Ocean Acidification PI Meeting

February 17-19, 2018 (Portland, OR)

Name	Affiliation & email	Research expertise	Moving forward, what types of OA research collaborations are you seeking?	What OA subtopics interest you most with regard to synthesis discussions?	OA-related OSM presentations
 **Andreas Andersson**	Scripps Institution of Oceanography aandersson@ucsd.edu	Coral reef biogeochemistry	Interdisciplinary collaborations aimed at addressing underlying mechanisms	1) Bridging experimental results to natural environments; 2) Scaling across different temporal and spatial scales; 3) Critical evaluation of what we think we know about OA; 4) What are outstanding questions and how do we best address them?	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/314710
 **Stephen Archer**	Bigelow Laboratory for Ocean Sciences sarcher@bigelow.org	OA influences on microbially-mediated trace gas exchange between ocean and atmosphere and related climate feedbacks.	Improved understanding of intracellular pH regulation in marine microbes and the cost/benefits that may incur when responding to ocean acidification and approaches to mechanistic modelling of the response to ocean acidification by planktonic systems.	1. Adaptive capacity to ocean acidification in microbial systems. 2. Geographic shifts in distribution versus acclimation/adaptation affecting planktonic community function.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/321473
 **Taylor Armstrong**	NOAA Ocean Acidification Program c.taylor.armstrong@noaa.gov	Program management	N/A	OA effects on coastal/estuarine ecosystems, utilization of data already collected, relationship between harmful algal blooms and OA	

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 **Krisa Arzayus**	NOAA/U.S. IOOS (formerly NCEI) krisa.arzayus@noaa.gov	Stewardship of ocean acidification and ocean carbon data at NCEI	I am interested in regional variations in OA and how we can best monitor them. I am also interested in data and metadata standards, to allow for synthesis of data from different sources.	I am interested in collaborations with other data providers and users of ocean acidification data.	
 **Keisha Bahr**	Hawaii Institute of Marine Biology kbahr@hawaii.edu	Ocean acidification and co-stressor impacts on organisms	Collaborations across organizational levels to understand how organisms react and adapt to natural and anthropogenic environmental stress.	Sensor and technical development and advancements in experimental design	
 **Leticia Barbero**	NOAA leticia.barbero@noaa.gov	Carbon chemistry (DIC, TA, pH, pCO2) in coastal regions and open ocean	Better integration between chemical and biological studies, impact of OA in combination with other stressors on ecosystems, incorporating sociologists and educators into our research programs and activities.	I'd like to see a discussion about data synthesis efforts (other than chemistry). As more people start to measure carbon parameters, perhaps a discussion on accuracy of different methods and proper reporting.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/323734 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/321515 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/323143

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 **Jim Barry**	MBARI barry@mbari.org	Effects of OA / hypoxia on organisms and species interactions	Would like to collaborate with those that could leverage work we are doing (physiological responses or some measure of individuals performance) on shallow and deep sea species faced with ocean change to understand molecular (genomic / proteomic) & population level responses	1) Effects of multiple potential stressors 2) Effects on species interactions 3) Population level responses	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/324736
 **Hannes Baumann**	University of Connecticut hannes.baumann@uconn.edu	CO_2 x O_2 x temperature effects on fish early life stages	I look forward to collaborators with molecular/genetic and modeling expertise	Meta-analytical approaches to species OA sensitivity, synthesis Sensor development and monitoring Progress in scaling up experimental to field approaches	• https://agu.confex.com/agu/os18/meetingapp.cgi/Session/37131 • https://agu.confex.com/agu/os18/meetingapp.cgi/Session/37137

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 **Nina Bednarsek**	SCCWRP ninab@sccwrp.org	Biological impacts on calcifiers due to OA and interactive stressors	Tight collaboration between the experimentalist, modellers and large scale observationalist	Synthesis related to thresholds/tipping points, prediction species distribution due to OA and interactive effects	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/315889 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/326949 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/305053 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/326431
 **Jennifer Bennett-Mintz**	NOAA OA Program jennifer.mintz@noaa.gov	I currently translate a variety of OA research to the public on web and social platforms and also educate students, early career scientist, and others about OA and effective communication practices.	The OAP would love to strengthen collaborative OA communication efforts by amplifying outreach and education efforts at other federal agencies and universities.	It is hard for me to say, as these synthesize a variety of subtopics in communication efforts. These discussions would likely inform future OAP communication efforts.	

