

# Challenger Wave



Monthly newsletter of the Challenger Society for Marine Science (CSMS)

## NEWS

### **Sustainability and skills are priorities for the maritime sector, says new President of the IMarEST**

Sustainability, decarbonisation, skills, and workforce health are among the top priorities for the maritime sector in the coming years, according to Alastair Fischbacher FIMarEST, who took up the role of 119th President of the Institute of Marine Engineering, Science and Technology (IMarEST) on the 24th March.



*Alastair Fischbacher, President of the Institute of Marine Engineering, Science and Technology.*

Alastair Fischbacher, explains: "Sustainability is a key issue that we must work on together now with some urgency. Creating a sustainable future for everyone is going to continue to evolve and expectations of the industry will change over time, requiring a process of continuous adaptation, improvement, skills development, as well as ensuring we achieve milestones and goals."

It is with this in mind that Alastair plans to promote sustainability as a connecting and enabling factor across the Institute's work over the coming year. He adds: "Being elected as the 119th president of the IMarEST is an enormous honour. The Institute has many expert members across the globe on topics ranging from marine plastics, autonomous vessels, the human

element, decarbonisation, aquaculture to mammal welfare; the depth of knowledge and the drive to make a difference is remarkable. Our members are building sustainability into the fabric of what we all do and are helping to guide, educate and articulate the integration of sustainability within our respective sectors."

Having started his career as a Master Mariner, Alastair has been involved in ship and cargo chartering and operations, coal marketing, coal mine acquisition in Colombia, coal terminal development, alternative fuels, and ship building and operation. He has been chair of the World Ocean Council, Rightship and the Sailors' Society and was involved with the founding of the Sustainable Shipping Initiative of which he is co-chair.

Alastair is particularly interested in the role of technology in improving performance, reliability and safety. He explains: "The human element aspect has long been a particular interest, as has the welfare and conditions for seafarers. As we head towards autonomous vehicles, there will always be a role for seafarers whether it is working on the legacy systems on board vessels or developing and operating the leading-edge technologies of the future. It is vital therefore that we ensure those in the profession are given access to ongoing skills development. I believe that we must also aim to increase the visibility of the maritime industry, which despite the increased volumes of cargo and the numbers of ships, is still pretty invisible until an incident occurs. It's important to showcase and highlight developments, progress and ensure the industry is seen as a respected part of global society."

Alastair will hold the position of IMarEST President for one year. He succeeds Kevin Daffey. Martin Shaw, current co-chair of the Institute's Human Element special interest group, is President Elect.

### Call for Papers: DSR-II Special Issue on IMBeR West Pacific Symposium

The IMBeR West Pacific Symposium, 'Changing West Pacific Ocean: Science and Sustainability', was held between 22nd-25th November 2021 in Shanghai. This online event drew more than 900 participants and more than 160 presentations to provide new scientific observation results and perspectives on the changing marine biosphere in the West Pacific Ocean and its neighboring Indian and Southern oceans. It also brought many notable success stories about how scientific research activities empower us to cope with changing oceans due to global warming and harness the ocean's wealth sustainably. The symposium topics covered coastal blue carbon, coral reefs, dried small fish, ecosystem-social interactions in the coastal sea, marine biogeochemistry and biodiversity in the Indo-Pacific Region, marine-extreme events, oceanic top predators, tropical ocean ecosystem, and ocean interventions. It forged a camaraderie amongst the scientists and stakeholders interested in the West Pacific and its neighboring oceans from more than 70 countries.

We are delighted to announce that the Deep-Sea Research II special issue, two volumes, stemming from the IMBeR West Pacific Symposium are under development. All presenters at the symposium are kindly entitled to submit manuscripts for the special issue. The manuscripts generated through/by/from/during the West Pacific Symposium are all welcomed according to the IMBeR publication policy. If you have developed manuscripts that fit into the Symposium over the course of time and are interested in submitting ones, please follow the submission guidelines [here](https://imber.info/wp-content/uploads/2022/03/Special-Issue-guidelines-for-IMBeR-WPS-V2.pdf), [imber.info/wp-content/uploads/2022/03/Special-Issue-guidelines-for-IMBeR-WPS-V2.pdf](https://imber.info/wp-content/uploads/2022/03/Special-Issue-guidelines-for-IMBeR-WPS-V2.pdf), or contact IMBeR IPO-China ([imber@ecnu.edu.cn](mailto:imber@ecnu.edu.cn)); deadline 26th May 2022.

