

CIOSS Fellows' Areas of Expertise

Name Research Interests E-mail Phone Number Website

Physical Oceanography

Jack Barth	Frontal instability processes; coastal ocean dynamics; eastern boundary currents and their associated jets and eddies; flow-topography interactions.	barth@coas.oregonstate.edu	541-737-1607	http://www.coas.oregonstate.edu/faculty/barth.html
Dudley Chelton	Mesoscale oceanic eddies; large-scale, low-frequency variability of ocean circulation; coupled ocean-atmosphere variability; satellite microwave radar remote sensing; development of techniques for improving and quantifying signal-to-noise ratio in oceanographic measurements.	chelton@coas.oregonstate.edu	541-737-4017	http://www.coas.oregonstate.edu/faculty/chelton.html
Michael Kosro	Coastal oceanography; shelf/deep-sea exchange processes; eastern boundary currents; California and Peru/Chile Undercurrent; remote sensing; ocean acoustics; ocean circulation.	kosro@coas.oregonstate.edu	541-737-3079	http://www.coas.oregonstate.edu/faculty/kosro.html
Alexander Kurapov	Oceanic data assimilation, coastal ocean modeling, wind-driven circulation, internal tides, mixing on the shelf.	kurapov@coas.oregonstate.edu	541-737-2865	http://www.coas.oregonstate.edu/faculty/kurapov.html
Robert Miller	Theory of ocean modeling and forecasting; analysis of oceanic data using statistical and dynamic methods; prediction of transient currents in the mid-latitude ocean; interannual variation in the tropical ocean and its effect on climate.	miller@coas.oregonstate.edu	541-737-4555	http://www.coas.oregonstate.edu/faculty/miller.html
Roger Samelson	Fluid dynamics and thermodynamics of the ocean and atmosphere; coastal and arctic meteorology; coastal, mesoscale and large-scale ocean circulation; instabilities and nonlinear dynamics of geophysical fluids.	rsamelson@coas.oregonstate.edu	541-737-4752	http://www.coas.oregonstate.edu/faculty/samelson.html
Ted Strub	Statistical analysis of satellite data; coastal oceanography and eastern boundary currents; air-sea interaction; biophysical interactions in the coastal oceans.	tstrub@coas.oregonstate.edu	541-737-3015	http://www.coas.oregonstate.edu/faculty/strub.html

Marine Geology & Geophysics

Gary Egbert	Geophysical inverse methods and oceanographic data assimilation; multivariate signal processing; electromagnetic induction and conductivity of the solid Earth; Ocean tides; geomagnetism.	egbert@coas.oregonstate.edu	541-737-2947	http://www.coas.oregonstate.edu/faculty/egbert.html
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Biological Oceanography

Mark Abbott	Coupling of biological and physical processes in the upper ocean; remote sensing of ocean color and sea surface temperature; phytoplankton fluorescence; length and time scales of phytoplankton variability.	mark@coas.oregonstate.edu	541-737-5195	http://www.coas.oregonstate.edu/faculty/abbott.html
Hal Batchelder	Zooplankton ecology; population and community ecology, role of the physical environment in determining the distribution, abundance, and behavior of zooplankton, and the adaptations of organisms to their environment; trophodynamics and population ecology of marine copepods; model descriptions of population dynamics of marine organisms; individual-based modeling of bioenergetics and individual variability (feeding history, acclimation, energy reserves) in determining behavior, growth, development, and reproduction of crustacean zooplankton.	hbatchelder@coas.oregonstate.edu	541-737-4500	http://www.coas.oregonstate.edu/faculty/batchelder.html
Curt Davis	Optical remote sensing of the coastal ocean; deriving bottom type, bathymetry and water column properties and coastal dynamics from multispectral and hyperspectral remote sensing data.	cdavis@coas.oregonstate.edu	541-737-5707	http://www.coas.oregonstate.edu/faculty/davis.html
Ricardo Letelier	Scales of response of marine pelagic microorganisms, populations, and communities to environmental perturbations; the role of these responses on biogeochemical cycles, primary productivity, nitrogen fixation, photosynthesis, chlorophyll passive (solar-induced) fluorescence; and the physical and chemical factors controlling these processes.	letelier@coas.oregonstate.edu	541-737-3890	http://www.coas.oregonstate.edu/faculty/letelier.html
Yvette Spitz	Investigation of the main pathways in marine ecosystems; development of coupled physical-biological models; data assimilation.	yspitz@coas.oregonstate.edu	541-737-3227	http://www.coas.oregonstate.edu/faculty/spitz.html

Atmospheric Sciences

James Coakley	Radiative transfer; remote sensing of cloud and aerosol properties; earth's energy budget; radiative forcing and climate change.	coakley@coas.oregonstate.edu	541-737-5686	http://www.coas.oregonstate.edu/faculty/coakley.html
Eric Skyllingstad	Upper ocean turbulence; mesoscale coastal internal waves; ocean-atmosphere coupling.	skylling@coas.oregonstate.edu	541-737-5697	http://www.coas.oregonstate.edu/faculty/skyllingstad.html

Education & Outreach

Ryan Collay	K-12 education in science and math, teacher professional development, program design and evaluation in pre-college programming, minority student outreach.	ryan.collay@smile.oregonstate.edu	541-737-3553	http://smile.oregonstate.edu/
Eda Davis-Lowe	K-12 STEM science and math; teacher professional development; undergraduate student engagement in STEM outreach.	eda.davislowe@smile.oregonstate.edu	541-737-2388	http://smile.oregonstate.edu/

Emeritus Faculty

John Allen	The study of coastal shelf circulation processes through theoretical work, field experiments, data analysis and interpretation, and numerical modeling.	jallen@coas.oregonstate.edu	541-737-2928	http://www.coas.oregonstate.edu/index.cfm?fuseaction=content_search&searchtype=people&detail=1&id=455
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