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 **Heather Benway**	OCB/WHOI hbenway@whoi.edu				
 **Will Berelson**	University of Southern California berelson@usc.edu	Carbonate dissolution	None	Ocean chemistry synthesis, benthic processes	
 **Daniele Bianchi**	UCLA dbianchi@atmos.ucla.edu	Ocean ecosystem modeling	Collaborations between biologists studying individual-level physiological responses to acidification, and ecosystem modelers	Ocean ecosystem response to acidification: from physiological thresholds to ecological responses	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/322365

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 **Charles Boch**	Monterey Bay Aquarium Research Institute cboch@mbari.org	I work on combining field and laboratory experiments to understand the effects of multiple physical-chemical drivers on biological systems.	I am looking for collaborators who can work with my current collaborators and I from a -omics approach to get more insights into biological mechanisms under environmental variability.	I am interested mostly in how to keep improving our understanding of environmental variability and change and improving our mechanistic understanding of biological responses to those drivers.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/319427
 **Eugene F. Burger**	NOAA/OAR/PMEL, PI of the Science Data Integration Group eugene.burger@noaa.gov	Data management of marine biogeochemical data and IT subsystems in support of OA research	Collaboration with scientists on the data management needs and how the data management community can move ahead to not only reduce your data management burden, but also produce higher quality datasets. I look forward to engage with scientists and data managers towards achieving these goals.	Data management challenges/needs of OA PIs. The group I work with will codify & implement processes to provide 2nd level quality control of pH, Dissolved Inorganic Carbon (DIC), Total Alkalinity (TA), Dissolved Oxygen (DO), and aragonite saturation state. To successfully accomplish this, it is essential to work with scientists that understand these parameters and then develop QC processes with their guidance. I look forward to identify the experts on these variables with the objective to collaborate on the development of the QC processes.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/323506

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 **Shallin Busch**	NOAA Ocean Acidification Program and NW Fisheries Science Center Shallin.Busch@noaa.gov	Laboratory experiments on species sensitivity to carbonate chemistry conditions and ecological modeling related to OA and climate change	I am looking to collaborate with others on experiments on zooplankton and crabs including response metrics used in experiments, ecological modeling, and biological monitoring in pelagic ecosystems.	Characterizing species sensitivity in laboratory experiments; design of experiments to address multiple stressors; enhancing collaboration and communication within the OA community; ecological modeling related to OA and other stressors	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/314473 • https://agu.confex.com/agu/os18/meetingapp.cgi/Session/36176
 **Brendan Carter**	UW JISAO/NOAA PMEL brendan.carter@noaa.gov	Global Seawater Carbonate Measurements	Most, though I've found I benefit most from working with scientists who have a strong grasp/focus on the biological impacts of OA.	Measurements, data synthesis, novel observing platforms, data assimilating models.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/320343
 **Chris Chambers**	NOAA Northeast Fisheries Science Center chris.chambers@noaa.gov	Experimental ecology, quantitative methods, marine fish early life-stages, environmental effects on fitness traits	Collaborations / collaborators who bring complementary skill to our studies including molecular genetics, behavioral responses, metabolic scope, and otolith microstructure.	Scope of biological responses to elevated CO2, quantitative depiction and modeling of CO2 biological responses, adaptive potential of organisms to OA and co-stressors.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/325577 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/318899 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/314932

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					• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/309170 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/312202
 **Sophie Chu**	University of Washington JISAO/NOAA PMEL sochu@uw.edu	Carbonate chemistry, sensor development	I would like to collaborate with other scientists and companies working on developing methods and sensors to measure OA relevant parameters with lower power, lower costs, more accuracy, and faster response times	Sensor and technical development, ocean carbon chemistry, coastal acidification	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/322433
 **Anne Cohen**	Woods Hole Oceanographic Institution acohen@whoi.edu	Coral reefs	We need more physical oceanographers in coral reef research	Predicting the pH of coral reef systems	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/323077

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 **Sarah Cooley**	Ocean Conservancy scooley@oceanconservancy.org	Socioeconomic impacts of OA and policy action on OA	I'm always looking for scientists who can explain 'so what?' about OA to elected officials, and I'm looking for ecological and social science experts to collaborate on bringing OA information together into policy-relevant advice.	Using laboratory experiments to estimate population and ecosystem scale impacts; information needs to estimate impacts on human systems of OA and other stressors; multiple stressor impacts on marine ecosystems.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/318640
 **Emma Cross**	University of Connecticut emma.cross@uconn.edu	Multistressor impacts on brachiopods and marine fish across latitudes.	Collaborations into long-term field monitoring of environmental variables and researchers running fluctuating multistressor experiments.	1. Coastal acidification through the development of long-term field monitoring. 2. Advancements in experimental design through incorporation of fluctuating environmental variables, long-term studies and developments in multistressor approaches. 3. Incorporation of laboratory, field and modeling approaches.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/326032