### The Frederik Paulsen Arctic Academic Action Award 2022

Action-oriented scientific initiatives to fight climate change are celebrated with this prestigious Award. Winners receive 100,000 Euros, present their winning projects at the Arctic Circle Award Ceremony, attend and honorary reception and dinner, and have the opportunity to Implement the projects through the UArctic Network. The nomination deadline is 17th May 2022, [www.arcticcircle.org/frederik-paulsen-arctic-](http://www.arcticcircle.org/frederik-paulsen-arctic-)

[academic-action-award](#).

The Award is linked to the name of Frederik Paulsen who for decades has been a strong promoter of Arctic and Antarctic research and cooperation as well as being a patron and a crucial supporter of many Arctic endeavours which have facilitated the cooperation between experts and scientists from many nations. Frederik Paulsen has also demonstrated strong respect for the culture and the livelihood of indigenous peoples. His support for the Arctic Circle and the UArctic is also a contribution to our success. The Award will serve to promote and raise awareness of promising projects which address climate change through concrete actions and plans.

### New European Glider Service Centre announced

Working in partnership with Teledyne Marine, the National Oceanography Centre announced a new European Glider Service Centre at their Southampton, UK headquarters, which will offer an official service, support and repair facility for Teledyne Slocum Gliders.



Huw Gullick, Associate Director of NOC Innovations Ltd, said, "Our new NOC Glider Service Centre builds on years of expertise from servicing our own underwater glider fleet, part of the largest autonomous vehicle fleet in Europe, to offer a commercial service incorporating our own in-house Calibration Laboratory and Pressure Testing Facility." For more information, visit, [noc.ac.uk/news/noc-teledyne-marine-announce-new-european-glider-service-centre-partnership-o2022](https://noc.ac.uk/news/noc-teledyne-marine-announce-new-european-glider-service-centre-partnership-o2022).

### The NOC leads ground-breaking carbon capture research

The NOC has led a study to investigate gaps in knowledge of how ocean life helps store

atmospheric carbon dioxide, otherwise known as the biological carbon pump. The study, published in *Global Biogeochemical Cycles*, [doi.org/10.1029/2021GB007101](https://doi.org/10.1029/2021GB007101), found that seasonality plays an important role in keeping carbon out of the atmosphere.



A variety of marine copepods who may play an important role in the seasonality below the surface. Image credit: D. Mayor et al. (2020). *Bioessays*, [doi.org/10.1002/bies.202000149](https://doi.org/10.1002/bies.202000149)

Scientists at the NOC used a model that simulates the global ocean ecosystem to explore how seasonal variation in the flux of dead organisms and waste material sinking to deeper depths affects the ocean's ability to store carbon. For more on this story visit, [noc.ac.uk/news/noc-leads-ground-breaking-carbon-capture-research-twilight-zone](https://noc.ac.uk/news/noc-leads-ground-breaking-carbon-capture-research-twilight-zone).

## VIEWS

### University of Plymouth and Sonardyne collaborate to advance development of marine monitoring technology

The University of Plymouth and marine technology company Sonardyne have agreed a strategic partnership to drive innovation within the UK's growing marine robotic and autonomous systems sector. The partnership will advance ocean data gathering technologies and platforms by leveraging the University's academic resources and research facilities, Sonardyne's leading acoustic and inertial navigation technologies, and the marine proving area Smart Sound Plymouth.

Under the new agreement, the partners will work together to evaluate and develop emerging

technologies on the university's fleet of crewed and uncrewed surface and underwater platforms, all underpinned by a suite of Sonardyne's technologies. This will include testing and evaluation onboard uncrewed systems loaned to the University by the Royal Navy, to support its research and development around maritime autonomous systems capabilities.

The partnership will help establish closer working relationships between the University and Sonardyne, including enabling undergraduate and postgraduate students to participate in the testing of cutting-edge equipment, as well as highlighting future career opportunities.



