial lake floods solved:



Iceland jokulhlaup triggered by perched water lens draining into basal lake

Eric Gaidos et al., *GRL*



1988 · SOEST

1997 · +IPRC

2006 · +C-MORE

2015 · +PBRC

2024 · + ?



SOEST Extramural Awards

2017	\$84.4 M
2018	\$93.0 M
2019	\$97.4 M
2020	\$0.102 B!

Aloha



Aloha



Renewed SOEST Leadership 2020



July **Chris Sabine** **Assoc. Dean Research**

September **Rob Wright** **Dir. HIGP**



November **Marla Berry** **Dir. PBRC**



Inputs
investments
since 1982

Location
mid-ocean
setting with
access to the
deep sea
& islands

People
faculty,
students and
post-docs
& staff

Facilities
laboratories and
research vessels
& observatories

Excellence in Earth, planetary & environmental Science & Technology

Outcomes
rewards
2020, and beyond

Scholarship
knowledge
gained and
disseminated

Reputation
recruitment and
retention of
world-class
scholars

**Extramural
Funding**
business and
economic
development
and more



UNIVERSITY
of HAWAII®
SYSTEM



From distant galaxies to the ocean depths ... and everywhere in between

SOEST, by the numbers:

~1,000 employees

117 TT faculty, 43.5 "I"

150 u/grad majors

200 grad students

3 Student/TT Faculty Ratio

8 Student/ I Faculty Ratio

400 journal publications

AY = FY 2019/2020

88 degrees awarded

(BS/A 32, MS 34, PhD 22)

10,346 SSH

\$ 23M General funds

\$ 5M Tuition funds

\$ 7M Research & Tr. RF

\$102M extramural