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 **Jessica Cross**	NOAA-PMEL jessica.cross@noaa.gov	Interdisciplinary OA observations, prediction, and technology development, regionally focused on the Arctic and coastal Alaska	Bridging observations with OA prediction and projection designed for stakeholder and decision-maker uses, designing observation systems for this purpose	(1) Unexpected forms of ecosystem-level resilience to OA (2) Impacts of OA, including geographic population shifts (ecosystem level), specific sensitivities to different aspects of the carbon system (species / mechanism level), geochemical detection of impacts in the water column (3) Technical development of OA sensing systems that will help characterize OA impacts (1) Unexpected forms of ecosystem-level resilience to OA (2) Impacts of OA, including geographic population shifts (ecosystem level), specific sensitivities to different aspects of the carbon system (species / mechanism level), geochemical detection of impacts in the water column (3) Technical development of OA sensing systems that will help characterize OA impacts	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/310335

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 **Tyler Cyronak**	Scripps Institution of Oceanography tcyronak@gmail.com	Impacts of ocean acidification in naturally variable coastal ecosystems.	Collaborations that help develop a more comprehensive understanding of coastal acidification	Coastal acidification and ocean carbon chemistry	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/319071
 **Hans Dam**	University of Connecticut hans.dam@uconn.edu	Zooplankton response and adaptation to OA	Coupling of ecological and evolutionary responses of biota to OA	Evolutionary responses of the biota to OA	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/319499
 **Andrew Dickson**	Scripps Institution of Oceanography / UCSD adickson@ucsd.edu	Thermodynamics and analytical chemistry of CO_2 in seawater.	Individuals interested in assessing the likely uncertainty of seawater CO_2 measurements.	Ocean carbon chemistry & sensor and technical development and advancements in experimental design	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/315130 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/315795 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/314783

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 **Steve Doo**	California State University, Northridge steve.doo@csun.edu	Coral reef ecophysiology and metabolism	I am seeking to work with biogeochemists, molecular biologists, and modelers to incorporate ecological theory.	I would be interested in synthesis discussions on how to model multiple scales (both temporal and spatial) in the context of OA research, as well as advances to experimental laboratory-based research.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/325425
 **John Dunne**	NOAA/GFDL John.Dunne@noaa.gov	Global Modeling of historical and projected acidification	Better mechanistic understanding of modes of acidification and related factors affecting vulnerability across biodiversity	Vulnerability assessment and coast factors like connection to hypoxia and other stressors	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/318731
 **Robert Eagle**	University of California - Los Angeles robeagle@g.ucla.edu	Biomineralization responses	Interested in new collaborations to apply the tools we have developed to probe calcification fluid pH to new organisms.	Mechanistic explanations of OA sensitivity	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/323013

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 **Hedy Edmonds**	NSF hedmonds@nsf.gov	Ocean chemistry	N/A	Analytical innovations, signal detection and attribution.	
 **Wiley Evans**	Hakai Institute wiley.evans@hakai.org	Coastal CO_2 dynamics	Improved collaborations with the modeling community that could amplify the application of high-resolution data products.	Data syntheses and vulnerability assessments	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/321207 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/324607 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/325179 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/323909 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/325165 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/312805

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 **Andrea Fassbender**	MBARI fassbender@mbari.org	Upper ocean carbon cycling with autonomous sensors and carbonate system responses to anthropogenic carbon invasion into the ocean.	Observational and modeling collaborations for projects ranging from regional to global in scale.	1) Use of organisms in water quality assessment 2) Care in the use of "indicator species" 3) Complexities of using pH rather than $[H^+]$ when considering long-term changes in ocean acidity 4) OA metrics (e.g., omega vs. SIR vs. other?) 5) Subsurface carbonate system responses to rising ocean carbon content 6) DOC production/degradation response to OA	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/324943
 **Richard Feely**	PMEL / NOAA Richard.A.Feely@noaa.gov	Ocean chemistry changes and biological responses	Combined physical/chemical/biological measurements in the field	Future ocean chemistry changes in estuarine and coastal areas	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/305053

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 **Jerome Fiechter**	University of California Santa Cruz fiechter@ucsc.edu	Physical-biogeochemical modeling	Collaborations to improve synergies between modeling and observational efforts (e.g., OA testbed development).	Coastal acidification and co-stressors in upwelling systems. Understanding long term trends in the context of daily, seasonal and interannual variability. Skill and uncertainty in OA forecasts/predictions. Impacts on fisheries and coastal communities.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/315757
 **Nicole Fogarty**	Nova Southeastern University Nf121@nova.edu	Coral early life history stages	Expertise on experimental design and establishing OA experiments in remote locations.	Ocean acidification and co-stressor impacts on organisms	
 **Masahiko Fujii**	Hokkaido University mfujii@ees.hokudai.ac.jp	Modeling and monitoring	Collaborations with socio-economic fields	Mitigation and adaptation of OA	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/307190

