



Term: Spring Quarter | Issue: 6

NEWS

POGO Machine Learning and Artificial Intelligence Workshop

The Partnership for the Observation of the Global Oceans' ([POGO](#)) Biological Observations Working Group will be hosting a workshop on Machine Learning and Artificial Intelligence (ML/AI) for Biological Observations.



The three-day workshop will take place May 19-22 in Ostend, Belgium and will introduce attendees to ML/AI techniques currently being applied in the field. Dr. Eric Orenstein, post-doctoral scholar at Scripps, will lead the session on imaging, while researchers from MBARI, University of Genève, and AZTI Tecnalia will lead sessions on acoustics and genomics.

Fulbright Awards Open



Fulbright Awards are now open for faculty, administrators and students. Awards are offered in archaeology, biology, chemistry environmental sciences, geology, and more. To search available awards by region, country, or discipline, click [here](#).

The **Fulbright Scholar** programs offer nearly 470 teaching and research awards in over 125 countries. Opportunities are now available for university faculty and administrators.

The **Fulbright Student Program** offers research, study and teaching opportunities in over 140 countries to recent graduates and graduate students. Students must apply through [UC San Diego's Graduate Division](#).

For questions, please contact [Roark Miller](#), Director of International Faculty & Scholars Office.

UN Decade of Ocean Science Planning Meeting

On 13-15 May 2019, the Intergovernmental Oceanographic Commission of UNESCO convened the 1st Global Planning Meeting in preparation for the UN Decade of Ocean Science for Sustainable Development.

The Global Planning Meeting provided a forum to gather approximately 200 thought-leaders/champions/key stakeholders. It was attended by Director Margaret Leinen and Dr. Lisa Levin from Scripps. A mixture of plenary and break-out groups facilitated international, interdisciplinary discussions across sectors to identify concrete deliverables and partnerships to meet the Decade's six societal objectives:

- A Safe Ocean
- A Sustainable and Productive Ocean
- A Transparent and Accessible Ocean
- A Clean Ocean
- A Healthy and Resilient Ocean
- A Predicted Ocean

You can watch the livestream and recordings [here](#).



**2021
2030** United Nations Decade
of Ocean Science
for Sustainable Development

VISITS AND EVENTS

French Ameri-Can Climate Talks on Biodiversity

The French Ameri-Can Climate Talks on Biodiversity (FACT-B) are a part of France's broader efforts to make biodiversity conservation a priority at the international level, in the same way as the fight against climate change. The public conference series raises awareness and reinforces exchanges between scientists and experts on climate and biodiversity issues. The Center for Marine Biodiversity and Conservation (CMBC) is partnering with the Scientific Office of the French Embassy to bring a FACT-B Conference to Scripps.

Join us on May 29th at the Seaside Forum to explore "Deep-Ocean Biodiversity Challenges in the 21st Century"



Speakers include:

- Dr. Anne Larigauderie- Executive Secretary of The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES)
- Dr. Jean-François Silvain- President of the Foundation for Research on Biodiversity (FRB)
- Dr. Lisa Levin (Professor, Scripps Institution of Oceanography)
- Dr. Doug Bartlett (Professor, Scripps Institution of Oceanography)
- Dr. Stuart Sandin (Director CMBC at Scripps Oceanography, moderator)

May 29th | Scripps Seaside Forum | 5:00- 8:00 PM

The session will include talks by each speaker, a panel discussion, and a reception to follow. Please join us to discuss these biodiversity issues, ask questions, and meet our renowned international visitors.

RSVP

France in the United States

Consulate of France in Los Angeles



OPPORTUNITIES

Expedition 390/393 South Atlantic Transect

South Atlantic Transect Expeditions 390 and 393 are a multidisciplinary and

joint scientific ocean drilling project that aims to recover complete sedimentary sections and ~200 m of oceanic crust along a crustal age transect at ~31°S across the South Atlantic Ocean to: (1) investigate the history of low-temperature hydrothermal interactions between the aging ocean crust and the evolving South Atlantic Ocean; (2) quantify past hydrothermal contributions to global geochemical cycles; (3) investigate sediment and basement-hosted microbial community variation with substrate composition and age in the low energy South Atlantic Gyre seafloor biosphere; and (4) investigate the responses of Atlantic Ocean circulation patterns and the Earth's climate system to rapid climate change, including elevated CO₂ during the Cenozoic.



