

The PIER Review

Welcome to the January 2020 issue of the PIER Review, the monthly [GOA-ON Pier2Peer](#) newsletter! This edition provides updates for our members, and shares funding, job opportunities and recently published open-access publications. Please send ideas and feedback for future Pier Review editions to Alicia Cheripka (alicia.cheripka@noaa.gov)

P2P FEATURE

Letter from the Editor:

Hi Everyone,

Wow! 2019 has flown by, and I wanted to start by saying thank you for your continued involvement with the Pier2Peer Program. It has been a pleasure getting to know many of you and being a part of all of your amazing successes. While my time with Pier2Peer is ending, I know that I will be leaving the program in the capable hands of the new Pier2Peer coordinator, Michael Acquafredda.

Mike is joining NOAA's Ocean Acidification Program as their 2020 International Fellow (my current position). He just recently completed his PhD from Rutgers University focusing on surf clam aquaculture with the intention of developing methods that can be utilized by bivalve farmers to help diversify the Northeast US' aquaculture sector. He also is investigating whether heat tolerance is a heritable trait in the surf clam since this species is vulnerable to high temperature conditions that will be exacerbated by climate change. Mike will be starting February 1st, 2020 and will be bringing lots of enthusiasm and a wonderful perspective. Mike will be the new point of contact for the Pier2Peer program and will be on the GOA-ON Secretariat, covering the North



American Hub, Pacific Islands Hub, Latin American Hub, and the new Arctic Hub.

I will miss leading this mentorship program. All of you have inspired me so much. I cannot wait to hear about all of the exciting things you achieve in the coming years. I hope to see some of you at various conferences/events in the future and I would be happy to stay in contact!

All of the best,
Alicia C.

Do you have an exciting accomplishment or experience with the Pier2Peer program you would like to share? Send it to Alicia Cheripka (alicia.cheripka@noaa.gov) and you could be featured!

BECOME A Pier2Peer RECRUITER

We are recruiting senior and experienced OA observing experts to serve as mentors. If you know someone who would be a good mentor, direct them to the [Pier2Peer website](#) or put them in contact with Alicia Cheripka (alicia.cheripka@noaa.gov).

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

JOIN THE OA INFO EXCHANGE

The OA Information Exchange (OAIE) is a place to swap ideas, share resources, and interact with people in a variety of disciplines across many regions. This includes your mentor or mentee!

Members can:

- post updates and comments with questions, answers or announcements
- share papers, media files, presentations and links
- add events and host webinars
- join teams based on regions and topics of interest
- meet new people from a variety of fields
- **The OAIE is also a fantastic resource to connect with your mentor or mentee!**

Scientists, citizen scientists, educators, NGO and government employees, resource managers, fishers, aquaculturists, concerned citizens, and others are all welcome to take part in the OA Information Exchange community! You can join [here](#).

Join the Interdisciplinary Marine Early Career Network (IMECaN)

IMECaN aims to:

- Provide a networking platform for early career marine researchers to develop collaborations;
- Provide training and development in areas not traditionally provided through formal education and training programmes; and
- Provide leadership opportunities for ECR marine researchers, particularly from developing nations.
- IMECaN was officially launched at the IMBeR Future Oceans2 Open Science Conference in Brest, France on 16 June 2019

IMECaN activities:

Before officially launched, members of the newly formed IMECaN Organising Committee undertook two very successful early career events.

- In June 2018, a workshop was convened in Losinj, Croatia, to teach EU-based early career researchers how to work efficiently at the Science-Policy-Society interface. Thirty students and early career researchers participated in the workshop.
- The IMBeR ClimEco6 summer school was held in Yogyakarta, Indonesia and brought together 50 transdisciplinary ECRs to consider Transdisciplinary Approaches towards Sustainable Oceans.

Join the IMCaN [HERE](#)

UPCOMING EVENTS and CONFERENCES

[5th International Symposium on the Ocean in a High-CO2 World \(Lima, Peru\)](#)

The 5th Symposium on the Ocean in a High-CO₂ World will take place in **Lima, Peru from 7-10 September 2020**. The Symposium is the place to share cutting-edge science in a rapidly developing frontier of research dealing with the science of ocean acidification and related stressors. The Symposium will feature keynote talks by some of the leading experts in the field, as well as special events on ocean acidification and aquaculture, carbonate chemistry and the Latin American Ocean Acidification Network (LAOCA). As with past symposia in this series, we anticipate GOA-ON to play an important role in presenting advancements in ocean acidification research.

For more information on the Symposium themes, abstract submissions and meeting details, please visit the Symposium website at <http://www.highco2-lima.org>.