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 **Aaron Galloway**	Oregon Institute of Marine Biology aaron.gallowayay@gmail.com	OA effects on juvenile Dungeness crab behavior and trophic cues.	I'm particularly interested in networking with folks who have worked with or will be working with OA and juvenile crustacean (post settlement) behavior and ecology.	Prey sensing, predator sensing, trophic efficiency, food quality, behavior.	
 **David Garrison**	NSF OCE dgarrison@nsf.gov	Phytoplankton ecology	None	Evolution, adaptation, epigenetic mechanisms.	
 **Dwight Gledhill**	NOAA Ocean Acidification Program Dwight.gledhill@noaa.gov		N/A		

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 **Claudine Hauri**	International Arctic Research Center/ UAF chauri@alaska.edu	I'm using a combination of observations and biogeochemical models to investigate the physical, chemical, and biological processes that control the natural and anthropogenic variability in the ocean's carbon system.	I think collaborations are best formed over a beer.	- Sensor development and integration with autonomous platforms - Use of biogeochemical models to understand the controls of carbonate chemistry	• https://agu.confex.com/agu/os18/preliminaryview.cgi/Paper321477.html
 **Gwenn Hennon**	Lamont-Doherty Earth Observatory, Columbia University ghennon@ldeo.columbia.edu	Acclimation and evolutionary responses of phytoplankton to OA	I am interested in synthesizing our genetic and physiological data sets from the lab with numerical modelers and field observations.	Synthesis of experimental data to predict changes in ecological structure with OA, genetic and OA phenotypic variation among species, species responses to variable CO2 conditions	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/319157

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 **Tacey Hicks**	Texas A&M University Hicks.tacey@tamu.edu	Impact of ocean acidification on calcifying organisms and ecosystems	n/a	Coastal acidification and the impact of OA with co-stressors on marine organisms.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/321154
 **Xinping Hu**	Texas A&M University - Corpus Christi xinping.hu@tamucc.edu	Estuarine and coastal acidification	Identification of multi-stressor effect on OA and the inclusion of estuaries in OA research	Multi-stressor effect, estuarine acidification, OA trends in different type of ocean margins and their controlling factors	• https://agu.confex.com/agu/os18/preliminaryview.cgi/Paper319269
 **Dana Hunt**	Duke University dana.hunt@duke.edu	Time series monitoring and microbial community and population responses	Time series analysis, environmental factors that interact with acidity	Coastal Acidification; multi-stressor experiments (e.g. pH and temperature)	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/319660

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 **Libby Jewett**	Director, NOAA OA Program libby.jewett@noaa.gov	Program management and international collaboration	Just more of the same.	I think it may be time to do a species response meta analysis for US coastal ecosystems. I would also like to consider whether we have learned enough to identify biological indicators for each of the US LMEs to monitor for OA impacts as part of biological observing system.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/311017
 **Liqing Jiang**	NOAA/National Centers for Environmental Information liqing.jiang@noaa.gov	Data management, Global and coastal inorganic carbon cycling	Data sharing, coastal carbonate data synthesis	Coastal carbonate data synthesis	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/320683
 **Zackary Johnson**	Duke University zij@duke.edu	Coastal ocean acidification with an emphasis on microbial processes and spatial/temporal variability	Linking datasets for emergent/broader trends; identifying changes in ecosystem functioning not just organismal responses	Identifying gaps for future research	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/325069

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 **Bror Jönsson**	University of New Hampshire Bror.jonsson @unh.edu	Combining physical and biological processes in a Lagrangian frame using satellite data, numerical models, and in-situ data	Interdisciplinary sensitivity studies. synthesis of physical oceanography and eco-physiological organismal niches.	Temporal and spatial scales of variability, especially in coastal systems	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/322441
 **Chris Jury**	Hawaii Institute of Marine Biology jurycp@hawaii.edu	Coral and coral reef organisms; biomineralization and ecophysiology; ecological and evolutionary responses.	Novel physiological and ecological approaches to studying organisms and communities.	Scaling up to communities; evolutionary and long-term responses.	

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 **Lydia Kapsenberg**	CSIC Institute of Marine Sciences, Barcelona kapsenberg@icm.csic.es	Coastal pH variability and biological responses	I want to form a group to write a perspective/review paper on ocean environmental/pH variability, its influence on biological processes and how this can be used to generate local solutions or adaptive measures.	1. How variable vs. non-variable environments will influence species adaptive capacity. 2. Multiple driver experiment design - transitioning from basic mechanism experimental design (full factorial) to more feasible present, near-future, future condition design. It depends on the question, but I would be interested to hear what people have been thinking about or implementing in their current research.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/316657
Maria Kavanaugh	Oregon State University mkavanau@ceoas.oregonstate.edu	Ocean color remote sensing, phytoplankton ecology			