Opportunities exist for researchers (including graduate students) in all shipboard specialties, including but not limited to sedimentologists, petrologists, micropaleontologists, paleomagnetists, petrophysicists, geophysicists, inorganic and organic geochemists, and microbiologists.

[Deadline to Apply:](#) August 1, 2019

Marie Skłodowska-Curie Actions Fellowships Open



The Call for the European Union's Marie Skłodowska-Curie Actions (MSCA) Individual Fellowships are now open. Individual Fellowships support experienced researchers moving between Member States, Associated Countries and Third Countries ([like USA](#)) or between sectors for advanced research and innovation skills training.

If you have a PhD or a minimum of 4-years of full time research experience, and want to relocate to Europe, you can apply to these European fellowship opportunities and choose any country in Europe for up to 2 years. Researchers of all nationalities and

research fields are eligible, including social sciences, arts and humanities.

If you are a Canadian or US university/research institution and would like to host a researcher from Europe for up to 2 years fully funded through the MSCA - this is also your opportunity!

View Fellowships [here](#).

Deadline: 11 September 2019

INTERNATIONAL FUNDING

RESEARCH FUNDING

[Disaster Risk, Reduction and Resilience \(DR₃\)](#)

The DR₃ call responds to the growing need for assessment and reduction of disaster risk, collaborative co-design of resilience strategies with a breadth of stakeholders, and scientifically and technologically enhanced responses to disasters. In the context of this call, disasters are framed as extreme environmental events that negatively impact coupled human-natural systems. Each project team must consist of, at a minimum, natural scientists, social scientists and humanities, and stakeholders.

Proposal due: June 10, 2019

[Resilience in Rapidly Changing Arctic Systems](#)

The call aims at bringing together researchers and other expertise across the globe to develop proposals from integrated teams of scientists and stakeholders to address key areas of arctic resilience understanding and action. This collaboration of academic and non-academic knowledge systems constitutes a transdisciplinary approach that will advance not only understanding of the fundamentals of arctic resilience but also spur action, inform decision-making, and translate into solutions for resilience.

STUDENT FUNDING

[Fulbright Student Program](#)

Offers research, study and teaching opportunities in over 140 countries to recent graduates and graduate students. Students must apply through [UC San Diego's Graduate Division](#).

Intent to Apply: July 2, 2019

Deadline: September 5, 2019

[McCloy Fellowship](#)

The fellowships allow American and German experts to research and assess the most pressing topics on the transatlantic agenda while engaging with their counterparts overseas. The fellowships are designed to enhance broader understanding of key policy issues related to global trends while promoting networking across the Atlantic.

Deadline: May 31, 2019

[Paul & Daisy Soros Fellowship](#)

Supports New Americans, immigrants or the children of immigrants, who are pursuing graduate school in the United States.

Each Fellowship supports one to two years of graduate study in any field and in any advanced degree-granting

Proposal due: June 14, 2019

Climate, Environment and Health

Multilateral, inter- and transdisciplinary research projects will investigate where significant uncertainties exist that are barriers to action; address complex climate, ecosystem and health pathways to determine processes underlying causal links; and foster the use of scientific information and climate-related decision support tools to better inform planning and enhance resilience.

Deadline LOI: May 6, 2019

Proposal Deadline: July 23, 2019

Fulbright Scholarship

Offers nearly 470 teaching and research awards in over 125 countries. Opportunities are now available for university faculty and administrators.

Deadline: September 16, 2019

National Geographic: AI for Earth

NatGeo and Microsoft's AI for Earth program are partnering to support novel projects that create and deploy AI tools to improve the way we monitor, model, and ultimately manage Earth's natural systems for a more sustainable future. Topics broadly considered in climate change (inc extreme weather), agriculture, and water.