Crew from Sonardyne and the University of Plymouth marked their partnership agreement at last week's Oceanology International event in London. Pictured are (L-R) Tom Rooney, from Sonardyne, Steve Rice, Alex Nimmo Smith and Kevin Forshaw, from the University of Plymouth, Geraint West and Duncan Rigg from Sonardyne.

The initial three-year collaboration will also explore funding opportunities for joint research in areas of mutual interest, including ocean exploration, hydrography, ropeless fishing, offshore renewable energy and defence. In addition, it will further the University's global reputation for marine research and teaching, with Plymouth ranked 1st globally linked to United Nations' Sustainable Development Goal number 14: life below water in the Times Higher Education Impact Rankings 2021.

While Sonardyne has worked closely with the University on a range of projects over many years, this new agreement aims to bring a more coordinated and targeted approach to fields of mutual interest. Kevin Forshaw, Director of



Industrial and Strategic Partnerships in the University's Faculty of Science and Engineering, said: "We are delighted to be deepening our collaboration with Sonardyne. The company has long-established connections with the city of Plymouth, and this new partnership will allow us both to push the boundaries of new technological development for remote and sustained ocean observation. It also ensures Plymouth remains at the forefront of driving innovation in high-growth market applications for the rapidly growing global ocean economy."

Geraint West, Head of Science at Sonardyne, added: "We have a long heritage in Plymouth and our roots in this historic naval city date back to 1982, 40 years ago exactly. We have also based our trials and training centre in the city since 1993. Throughout those years, we've valued our role in supporting and collaborating with academia, so we're delighted to be deepening our relationship with the University of Plymouth and in turn supporting the UK's maritime autonomous cluster in this area."

## SALTS

### NOC return from trialling state-of-the-art sensors

Engineers and scientists from the NOC and the University of Southampton have returned to Southampton after the completion of science cruise DY149 involving Autonomous Underwater Vehicle sensor trials, on board the RRS *Discovery*.



This final trial, in waters off the southwest coast of the UK, paves the way for low-emission oceanographic science and is part of the wider

Oceanids programme. It saw the team pilot the latest version of the NOC's Autosub Long Range (ALR) Autonomous Underwater Vehicle (AUV), equipped with a range of novel sensors to demonstrate their capability for future autonomous missions anywhere in the ocean. For more information, visit [noc.ac.uk/news/trials-new-autonomous-underwater-sensors-platforms-underway](http://noc.ac.uk/news/trials-new-autonomous-underwater-sensors-platforms-underway).

## CALENDAR

### 9th–12th May 2022: Fourth ICES PICES Early Career Scientist Conference

*St. John's, Newfoundland, Canada*

Hosted by Fisheries and Oceans Canada (DFO), [www.dfo-mpo.gc.ca/index-eng.html](http://www.dfo-mpo.gc.ca/index-eng.html), The International Council for the Exploration of the Sea (ICES), [www.ices.dk/about-ICES/Pages/default.aspx](http://www.ices.dk/about-ICES/Pages/default.aspx), and North Pacific Marine Science Organization (PICES), [meetings.pices.int](http://meetings.pices.int), welcome you to the fourth conference of this series, where early career scientists will have the opportunity to meet colleagues from around the globe who share similar interests and an enthusiasm to improve equality and diversity in marine science. The conference aims to foster the development of contacts, collaborations, and associations among early career scientists that will persist for decades and to establish personal and institutional networks that will help to advance our understanding of the marine environment.

The scientific sessions will be organized around the following themes:

#### Ecosystem and ocean processes

1. Biodiversity and ecosystem functions
2. Understanding food webs and biogeochemical cycles
3. Developments in taxonomy and systematics
4. Connecting biological, oceanic, and atmospheric processes of different scales

#### Inclusive, interdisciplinary, and transparent ocean sciences

1. Human–ocean interactions
2. Science, management, and policy for a sustainable and productive Blue Economy
3. Science communication, inspiration, and engagement



## Emerging technologies and techniques for ocean science

1. Using remote and *in situ* technologies to inform marine science
2. Advances in techniques and technologies: from 'omics to gear modifications to data analysis
3. Towards open-source science: freely available methods and data in the marine research

Visit the ECSC4 website, [www.ices.dk/events/symposia/ecsc4/Pages/default.aspx](http://www.ices.dk/events/symposia/ecsc4/Pages/default.aspx), to read more about the conference and the theme sessions and stay up-to-date by following us on Twitter @ECSC\_4 for announcements of keynote speakers, the programme, and important dates. Registration and call for abstracts will open in.