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 **Andrea Kealoha**	Texas A&M University andreake@tamu.edu	Ocean acidification in coral reef ecosystems	Post-doctoral opportunities	Ocean acidification in coral reef ecosystems: emerging technologies and methods to measure net ecosystem calcification (NEC), challenges in understanding the drivers for NEC and our ability to predict future coral reef health, OA in combination with rising ocean temperatures, policy and management to mitigate OA and protect coral reefs	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/326710
Julie Kellner	NSF OCE Biological Oceanography jkellner@nsf.gov				
 **Faycal Kessouri**	University of California Los Angeles Kesf@ucla.edu	Physical biogeochemical modeling for OA scenarios and hotspots in the CCS	Collaborations with AO survey programs helping us to enhance our modeling efforts.	Ocean biogeochemical and ecosystem models. OA hotspots	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/303577

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 **Terrie Klinger**	University of Washington tklinger@uw.edu	Biological and ecological responses to OA	Collaborations across the physical, chemical, and biological domains	Estimation of ecosystem-level effects of OA and associated stressors	
 **Lucie Knor**	University of Hawai'i luciek@hawaii.edu	Long-term time series of coastal CO_2-carbonate chemistry.	I hope to obtain a fruitful first introduction to and overview of the groups working on ocean acidification.	I'm excited to learn about other projects on coastal carbonate chemistry and acidification. I would like to engage in interdisciplinary discussions about how to better connect research on biological and chemical aspects of acidification on coral reefs.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/322882
 **Sven Kranz**	Florida State University skranz@fsu.edu	Process understanding using marine phytoplankton cultures and incubations.	I am looking for research partners who study organism (phytoplankton) responses on the genetic and metabolic level as well as partners who are interested in implementing physiological processes into numerical models.	Acclimation effects; Physiological processes; physiological models and biogeochemical models; long term monitoring programs	• https://agu.confex.com/agu/os18/meetingapp.cgi/Session/37141 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/318451

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Ocean Acidification PI Meeting

February 17-19, 2018 (Portland, OR)

Name	Affiliation & email	Research expertise	Moving forward, what types of OA research collaborations are you seeking?	What OA subtopics interest you most with regard to synthesis discussions?	OA-related OSM presentations
Meredith Kurz	NOAA OAP meredith.kurz@noaa.gov				
 **Chris Langdon**	RSMAS/Uni of Miami clangdon@rsmas.miami.edu	Measuring effects of OA on coral reproduction, calcification, growth, photosynthesis, respiration in the lab and measuring NEP and NEC at the reef scale and analyzing MAPCO$_2$ data from coral reef sites.	I am interested in collaborating with anyone interested collecting and interpreting long term environmental data from OA monitoring sites.	Better understanding of the natural variability of carbonate chemistry in the ocean and on coral reefs in particular.	
 **Ming Li**	UMCES mingli@umces.edu	Modeling of carbonate chemistry and hypoxia in estuarine and coastal waters	Collaborations on modeling and comparative studies on different coastal systems	Model development, regional climate downscaling, impact of OA on coastal and estuarine systems	

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 **Steve Litvin**	MBARI litvin@mbari.org	Interactive effects of OA and other environmental drivers on individual performance and community structure	Development of indicators of performance and condition that can be developed in the lab and applied in the field	Defining and quantifying patterns of OA variability to parameterize laboratory experiments	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/313232
 **Matthew Long**	Woods Hole Oceanographic Institution mlong@whoi.edu	In situ measurements and fluxes	Unsure	Unsure	
 **Katie Lotterhos**	Northeastern University Marine Science Center k.lotterhos@northeastern.edu	Evolutionary responses, epigenetic responses, oysters	People that have data on coastal carbonate chemistry, developers of cheap sensors that can be deployed across many sites to measure pH, biologists interested in eco-evolutionary dynamics and adaptation	A synthesis of mechanisms of calcification across taxa	

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 **Amy E. Maas**	Bermuda Institute of Ocean Sciences Amy.Maas@bios.edu	Physiological and distributional changes in response to OA and interactive stressors	Truly interdisciplinary partnerships with (for example) bioinformaticians, policy makers, and geologists	Looking for consistent trends in gene expression analyses across taxa, development of biomarkers of ecosystem stress and implementation into ongoing time series projects	
 **Mai Maheigan**	OCB/WHOI mmaheigan@whoi.edu				
 **Sophie McCoy**	Florida State University mccoy@bio.fsu.edu	Scaling mineralogical and physiological responses to ecological scales.	How can we better synthesize our predictions and understanding of OA physiology and ecology across biogeographic scales?	Integration of ecophysiology and stress ecology, patterns on latitudinal or biogeographic gradients, global accessibility of 'approved' methods.	

