



Public University State Programs: OSU Ocean Vessels Research

HECC Funding and Achievement Subcommittee
February 10, 2016



Public University State Programs at OSU: Oceangoing Research

College of Earth, Ocean, and Atmospheric Sciences

HB 3451 - The **Oceangoing Research Vessel** Program is established at **Oregon State University** in order to assist in the **research and study of the waters of the Pacific Coast.**

Public University State Programs at OSU: Oceangoing Research

Research Vessel Council

Seven members appointed by the President of Oregon State University. Membership as of February 2016.

Dr. Jack Barth, Chair, OSU

Dr. Caren Braby, ODFW

Mr. Paul Klarin, DLCD

Mr. Ian Madin, Chief Scientist, DOGAMI

Mr. Brian Boling, DEQ

Ms. Kristen Wilkin, Clatsop Community College

Dr. Craig Young, University of Oregon

Mr. Stewart Lamerdin (Non-Voting), Marine Superintendent, OSU

Captain Todd Bridgeman (Non-voting), NOAA Marine Operations Center, Pacific

**Report on 2014-2015 activities
submitted to the Legislature in
November 2015**

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Three projects during 2014-2015

“Building Effective Marine Reserve Monitoring Through Research and Education” led by Dr. Angelicque White (OSU): experiential learning opportunities and collection of data in and around the Cape Perpetua Marine Reserve (April 8-12, 2014)



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“Geophysical and Geotechnical Investigations to Enable Embedment Anchor Installations in Oregon Wave Energy Study Areas” led by Dr. Chris Goldfinger (OSU): seafloor mapping, sub-bottom profiling and coring studies needed to design anchors for wave energy installations off Newport and Camp Rilea (March 10-13, 2015)



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“Undergraduate Student Learning Opportunities During a Multidisciplinary Study of the Umpqua Shelf Depocenter” led by Dr. Rob Wheatcroft (OSU): field-based experiential learning opportunities for undergraduate students and to gather samples and data on the ecology, biogeochemistry and geology of the Oregon margin (March 24-27, 2015)



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“Oceanography Boot Camp” April 8-12, 2014



“Oregon college students from three institutions — **Oregon State University, the University of Oregon and Clatsop Community College** — stuck it out for **four days at sea** on Oregon State’s research vessel Oceanus and learned what it’s like to run their own oceanographic research cruise.

They returned with **respect for the difficulties of doing science on a rolling ocean** and a better **understanding of what stirs beneath Oregon’s coastal waters.**”

(OSU’s Terra Magazine, August, 2014)

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Five projects during 2016-2017

“Tracking Ocean Acidification, Hypoxia, & Zooplankton Community Response through Experiential Research Education” led by Dr. Kim Bernard (OSU)

“Building the STEM Pipeline through Oceangoing Research and Near-Peer Mentoring” led by Ms. Tracy Crews (HMSC)

“Biodiversity, Zonation and Oceanography of Oregon’s Circalittoral Zone”
led by Dr. Craig Young (UO)

“An Environmental History of the Columbia River”
led by Dr. Maureen Walczak (OSU)

“Coastal Ocean Carbon Cycling during Wintertime Conditions”
led by Dr. Miguel Goñi (OSU)



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“One of my favorite things about the cruise was the opportunity to work on a **tight-knit team**, aligned towards the same goal,” wrote O’Neill. “Everyone had a job, but **we all relied on each other** for support and morale. Perhaps the most important thing we learned was **how to safely work aboard a pitching and rolling vessel on the high seas.**” (Molly O’Neill, University of Oregon)

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