Key dates:

6 March 2020, abstract submission deadline
15 April 2020, abstract and travel support applicants notified
5 June 2020, early registration closes
21 August 2020, registration closes
7 September 2020, on-site registration

[Ocean Sciences Meeting, San Diego, CA](#)

16-21 February 2020

The Ocean Sciences Meeting (OSM) is the flagship conference for the ocean sciences and the larger ocean-connected community. As we approach the UN Decade of Ocean Science for Sustainable Development, beginning in 2021, it is increasingly important to gather as a scientific community to raise awareness of the truly global dimension of the ocean, address environmental challenges, and set forth on a path towards a resilient planet. The Ocean Sciences Meeting 2020 is co-sponsored by AGU, the Association for the Sciences of Limnology and Oceanography (ASLO), and The Oceanography Society (TOS). Through the combined power of these three organizations, along with the broader conservation-focused community, this meeting provides attendees the opportunity to bridge disciplines, connect communities, and make lasting partnerships.

The Ocean Sciences Meeting will include nine sessions related to the theme titled “Ocean Change: Acidification and Hypoxia”. These sessions will focus on human impacts, interactions of multiple stressors, modeling, mitigation techniques, and other relevant topics. For more information on these sessions, visit [here](#). Registration is currently open.

[Sixth International Symposium on Arctic Research \(ISAR-6\)](#)**March 2-6, 2020**

The ISAR is aimed at bringing together Arctic researchers from all over the world to present and discuss scientific research results, sharing knowledge gaps, and exploring the future of Arctic research. In ISAR-6, we are planning to discuss how Arctic research has been progressing in the past ten years, and what we should do in the next ten years for sustainable development.

ISAR-6 will consist of general sessions and special sessions. The general sessions will address the following topics: atmosphere; ocean and sea ice; rivers, lakes, permafrost and snow cover; ice sheets, glaciers and ice cores; terrestrial ecosystems; marine ecosystems; geospace; laws, politics and economy; language, culture and health; engineering for sustainable development.

We would like to invite you to attend ISAR-6, which will be held at Hitotsubashi Hall in Tokyo. It will be organized by the Japan Consortium of Arctic Environmental Research (JCAR) under the auspices of several institutions in Japan. A lower registration fee is available for young scientists and students.

Venue: Tokyo, Japan

Website: <https://www.jcar.org/isar-6/>

Deadline: January 20, 2020 Early Bird registration ends. February 3, 2020 Registration ends.

[International Indian Ocean Science Conference \(IIOSC\)-2020](#)**March 16-20, 2020**

The International Indian Ocean Science Conference 2020 (IIOSC-2020) sponsored by Ministry of Earth Sciences (MoES), Govt. of India, will be held during 16-20 March, 2020 at Goa India co-hosted by National Institute of Oceanography (NIO) Goa, National Centre for Polar Ocean Research (NCPOR) Goa, Goa University and Indian National Centre for Ocean Information Services (INCOIS) Hyderabad, India. The conference aims at assessing the progress and scientific knowledge gained during the last 4 years of International Indian Ocean Expedition-2 (during 2016-2020). It is also an opportunity for scientists working on different facets of the Indian Ocean

to present their ideas and discuss the outstanding issues, identify the knowledge gaps and plan a way forward to address such issues.

Scientists and colleagues who are interested in the Indian Ocean should save the date for this conference.

Venue: CSIR-National Institute of Oceanography (NIO) – Goa, India

Website: <https://iiosc2020.incois.gov.in/>

More information: [PDF](#)

[A Changing Arctic Conference](#)

June 2-5 2020

Clarion Hotel The Edge, Tromsø, Norway

Robust evidence now exists for anthropogenically-forced shifts in the Earth's environment. Observations in the Arctic reveal dramatic reductions in the extent and thickness of the sea ice, rising atmospheric temperatures, widespread permafrost degradation and ocean acidification. These changes bring with them implications for biology, ecosystem services and society in general.

Full understanding of current and projected Arctic environmental change is becoming an imperative in order to minimize and manage corresponding impacts. This conference aims to provide a forum for the three main themes of:

Land - incorporating ecological impacts, permafrost, and landscape evolution

Ocean (coastal and open) - incorporating physical changes, ocean acidification, and ecological impacts

The Future — covering social aspects and including mitigation, adaptation, exploration, and management

[Abstract submission is now open](#) (Deadline: Monday, February 24, 2020 at 18:00EST)

FUNDING and JOB OPPORTUNITIES

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 an active Pier2Peer partnership and applying to use funds to support this collaboration.

Amount: USD 5,000

Application Deadline: Current quarter deadline: **31st January 2020**; Applications are accepted on a continuing basis; submit to Alicia Cheripka (alicia.cheripka@noaa.gov) and Alexis Valauri-Orton (avalauriorton@oceanfdn.org).