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 **Paul McElhany**	NOAA Northwest Fisheries Science Center Paul.mcelhany@noaa.gov	I conduct experiments measuring organismal response (including evolutionary response) to elevated CO2 and other stressors, use individually-based models to evaluate exposure to stressful carbonate chemistry conditions, model projected ecosystem response to OA, and analyze time series to understand prospects for detecting OA effects on organisms in the field.	Collaborations to understand long-term ecological effects of OA on the Eastern Pacific Coast.	Species response experiments, detecting ecological effects of OA in the field, modeling long-term ecological effects of OA, evolutionary responses to OA.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/323234

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 **Anna K. McLaskey**	University of Washington mclaskey@uw.edu	Effects of OA on crustacean zooplankton (copepods and krill); indirect effects of OA and the influence of multiple stressors	I am looking to make collaborations to link individual zooplankton responses to community and ecosystem impacts through modeling, larger field studies, and coupled laboratory-field studies.	Biological monitoring, detecting impacts of OA in the field, linking laboratory experiments and field observations, social-ecological impacts, multiple stressors.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/321599
 **Nathaniel Mollica**	Woods Hole Oceanographic Institution nmollica@whoi.edu	Coral calcification under OA	I am looking for collaborations working on understanding the role of ocean acidification in a reef ecosystem environment from a holistic perspective.	Understanding biological and ecological responses to ocean acidification, in terms of phenotypic acclimatization and species interactions.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/323077
 **Juan Muglia**	Oregon State University jmuglia@coas.oregonstate.edu	Biogeochemical modeling	Collaborations to help understand some complex biogeochemical processes that are relevant to ocean acidification.	Modeling, changes in the aggregation and sinking of particles, future projections.	

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 **David Munro**	University of Colorado david.munro@colorado.edu	Underway ship observations of the carbonate system	As a principal investigator on a project that involves underway ship observations, I would like to build collaborations with researchers who are making carbonate system observations on floats, gliders and moorings.	Generally, I'm interested in long-term monitoring of carbonate system parameters in the Southern Ocean. I'm interested in exploring how observations from floats and other autonomous platforms are integrated with existing programs to obtain underway ship observations of carbonate system parameters. More specifically, I'm interested in exploring how existing ship-based programs can help validate/calibrate carbonate system observations made from autonomous platforms.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/323715 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/312892
 **Christopher Murray**	University of Connecticut christopher.murray@uconn.edu	Multi-stressor (e.g. acidification, hypoxia, and warming) experiments on fish early life stages.	Seeking collaborations on multi-stressor experiments for post-doctoral work.	I'm most interested in discussions that focus on OA and multi-stressor effects, particularly in fish and in early life stages. I'm also interested in discussions on modeling biological effects.	

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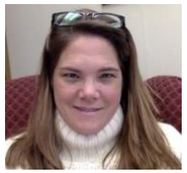
 **James Murray**	University of Washington jmurray@u.washington.edu	Coastal acidification	Colleagues to study the impact on community structure	1. Natural versus anthropogenic drivers 2. Mesocosm experimental approaches	
 **Janet Nye**	Stony Brook University Janet.nye@stonbrook.edu	Species and ecosystem responses to OA, carbonate chemistry monitoring in MidAtlantic	Ecosystem modeling approaches and monitoring in MidAtlantic coastal ocean	Effects of OA on trophic interactions, ecosystem and socioeconomic responses, OA monitoring in coastal ocean	
Erica Ombres	NOAA OA Program erica.h.ombres@noaa.gov				
 **Heather Page**	Mote Marine Laboratory hpage@mote.org	Coral reef community metabolism, coastal carbon biogeochemistry, and community responses to OA.	I am eager to collaborate as I develop a research program investigating coral-algal-sponge interactions under OA through experimental approaches and field studies.	I am most interested to hear about efforts in measuring coastal carbonate chemistry variability and understanding responses of coral reef ecosystems and ecological processes (e.g. competition, recruitment, facilitation) to OA.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/316779

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 **Darren Pilcher**	Joint Institute for the Study of the Atmosphere and Ocean/NOAA PMEL darren.pilcher@noaa.gov	Ocean biogeochemical and carbon cycle modeling in the Gulf of Alaska, Bering Sea, and Great Lakes.	I'd like to connect with the OA modelers from other regions (e.g. East Coast) and with biological experimentalists who are designing experiments from a multiple stressor perspective.	I'm interested in what the community feels like the critical next steps are for modeling, whether it's regional-scale projections, seasonal predictability, or working towards a direct implementation of OA impacts to biology.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/325165
 **Emily Rivest**	Virginia Institute of Marine Science ebrivest@vims.edu	Ecological physiology of marine invertebrates and environmental history	Interdisciplinary collaborations - chemical oceanographers (esp. experience in estuaries), evolutionary biologists, genomics researchers	Measurements of carbonate chemistry in moderate salinity and fluctuating salinity environments; scaling organismal responses to behavioral and population/ecosystem-level responses	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/308564 • Sessions OC51A, OC52A: Multiple Stressors and Multiple Disciplines