Deadline: October 9, 2019

NSF AccelNet International

Solicitation is designed to link U.S. research networks with foreign research networks to coordinate interdisciplinary approaches to large scale research challenges.

LOI Due: December 21, 2019

program in the U.S. Each award is for up to \$25,000 in stipend support, as well as 50 percent of required tuition and fees, up to \$20,000 per year, for one to two years. Deadline: November 1, 2019

SCAR Fellowship

This program is designed to encourage the active involvement of early-career scientists and engineers, social scientists and humanities researchers in Antarctic research, and to build new connections and further strengthen international capacity and cooperation in Antarctic research. Award is \$15,000. Deadline: July 17, 2019

BIOS Undergraduate Internships

The Bermuda Institute of Ocean Sciences (BIOS) is offering fully funded undergraduate fellowships through NSF's REU Program for fall 2019. Recipients have the opportunity to design and conduct intensive, hands-on research projects within several research areas including:

- Biology, chemistry, & physics of the open ocean
- Biology, physiology, & biochemistry of reef ecosystems
- Molecular biology of marine organism
- Environmental chemistry of Bermuda's atmosphere & inshore waters
- Effects & consequences of global environmental change

Funding includes return air travel to Bermuda, accommodation and meals and a competitive stipend.

Application Deadline: May 31, 2019

GLOBAL ENGAGEMENT SPOTLIGHT



Scripps has had a longstanding relationship with the Center for Scientific Research and Higher Education in Ensenada (CICESE). Our partnership first began back in 1973 when CICESE was founded. In the years that followed, our institutions saw numerous collaborations in atmospheric sciences, physical oceanography, and geophysics. In 1995, we signed our first collaboration agreement, which has remained in place ever since, making it Scripps' longest continuously running agreement.

In an effort to continue expanding our partnership, Scripps and CICESE are launching an annual seminar series to share our research, network with colleagues, and explore different avenues for collaboration. On May 3, 2019 the first annual seminar was held at CICESE in Ensenada. Scripps sent a delegation of 21 faculty, staff, students, and postdocs to the all day symposium. Two sessions were held, "Physical Biological Processes of the California Current", which featured Scripps faculty Sarah Gille, Drew Lucas, and Mati Kahru, and "Plate Boundary Processes" featuring talks by David Sandwell and Steve Constable. They were joined by 8 researchers from CICESE throughout the sessions.

In addition, a poster session was held highlighting the research of 21 graduate students and postdocs from Scripps and CICESE. The topics covered included biology, earth sciences, and oceans and atmospheric sciences. While many of our previous collaborations were discussed, the sessions also explored new areas of partnership including the CalCOFI and IMECOCAL biological monitoring programs, the Wirewalker program, oxygen minimum zones, and more.



Our collaborations with Mexican institutions are vitally important as our ecosystems are interconnected and the winds, oceans, and animals know no boundaries. Scripps' Director Margaret Leinen says of our collaboration with CICESE "in order for us to understand what is happening in La Jolla and San Diego, we have to understand what's happening [in Mexico]. We look at it as a community of people from two countries, focused on solving the same problems". To hear Director Margaret Leinen speak more about Scripps and CICESE's relationship, listen [here](#). We are looking forward to continuing our partnership, and invite you all to join us for the next seminar, which will be held at Scripps in the spring of 2020.



INTERNATIONAL POSTDOCS & JOBS

[Job | Director of Research at the Central Caribbean Marine Institute Inc. \(CCMI\), Cayman Islands](#)

CCMI is seeking a new director to develop and implement a strategy that will establish CCMI as a globally-recognized premier field research institute in the Caribbean. The new Director will lead a well-funded research program and establish a vibrant collaborative community working together to incubate new ideas to address contemporary issues facing coral reef ecosystems.

