

# The PIER Review



Welcome to the June 2018 issue of the PIER Review, the monthly GOA-ON Pier2Peer newsletter. The Review highlights accomplishments, provides updates for our members, highlights open-access research on ocean acidification, and shares funding or job opportunities. Please send all of your ideas for the newsletter to Meredith Kurz ([meredith.kurz@noaa.gov](mailto:meredith.kurz@noaa.gov)) and we will be sure to incorporate your feedback into future editions of The PIER Review.

**June 8 is World Oceans Day!** How will you be celebrating World Oceans Day this year? Find a [beach cleanup near you](#) or collect some carbonate chemistry data!

## P2P PARTNERSHIP Feature

This month's Pier2Peer feature showcases the partnership between mentor **Dr. Denis P. Pierrot** (Cooperative Institute for Marine and Atmospheric Studies, Rosenstiel School for Marine and Atmospheric Science, University of Miami, and the NOAA Atlantic Oceanographic and Meteorological Laboratory [AOML], Miami, USA) and mentee **Dr. Carla F. Berghoff** (Plankton Dynamics and Climate Change Project, National Institute for Fisheries Development and Research, Instituto Nacional de Investigación y Desarrollo Pesquero [INIDEP], Mar de Plata, Argentina).

Carla and Denis were matched under Pier2Peer based on their mutual research interest in underway pCO<sub>2</sub> instruments and investigating air-sea gas exchange dynamics. They began their collaboration by establishing their mutual research interests and the specific skills that Denis could help Carla develop via email. One concrete step that they took early on was to establish what instrumentation was available to Carla that Denis was familiar with. A firm foundation for a successful partnership was established through their discussion of specific, actionable steps to expand Carla's capacity to use the systems available to her. She will then be able to produce new carbonate chemistry data and expand observations in the Argentine Sea, an area where there have not been direct pCO<sub>2</sub> measurements in a decade.

Denis and Carla applied for an Ocean Foundation Pier2Peer Scholarship to fund Carla's training with the General Oceanics 8050 pCO<sub>2</sub> underway system, which is fitted to the new INIDEP R/V *Victor Angelescu* and is also used by Denis and other AOML researchers. They were awarded a scholarship to carry out their detailed plan to send Denis to INIDEP for a week to give hands-on training with the underway system. In turn, Carla will visit Miami for practical training in data management and QA/QC. These training sessions will enable Carla to collect new carbonate chemistry data in the Argentine Sea. She laid out a clear plan to share this new data with the larger Latin American Ocean Acidification Network (LAOCA), GOA-ON, and the SOCAT database.



*The R/V Victor Angelescu, courtesy of Dr. Carla Berghoff and INIDEP*

## **BECOME A Pier2Peer RECRUITER**

We are always recruiting senior and experienced OA observing experts to serve as mentors and early career scientists from emerging regions to become mentees. If you know someone who would be a good mentor or mentee, direct them to the [Pier2Peer website](#) or put them in contact with Meredith Kurz ([meredith.kurz@noaa.gov](mailto:meredith.kurz@noaa.gov)).

If you are attending a meeting or event, are interested in sharing a few slides on the program and disseminating sign-up information, please email Meredith and we will send you communication materials and sign-up sheets for your upcoming event. And thanks!

## **UPCOMING EVENTS and CONFERENCES**

[The 4<sup>th</sup> GEO Blue Planet Symposium on Oceans and Society](#) will be held on 4-6 July 2018 in Toulouse, France. Abstract submission is closed, registration is still open.

[The International Council for the Exploration of the Sea \(ICES\) Annual Science Conference 2018](#) will be held on 24-27 September 2018 in Hamburg, Germany. Abstract submission is closed but registration is still open.

[The Sustainable Ocean Summit](#) organized by the World Ocean Council will be held on 14-16 November 2018 in Hong Kong.

[OceanObs'19](#) is part of a decadal conference series on setting ocean observation priorities to be held on 16-20 September 2019 in Honolulu, Hawaii, U.S.A. Abstract submission for white papers is closed; registration and a call for posters will be open in the fall of 2018. OceanObs'19 is expecting 1400-1500 attendees and will announce some scholarships to attend for early career scientists and those working in developing nations at a later date.

## **FUNDING and JOB OPPORTUNITIES**

### **WIOMSA Funding for Establishing OA Observations in the Western Indian Ocean**

#### **Deadline Extended!!**

Organization: Western Indian Ocean Marine Science Associated (WIOMSA), IOC-UNESCO, the IAEA OA-ICC, and GOA-ON.

Description: WIOMSA and partners are calling for proposals for establishing ocean acidification observation systems in the field, investigating biological response to ocean acidification stress using experimental set-ups in the laboratory, or a combination of both from institutions in the WIO region.

Requirements: Must be representing an institution in the WIO region and provide a proposal according to the requirements, with long-term goals to conduct OA research or observations.

Amount: Maximum USD 100,000 per site/institution

Application Deadline: 30 June 2018 (must fill out interest survey by 15 June)

[Application Details](#)

### **The Ocean Foundation Pier2Peer Scholarships**

Organization: The Ocean Foundation

Description: Small grant program providing funds to Pier2Peer matches to collaborate on a project, conduct training visits, collect data for GOA-ON submission, etc.

Requirements: Applicants must be in a Pier2Peer partnership and applying to use funds to support this collaboration.