The Ocean Acidification Information Exchange Microgrants

Organization: OA Information Exchange

Description: The mission of the Ocean Acidification Information Exchange is to respond and adapt to ocean and coastal acidification by fostering an online environment built on trust,

where our members, regardless of background, feel empowered to ask, answer, and learn from one another. To that end, we are offering grants for members of the site who propose innovative strategies for leveraging the OA Information Exchange's collaboration tools to advance our community's mission, facilitate their own work related to ocean and coastal acidification and expand the reach/utility of the OA Information Exchange. To apply, [click here](#). Requirements: Must be a member of the OAIE
Amount: Award amounts between \$200USD and \$5,000USD
Deadline: Rolling Basis
More information and criteria can be found on the [OAIE](#) or the [RFP](#)

POGO Shipboard Fellows

Organization: The Partnership for Observation of the Global Ocean (POGO)

Description: POGO offers a number of shipboard fellowship opportunities on ocean research vessels. Normally, specific calls for fellows working in certain sub-disciplines are issued six months before a cruise begins. However, POGO also fills available berths with qualified applicants on shorter notice. They have issued an open call for early career scientists, technicians, postgraduate students, and post-doctoral fellows involved in oceanographic work at centers in developing countries and countries with economies in transition. Qualified applicants will be contacted if an appropriate shipboard fellowship becomes available.

Requirements: Applicants must be involved in oceanographic work in a developing country or a country with an economy in transition. They must provide a fellowship proposal, intentions to build capacity for ocean observing, and a summary CV.

Amount: Round-trip ticket from home institute to the host institution; up to two months' stay at home institution to train prior to cruise; accommodation at ship port; ship messing fee; seafaring medical and sea survival course.

Application Deadline: Open call with no stated closure.

[Application Details](#)

Western Indian Ocean Marine Science Association Marine Research Grant Programme

Organization: Western Indian Ocean Marine Science Association (WIOMSA)

With support from the Swedish Government and WIOMSA, the Marine Research Grant (MARG) Programme seeks to enhance capacity to conduct research and increase our understanding on various aspects of marine sciences, and offer opportunities for researchers from the WIO to present their results in different regional and international fora. In addition provides opportunities for targeting wider audiences and opportunities to learn special skills.

The MARG Programme covers all subject areas of marine science and technology. MARG is a competitive grant system managed by a special Committee that selects proposals for research in those areas that are designated as being high priority within the development plans of the WIO member states. The funds can be used at the discretion of the grantee to enable the proposed schedule of work to be carried out, which must take place within 1 year of the award being made. The grants are available for researchers within WIO institutions.

MARG-I: Intended to provide opportunities for emerging research scientists including MSc and PhD students wishing to turn their ideas into real research projects by carrying out well-defined research activities in their countries/institutions. MARG-I Research Grants are awarded for a

duration of 1 year. The maximum amount offered is US\$ 10,000 per year. Proposals for MARG I Grants are due **14 February 2020**.

MARG-II: Intended to provide opportunities to individual research scientists to share their work, or gain technical experience by working in a specific laboratory. MARG II grants are also available for data analysis and manuscript write-up within the WIO region or where necessary, outside the region. The maximum duration of MARG-II is 3 months, and the maximum amount offered is US\$ 6,000. Proposals for MARG II Grants are reviewed continuously through the year as long as funds are available.

MARG-III: Intended to provide opportunities for individual researchers to travel to attend scientific meetings and conferences for the purpose of presenting their work and learning from others. The maximum amount offered is US\$ 3,000. Proposals for MARG III Grants are reviewed continuously through the year subject to availability of funds. MARG III grants are provided for the purchase of return tickets, accommodation or daily subsistence allowance.

For detailed instructions for applying for these grants, download the call for proposals and to apply visit <http://proposals.wiomsa.org>

For more information contact the WIOMSA secretariat: secretary@wiomsa.org

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](#)

Job opportunity: Project technical assistant – New Zealand Pacific Partnership on Ocean Acidification

Applications are invited for the following position with SPREP at Apia, Samoa. The Secretariat has an exciting and challenging opportunity for qualified professionals who are interested to be part of one of the world's leading regional environmental organizations based in Apia, Samoa with about 100 staff recruited from around the world.

Full details on responsibilities, requirements, remuneration packages and lodging an application can be obtained from the Employment section of our website: <http://www.sprep.org> or by contacting Marion Tuipulotu-Chan Chui on telephone: +685 21929 Ext. 328, Fax: +685 20231, or direct Email: marionc@sprep.org. Applications Close: **Friday, 17 January 2020**

Job opportunity: Postdoctoral Research Associate: Marine Physiological Ecology- William and Mary (Virginia Institute of Marine Science)

William & Mary's Virginia Institute of Marine Science/School of Marine Science (VIMS/SMS) invites applications for 1 postdoctoral research associate to join in their study of the effects of multiple stressors on the physiology and behavior of ovigerous lobsters and their offspring.