Application due: Ongoing, apply ASAP

[Postdoctoral Fellowships | The University of Jaén \(Spain\)](#)

Through the European Union's Marie Curie Fellowships, The University of Jaén in Spain has 37 fully funded postdoctoral fellowship positions available in the topics of chemistry, economic sciences, environmental sciences and geology, information science and engineering, life sciences, physics, social sciences and humanities and more.

Application due: June 14, 2019

[Postdoctoral Fellowship | Marine Microbial Ecology | Simons Foundation](#)

Support research on fundamental problems in marine microbial ecology. The foundation is particularly interested in applicants with training in different fields who want to apply their experience to understanding the role of microorganisms in shaping ocean processes, and vice versa, as well as applicants with experience in modeling or theory development. While these cross-disciplinary applicants will receive particular attention, applicants already involved in ocean research are also encouraged to apply. Must be at U.S. institution, but applicants may be citizens of any country.

Deadline: June 14, 2019

[Postdoctoral Fellowship | AUSTRIA: VIP2 - Vienna International Postdoctoral Program](#)

VIP2 is a three-year postdoctoral fellowship program that is open to candidates with backgrounds in biology, chemistry, physics, medicine, engineering, computer science, and bioinformatics. VIP2 fosters scientific independence by selecting people whose projects have the potential to develop into distinct research lines, and by providing access to scientific support facilities at their host institution and at the VBC Core Facilities. Application due: June 15, 2019

Postdoctoral Fellowship | Deep-Sea Bioresource Research Group | JAMSTEC

The successful applicant will be expected to develop clean chemical processes inspired by the unique physicochemical properties of deep-sea extreme environments and to use them to fabricate functional soft materials.

Deadline: June 24, 2019

Postdoctoral Fellowship | Deep-Sea Bioresource Research Group | JAMSTEC

The successful applicant will be expected to develop a high-temperature, high-pressure micro-flow reactor that can operate at conditions near the critical point of water (critical temperature 374°C, critical pressure 22.1 MPa) and use the reactor to fabricate functional soft materials.

Deadline: June 24, 2019

IIASA-NERC Collaborative Research Fellowships

The International Institute for Applied Systems Analysis (IIASA) and NERC Collaborative Research Fellowships program will provide three years of support for promising early career researchers to deliver challenging research and support the development of long-term collaborative working relationships between the UK and IIASA research communities.

Deadline: June 26, 2019

Job | Director of the Leibniz Institute for Baltic Sea Research – Warnemuende (IOW)

Experiences in leadership, science administration and management are required. The Director is responsible for the scientific management of the IOW and for representing the Institute externally and internally. In particular, impulses for research design and structures and the lead in the program budget of the IOW as well as constructive cooperation in the profile line Maritime Systems of the Interdisciplinary Faculty of the University of Rostock are expected.

Application due: June 30, 2019

Job | Senior Scientist | Deep-Sea Bioresource Research Group | JAMSTEC

Scientist will lead the exploration of marine genetic resources and the ecological role of microbial ecosystems, such as the impact of microbial functions on marine geochemical cycles, the relationship between the global ocean circulation and biogeography, and viral diversity, function, and evolution. This senior scientist or senior technical scientist is expected to lead both the basic and applied sciences described above and to promote collaborative, innovative projects with international and domestic research institutes, universities, and companies using the JAMSTEC database.

Deadline: July 5, 2019

The German Chancellor Fellowship

The Alexander von Humboldt Foundation is searching for the leaders of tomorrow – from Brazil, China, India, Russia, and the USA. The German Chancellor Fellowship offers you an opportunity to take the next career step in Germany – irrespective of your field of work. In order to apply, develop your own project idea and find the host of your choice to mentor you. Once your host has confirmed, you can apply for a fellowship.

Application due: September 15, 2019

Photos courtesy of Brandi Bangle and CICESE Communications.

If you are a researcher, faculty member or student and you would like your international work featured in our next newsletter, email us [here](#).



UC San Diego

To subscribe to Scripps Oceanography's International email listserv, click [here](#).