## 16th–20th May 2022: 53rd International Liège colloquium on Ocean Dynamics, and GO2NE oxygen conference

Liège, Belgium

Oxygen is critical to the health of the planet. It affects the cycles of carbon, nitrogen and other key elements, and is a fundamental requirement for marine life from the seashore to the greatest depths of the ocean. Nevertheless, de-oxygenation is increasing in the coastal and open ocean. This is mainly the result of human activities that are increasing global temperatures (CO<sub>2</sub>-induced warming) and increasing loads of nutrients from agriculture, sewage, and industrial waste, including pollution stemming from power generation using fossil fuels and biomass.



The 53rd Liege colloquium will investigate new developments and insights related to de-

oxygenation in open and coastal waters. It is jointly organized with the Global Ocean Oxygen Network (GO2NE) and is a contribution to the Global Ocean Oxygen Decade (GOOD) program endorsed by IOC-UNESCO. The following sessions are considered:

- De-oxygenation: understanding causes and attributing changes
- Assessing open ocean and coastal de-oxygenation variability and trends
- De-oxygenation: observing and modelling
- De-oxygenation and ocean life
- De-oxygenation and co-stressors: understanding, monitoring and mitigating deoxygenation in the context of multiple stressors
- Ocean De-oxygenation - how the past can inform the future?
- Microbial Communities and their controls on biogeochemical feedbacks and interactions
- De-oxygenation, water quality and the climate system: understanding processes and feedbacks and developing actionable indicators
- De-oxygenation: ecosystem services, economic and societal consequences.
- Confronting de-oxygenation and its impacts: translating science to management and policy

Further details (scientific committee, registration, deadlines, venue etc...) are available on the web site <https://www.ocean-colloquium.uliege.be/>.

## 23rd–27th May 2022: The General Assembly 2022 of the European Geosciences Union (EGU)

Vienna, Austria

The EGU General Assembly 2022 will bring together geoscientists from all over the world in one meeting covering all disciplines of the Earth, planetary, and space sciences. The EGU aims to provide a forum where scientists, especially early career scientists, can present their work and discuss their ideas with experts in all fields of geoscience.

In view of increasing event restrictions in Austria, currently limiting events to 2000 people, that we anticipate will be relaxed later in the year and attendee concerns over the high infection rates in Europe, the EGU has had to make some important changes to our plans for this year's General Assembly. Firstly, we have had to move

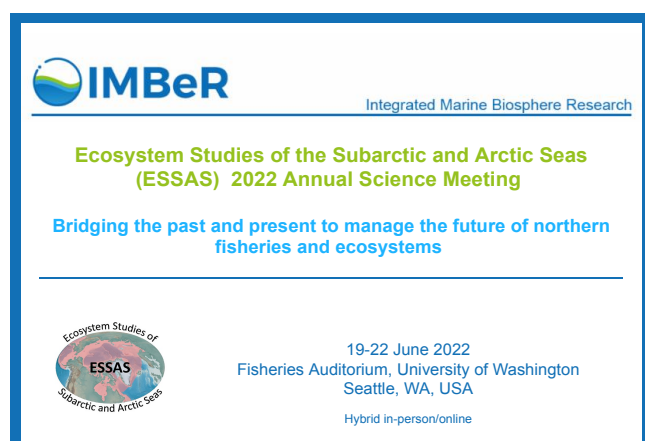
the date of the meeting to May. Moving the meeting back closer to summer months means that infection rates are likely to be lower and the Austrian rules around large events will be more flexible.

Secondly, we have had to change the format of the meeting, so that all presentations will now be 'short orals ([egu22.eu/about/provisional\\_meeting\\_format.html](https://egu22.eu/about/provisional_meeting_format.html))', that can be delivered and viewed either online or in person. This change is a result of restrictions on having a large number of non-seated people in an enclosed space, like a poster hall, which has meant that we can no longer offer the poster or vPICO options in 2022. We are also creating opportunities for both online and in-person audience participation with this format, that we hope will maintain the accessibility that we were aiming to achieve with this, our first step towards a fully hybrid meeting.