Specific responsibilities include (but are not limited to):

- Oversee experiments on effects of multi-stressors on ovigerous lobsters and their offspring
- Conduct behavioral studies and physiological measurements
- Data collection, analysis, and publication
- Provide mentorship of graduate and undergraduate students

Start date is negotiable, but ideally, the position will begin in spring/summer 2020.

For full consideration, please submit all applications materials by Feb 1, 2020. The application will remain open until filled, but applications submitted after Feb 1 will only be considered as needed. Application details and submission can be found [here](#)

Jobs Lists:

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

[Ocean Opportunities](#)

[Josh's Water Jobs List](#)

[International Ocean Carbon Coordination Project Jobs](#)

[OA-ICC Job News Stream](#)

OA-ICC Bibliographic database

The OA-ICC bibliographic database currently contains more than 5,800 references related to ocean acidification, and includes citations, abstracts and assigned keywords. In addition to being available in [Mendeley](#), this bibliographic database is freely available on the platform [Zotero](#).

In order to access this database, go to the Zotero homepage and create a free account. Click on the Groups tab, search for the group "OA-ICC", and join this group. For more information on how to access the database and its functions, please see the "[User instructions](#)".

Links to new OPEN ACCESS ARTICLES on OA

Bitter, M. C., Kapsenberg, L., Gattuso, J. P., & Pfister, C. A. (2019). [Standing genetic variation fuels rapid adaptation to ocean acidification](#). *Nature Communications*, 10(1), 1-10.

Dziergwa, J., Singh, S., Bridges, C. R., Kerwath, S. E., Enax, J., & Auerswald, L. (2019). [Acid-base adjustments and first evidence of denticle corrosion caused by ocean acidification conditions in a demersal shark species](#). *Scientific Reports*, 9(1), 1-10.

- Esposito, V., Canese, S., Scotti, G., Bo, M., De Vittor, C., Andaloro, F., & Romeo, T. (2019). [Spiculosiphon oceana \(foraminifera\) and its affinity to intermediate stress conditions in the Panarea hydrothermal complex \(Mediterranean Sea\)](#). *Marine Biodiversity Records*, 12(1), 1-8.
- Frommel, A. Y., Brauner, C. J., Allan, B. J., Nicol, S., Parsons, D. M., Pether, S. M., ... & Munday, P. L. (2019). [Organ health and development in larval kingfish are unaffected by ocean acidification and warming](#). *PeerJ*, 7, e8266.
- Hofmann, M., Mathesius, S., Kriegler, E., van Vuuren, D. P., & Schellnhuber, H. J. (2019). [Strong time dependence of ocean acidification mitigation by atmospheric carbon dioxide removal](#). *Nature Communications*, 10(1), 1-10.
- Ishizu, M., Miyazawa, Y., Tsunoda, T., & Ono, T. (2019). [Long-term trends in pH in Japanese coastal seawater](#). *Biogeosciences*, 16(24), 4747-4763.
- Jiang, L. Q., Carter, B. R., Feely, R. A., Lauvset, S. K., & Olsen, A. (2019). [Surface ocean pH and buffer capacity: past, present and future](#). *Scientific Reports*, 9(1), 1-11.
- Lymbery, R. A., Kennington, W. J., Cornwall, C. E., & Evans, J. P. (2019). [Ocean acidification during prefertilization chemical communication affects sperm success](#). *Ecology and Evolution*.
- McMahon, S. J., Munday, P. L., Wong, M. Y., & Donelson, J. M. (2019). [Elevated CO₂ and food ration affect growth but not the size-based hierarchy of a reef fish](#). *Scientific Reports*, 9(1), 1-10.
- Schiltroth, B. W., Ohori, K. T., & Bisgrove, S. R. (2019). [Impacts of acidic seawater on early developmental stages of fucoid algae](#). *Frontiers in Marine Science*, 6, 755.
- Wall-Palmer, D., Hegmann, M., Goetze, E., & Peijnenburg, K. T. (2019). [Resolving species boundaries in the Atlanta brunnea species group \(Gastropoda, Pterotracheoidea\)](#). *ZooKeys*, 899, 59.
- Zhang, H., & Wang, K. (2019). [Simulated CO₂-induced ocean acidification for ocean in the East China: historical conditions since preindustrial time and future scenarios](#). *Scientific Reports*, 9(1), 1-15.