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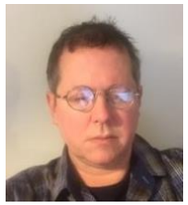
February 17-19, 2018 (Portland, OR)

Name	Affiliation & email	Research expertise	Moving forward, what types of OA research collaborations are you seeking?	What OA subtopics interest you most with regard to synthesis discussions?	OA-related OSM presentations
 **Keith Rodgers**	AOS Program, Princeton University krodgers@princeton.edu	Applying large-ensemble Earth system models to evaluate emergence timescales for ocean acidification; applying forward ocean models to evaluate pathways and mechanisms by which upwelling waters can sustain acidification.	Opportunities to collaborate with the measurement community are the principal area of interest.	I am particularly interested in exploring where upwelling of thermocline waters can be the dominant process sustaining acidification (re-emergence).	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/319099
 **Joe Salisbury**	University of New Hampshire joe.salisbury@unh.edu	Coastal biogeochemistry	Aquaculture, biogeochemical and physical modeling, fisheries	Aquaculture, coral reefs, physical variability	

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 **Andreas Schmittner**	Oregon State University aschmitt@coas.oregonstate.edu	Modeling	I'm looking for observationalists and other modelers who can help improve global ecosystem/BGC models.	Climate-carbon cycle feedbacks, biological pump, particle fluxes, ballasting, effects of OA on $CaCO_3$ production and dissolution	
 **Verena Schoepf**	University of Western Australia verena.schoepf@uwa.edu.au	Coral physiology and calcification mechanism under OA	Researchers running multiple stressor experiments, looking at adaptive responses to OA, anyone interested in boron-based geochemical proxies	Impacts of OA on coral physiology, coral calcification mechanisms, boron-based geochemical proxies, experimental design	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/315215 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/303855

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 **Julie Schram**	Oregon Institute of Marine Biology, University of Oregon jschram@uoregon.edu	Setting up and executing OA experiments in remote sites like Antarctica.	I would like to develop collaborations to investigate differences in organismal, population and community level responses across latitudes.	Coastal acidification and the dynamics of coastal systems. How coastal regions differ over time and space, particularly with respect to the co-occurrence of additional potential stressors such as warming and changing salinity, are very interesting to me. Our knowledge and understanding of these dynamics depends on new sensor development and associated technology, which in turn are an important part of developing models to predict OA and co-stressor dynamics.	
 **Uwe Send**	Scripps Institution of Oceanography usend@ucsd.edu	Multi-disciplinary real-time moored observations	Merging data from various moorings along the west coast, and merging mooring/glider/ship-board data from the same region; collaborating with others by bringing to bear low-cost real-time shallow-water moorings; exporting technology/expertise to other parts of the world ocean; making use of OceanSITES infrastructure	Relating the OA variability (from daily to interannual) to the driving processes (physical and biological)	

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 **Katie Shamberger**	Texas A&M University katie.shamberger@tamu.edu	Seawater carbonate chemistry in coastal ecosystems, especially those dominated by calcifying organisms, including tropical coral reefs, deep sea coral reefs, and oyster reefs.	As a chemical oceanographer, I especially value collaborations with people outside of my field, including those working in physical oceanography, biological oceanography, ecology, marine biology, toxicology, policy, etc.	I am especially interested in synthesis discussions that combine laboratory and field work on coral reef ecosystems and on coastal acidification. I am also interested in work on OA in combination with other stressors and on the interaction between OA and catastrophic events such as storms and global bleaching events.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/321963 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/326710; • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/321154; • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/314392; • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/318075; • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/319450
 **Samantha Siedlecki**	University of Connecticut samantha.siedlecki@uconn.edu	Biogeochemical modeling and forecasting	Different regions	Attribution of OA in biological impact studies; freshwater pH parameterizations and boundary conditions in models using data; identification of anthropogenic influences in coastal regions	

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 **Nyssa Silbiger**	California State University, Northridge nyssa.silbiger@csun.edu	Interactions between OA and the natural variability of coastal systems and test how together they influence ecosystem processes	I would be very excited to collaborate with oceanographers that are interested in looking at different scales of pH variability.	Natural OA buffering, Biophysical feedback loops, scaling from individual to ecosystem responses, coral reef accretion-erosion balances	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/326890
 **Martha Sutula**	Southern California Coastal Water Research Project marthas@sccwrp.org	Impacts of anthropogenic pollution on OA and management/policy applications	Collaborations to investigate biological impacts of OA and co-occurring climate change stressors.	Biological impacts of OA and co-occurring stressors; results of earth systems model investigating the relative impacts of natural variability, climate change, innovative OA monitoring instrumentation.	