Amount: USD 5,000

Application Deadline: July 16<sup>th</sup> is the due date for the Summer 2018 review period; applications are accepted on a continuing basis; submit to [avalauriorton@oceanfdn.org](mailto:avalauriorton@oceanfdn.org) and [meredith.kurz@noaa.gov](mailto:meredith.kurz@noaa.gov).

Application Details: Attachment with this email

### **UK Darwin Main Project Funding – Round 25**

Organization: United Kingdom Darwin Initiative

Description: Supports projects tackling biodiversity threats in developing countries. Of particular relevance to this call is tackling the threats to marine biodiversity, such as damage to coral reefs, plastic waste and building resilience to ocean acidification.

Requirements: Check [application details](#) to ensure your country is eligible.

Amount: No specific maximum, check details for guidance on reasonable limits.

Application Deadline: 24 July

[Application Details](#)

**Western Indian Ocean Marine Science Association Marine Research Grant Programme**

Organization: Western Indian Ocean Marine Science Association (WIOMSA)

Description: The award is designed to enhance the capacity of scientists in the Western Indian Ocean region to conduct marine research. There are three tiers (MARG I, II, III) that vary in duration and amount. MARG I applications are closed.

Requirements: Applicants should be young scientists studying the Western Indian Ocean region

Amount: USD 3,000 (MARG III), USD 6,000 (MARG II)

Application Deadline: 30 September 2018 for MARG II, no deadline for MARG III

[Application Details](#)

**US Agency for International Development Partnership for Enhanced Education and Research**

Organization: US Agency for International Development and US National Science Foundation

Description: The award is intended to foster international partnerships between eligible developing country institutions and a partner US institution.

Requirements: Applications must be submitted together by representatives from either a higher education institution in the US or from a higher education institution in a developing country. Either institution may be the prime awardee and the two institutions must have well developed plans to collaborate. [Examples of previous awards](#)

Amount: USD 500,00 to 1,000,000

Application Deadline: Next deadline January 2019; proposals can take a while to develop

[Application Details](#)

**EMBO Short-Term Travel Fellowships**

Organization: European Molecular Biology Organization

Description: The fellowship funds research exchanges of up to three months between laboratories in [eligible member countries and cooperation partners](#).

Requirements: Applicants must be from one of the member or cooperation countries and traveling to a lab in another member or cooperation country. Research must be related to life sciences. The travel must be associated with a larger project and not just limited to training in a technique, though it can include that type of training.

Amount: Travel and living costs of the traveling fellow

Application Deadline: Three months before proposed starting date of travel

[Application Details](#)

***Jobs Lists:***

[The Global Marine Community Newsletter & Jobs List](#)

[Josh's Water Jobs List](#)

## NEWS and links to select OPEN ACCESS ARTICLES on OA

### News:

**The Global Ocean Acidification Observing Network (GOA-ON) Executive Council had their 5<sup>th</sup> Annual Meeting** at the Institute of Oceanology of the Polish Academy of Sciences (IO PAN) in Sopot, Poland from May 28-30. During the meeting, the methodology for the Sustainable Development Goal (SDG) target indicator 14.3.1 (“average marine acidity measured at an agreed suite of representative sampling stations”) was reviewed. The GOA-ON EC welcomed the recognition of ocean acidification as one of the seven World Meteorological Organization Global Climate Indicators. Additionally, the GOA-ON Executive Council reported on GOA-ON international capacity building activities including Pier2Peer, received updates from the regional hubs, and welcomed the new GOA-ON Secretariat, among other exciting updates. See the [GOA-ON website](#) for further documents and details in the coming days.

**Stay up to date on ocean acidification science and policy news with [the Ocean Acidification International Coordination Centre’s newstream!](#)**

*Science Daily* Research Highlights:

[Internal control helps corals resist acidification](#)

[Excess nutrients, coupled with climate change, damage the most highly resilient corals](#)

### Science:

DeCarlo, T.M., Ren, H., and G.A. Farfan. 2018. [The origin and role of organic matrix in coral calcification: insights from comparing coral skeleton and abiogenic aragonite.](#) *Front. Mar. Sci.* <https://doi.org/10.3389/fmars.2018.00170>

Laubenstein, T.D., Rummer, J.L., Nicol, S., Parsons, D.M., Pether, S.M.J., Pope, S., Smith, N., and P.L. Munday. 2018. [Correlated effects of ocean acidification and warming on behavioral and metabolic traits of large pelagic fish.](#) *Diversity.* 10(2): 35.

Menzo, Z.M., Elliott, S., Hartin, C.A., Hoffman, F.M., and S. Wang. 2018. [Climate change impacts on natural sulfur production: ocean acidification and community shifts.](#) *Atmosphere.* 9(5): 167. <https://doi.org/10.3390/atmos9050167>

Takeshita, Y., Cyronak, T., Martz, T.R., Kindeberg, T., and A.J. Andersson. 2018. [Coral reef carbonate chemistry variability at different functional scales.](#) *Front. Mar. Sci.* <https://doi.org/10.3389/fmars.2018.00175>

Wang, J., Russell, B.D., Ding, M.-W., and Y.-W. Dong. 2018. [Ocean acidification increases the sensitivity of and variability in physiological responses of an intertidal limpet to thermal stress](https://doi.org/10.5194/bg-15-2803-2018). *Biogeosciences*. 15: 2803-2817. <https://doi.org/10.5194/bg-15-2803-2018>