For more information about the changes to the General Assembly please read the full news announcement ([//www.egu.eu/news/886/important-update-egu22-change-of-date-and-format/](https://www.egu.eu/news/886/important-update-egu22-change-of-date-and-format/)) or the updated FAQ [egu22.eu/about/egu22\\_faqs.html](https://egu22.eu/about/egu22_faqs.html).

The assembly is open to the scientists of all nations. The entire congress centre is fully accessible by wheelchairs. For more information regarding the programme and registration please visit [egu22.eu/](https://egu22.eu/).

**19th–22nd June 2022: Ecosystem Studies of the Subarctic and Arctic Seas (ESSAS) 2022 Annual Science Meeting**  
*Washington, Seattle, USA*



**IMBeR**  
Integrated Marine Biosphere Research

**Ecosystem Studies of the Subarctic and Arctic Seas (ESSAS) 2022 Annual Science Meeting**

**Bridging the past and present to manage the future of northern fisheries and ecosystems**

**ESSAS**  
Ecosystem Studies of the Subarctic and Arctic Seas

19-22 June 2022  
Fisheries Auditorium, University of Washington  
Seattle, WA, USA  
Hybrid in-person/online

High-latitude marine ecosystems are undergoing rapid changes due to increasing anthropogenic carbon emissions, with potentially important impacts on living marine resources and on the people dependent on these resources. These systems, particularly the gateways to the Arctic, have undergone large changes in the past between periods of cooler and warmer conditions, as evident in the paleo-ecological record. The 2022 ESSAS Annual Meeting aims to bridge perspectives from paleo-ecology, contemporary ecology, and human-environment interactions to inform the future management of fisheries and other living marine resources. The meeting will encompass a shared session with the [Oceans Past Initiative](#).

Sessions include:

- Interdisciplinary collaboration across the marine sciences and humanities: Past, present and future
- The past, present and future of codfish population in the subarctic and Arctic
- Building on the past to predict the future: scenarios, models and interdisciplinary approaches to predicting future marine conditions and fisheries

Submit your abstract by 1 March!

[Learn more](#)



[imber@dal.ca](mailto:imber@dal.ca)

## 4th–8th July 2022: VIII International Symposium on Marine Sciences

*Las Palmas de Gran Canaria, Spain*

A number of Conferences will take place under the umbrella of the Marine Sciences Week in Las Palmas de Gran Canaria, these are:

- International Symposium on Marine Sciences (ISMS 2022)
- International Symposium on Artisanal and Recreational Fishing in Islands Systems (ISARFIS)
- Expanding Ocean Frontiers (EOF)
- Maritime Spatial Planning (MAPSIS22)
- Iberian Seminar on Marine Chemistry (SIQUIMAR)
- Marine Litter (BAMAR)
- International Conference on Modern and Fossil Dinoflagellates (DINO12)



The ISMS 2022 will be a face to face event and online event. All sessions will also be available online 48 hours after they take place. The access to the recordings will be accessible until August 1st at 12:00 (Canary Islands time). The abstracts submission is already open. You can download

the templates and submit your abstracts through the abstract form on the web page, [isms-canarias.com/](https://isms-canarias.com/).

### **27th–29th August 2022: Arctic Circle Greenland Forum**

*Nuuk, Greenland*

Greenland in the global Arctic, climate and prosperity, geopolitics and progress, organised in association with Naalakkersuisut, the Government of Greenland.

The Forum will be held at the Katuaq Cultural Centre in Nuuk. Governments, universities, research institutions, organizations, associations, companies and other partners are invited to submit proposals for Sessions to the Arctic Circle Secretariat. Submit your proposal before the 1<sup>st</sup> June by visiting [www.arcticcircle.org/proposal-guidelines-for-the-greenland-forum](https://www.arcticcircle.org/proposal-guidelines-for-the-greenland-forum). For more information, visit [www.arcticcircle.org](https://www.arcticcircle.org).



### **5th-8th September 2022: ECSA 59: Using the best scientific knowledge for the sustainable management of estuaries and coastal seas**

*San Sebastian, Spain*

ECSA 59 will bring together a global multi-disciplinary community of researchers, educators and practitioners to address issues of outstanding importance in the science (both natural and social) and management of estuaries and coastal seas in this rapidly changing world.