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 **Yui Takeshita**	MBARI yui@mbari.org	Autonomous sensing technology and physical CO_2 chemistry	Colleagues who are interested in developing or using autonomous sensors to study processes over a range of timescales (hours to interannual)	1) Impact of high frequency variability to organismal / community response 2) Needs and state of autonomous sensing technology 3) Internal consistency of CO_2 chemistry 4) Environmental controls on NCC for coral reefs (temperature, light, pH) on different timescales 5) variability of CO_2 chemistry over multiple spatiotemporal scales	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/324687
 **Jeremy Testa**	UMCES Chesapeake Biological Laboratory jtesta@umces.edu	Interactions between eutrophication and acidification	Cross-system comparisons and links of geochemical models to living organisms	Interactions of multiple drivers of carbonate system	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/322702
 **Rob Toonen**	University of Hawaii toonen@hawaii.edu	Population genetics and evolutionary responses of coral reef organisms	Anyone interested in adding expertise and breadth to our on-going mesocosm experiments.	Relative influences of multi-stressor effects and evolutionary responses to change	

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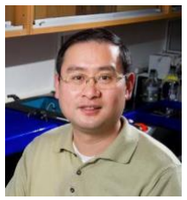
 **Shelly Trigg**	UCSD and NOAA NWFSC shelly.trigg@noaa.gov	Biological response to OA/systems biology	Collaborations with OA modelers and field experimenters whose research could benefit from the integration of functional genomics datasets.	Biological response to OA and integration of genomics/functional genomics with OA research	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/323609
 **Daniela Turk**	Dahousie University Daniela.turk@dal.ca	International coordination, observations and data analysis, empirical algorithms	Observations, data analytics, omics, social science	Coordination of international activities, integrations of data from multiple platforms, empirical algorithms	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/316148
 **Aleck Wang**	Woods Hole Oceanographic Institution zawang@whoi.edu	Carbonate chemistry, sensor technology, wetland carbon biogeochemistry, coastal carbon cycle, ocean acidification	Anyone interested in studying OA and its effects in productive and dynamic systems, such as coral reefs, estuaries, wetlands, and coastal oceans.	1. Interaction of long-term OA signal and short-term variability in highly dynamic systems such as coastal oceans, coral reefs, and wetlands. 2. New technologies in OA	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/322783

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 **Nancy Williams**	Oregon State University Nancy.williams@oregonstate.edu	Carbonate chemistry, biogeochemical profiling floats, climate-quality data, and the Southern Ocean	I would like to connect with others working on the biological side of Southern Ocean acidification and also to share my knowledge from working carbonate chemistry sensors on autonomous platforms.	I am interested in expanding my knowledge of carbonate chemistry to regions outside of the Southern Ocean while continuing to concentrate on the use of autonomous chemical sensors as a way toward collecting high-quality year-round data in remote and previously-undersampled regions.	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/325336
 **Branwen Williams**	Claremont Colleges bwilliams@keckscl.claremont.edu	Paleoceanographic record of OA and high-latitude/Arctic OA	Seawater chemists and OA modelers to refine our understanding of future OA in the Arctic.	I am interested in combining environmental observations with biological data to form a holistic view on OA, and to do this across temporal and spatial scales.	• http://agu.confex.com/agu/os18/meetingapp.cgi/Paper/322162
 **C. Brock Woodson**	University of Georgia bwoodson@uga.edu	Exposure of nearshore ecosystems to ocean acidification	Collaborations with ecologists and biologists studying exposure of nearshore organisms	Exposure to multiple stressors in nearshore environments	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/319427 • https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/312608

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 **Tim Wooton**	University of Chicago twootton@uchicago.edu	Long-term dynamics and ecological responses of coastal ecosystems	Opportunities for more detailed spatio-temporal analysis of key parameters, responses of experimental ecosystems to manipulation of CO2 concentration in air and associated feedbacks, mechanisms of change in total alkalinity, and furthering studies of OA in real ecosystems.	Understanding complexities of coastal ecosystems; feedbacks among marine organisms, CO2 absorption from atmosphere, and changes in alkalinity; methods to make research relevant to field situations/ocean ecosystems.	
 **Richard Zimmerman**	Old Dominion University rzimmerm@odu.edu	I am interested in photosynthetic responses to OA, and interactions with other potential stressors, e.g. temperature.	Transcriptomics and metabolomics	Developing mechanistic relationships & exploring multiple stressors	• https://agu.confex.com/agu/os18/meetingapp.cgi/Paper/306877

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