We have had an excellent response to our call for abstracts and due to this high interest we have decided to extend the deadline for any late submissions to 29 April 2022. Please submit via our abstract submission system.

[www.challenger-society.org](https://www.challenger-society.org)

Main topics include:

Changing physical settings and processes  
Biogeochemical processes and fluxes at the land sea interface  
Shifting ecosystem structures and functions  
The human dimension: impact, management, governance

For our full list of topics and special sessions please visit the website at [www.estuarinecoastalconference.com/submit-abstract.asp](https://www.estuarinecoastalconference.com/submit-abstract.asp).

### **5th-9th September 2022: Challenger Society Biennial Meeting – celebrating the 150<sup>th</sup> anniversary of the Challenger Expedition**

*London, UK*

The Challenger Society is delighted to announce that the Challenger 150 Conference 2022 registration and abstract submission is now open. This is a once in a lifetime opportunity to have dinner in the spectacular surroundings of the Natural History Museum Hintze Hall, underneath 'Hope' the Blue Whale. Guests will be allowed to circulate the galleries including a new display of Challenger art and specimens in the Images of Nature gallery prior to the dinner.



Conference: 6th-8th September 2022

Side events: 5th and 9th September 2022

Hosted by the Natural History Museum and Imperial College, London, UK, the Challenger Society Conference will mark the 150th anniversary of HMS Challenger setting off on her round the world voyage. The meeting will be held in person at the Royal Geographical Society, Natural History Museum and Imperial College in South Kensington, London.

Challenger members are eligible for reduced registration rates by providing their membership number and membership type. You can login to



your account at, [www.challenger-society.org.uk/Members](http://www.challenger-society.org.uk/Members), to check this information prior to registering. If you encounter any issues regarding your Challenger membership please email [chelsey.baker@noc.ac.uk](mailto:chelsey.baker@noc.ac.uk). After registering for the conference, you will receive an email and form to submit an abstract.

Early bird registration closes 1st May  
Abstract submission closes 15th May  
Registration closes 1st July

The Conference web site is, [www.nhm.ac.uk/our-science/science-events/the-challenger-society-conference-2022-in-london.html](http://www.nhm.ac.uk/our-science/science-events/the-challenger-society-conference-2022-in-london.html). If you have any questions regarding the conference please email [challenger150@nhm.ac.uk](mailto:challenger150@nhm.ac.uk).

**19th-23rd September 2022: Open Science Conference on Eastern Boundary Upwelling Systems (EBUS): Past, Present and Future and the Second International Conference on the Humboldt Current System**

*Lima, Peru*



The meeting will bring together PhD students, early career scientists and world experts to understand, review, and synthesize what is known about dynamics, sensitivity, vulnerability and resilience of Eastern Boundary Upwelling Systems and their living resources to climate variability, change and extreme events. For more information, visit [www.ebus-lima2022.com/](http://www.ebus-lima2022.com/).

**5th-19th October 2022: Ocean Best Practices System (OBPS) Workshop VI**

*Virtual*

The OBPS announces that the Ocean Practices Workshop VI will take place virtually with plenaries on the 5th (opening plenary 1A), 6th (opening plenary 1B), and 19th (closing plenary) of October 2022 (each three hours long). Working Group sessions will meet in between, at times of their own choosing.

The Workshop will cover a broad range of topics proposed and selected by session leads and the workshop coordinators. For the plenaries, there

[www.challenger-society.org](http://www.challenger-society.org)

are two general themes: 1) Guiding technology evolution and use, and 2) Capacity development and sharing, with an emphasis on developing countries. Let us know if you are interested in participating, or in proposing a theme or session for a Working Group, by filling out the Interest to Participate short form at [docs.google.com/forms/d/e/1FAIpQLSc5MEiuWVNa5JXah47qoldhKrDopmcY2bEzBcVu2MLrAATHJQ/viewform](https://docs.google.com/forms/d/e/1FAIpQLSc5MEiuWVNa5JXah47qoldhKrDopmcY2bEzBcVu2MLrAATHJQ/viewform).

Please circulate this invitation to colleagues who may be interested in focused discussions; those who may want to learn more about developing, curating and sharing Ocean Practices; and to help plan the next three to five years of OBPS and its Ocean Decade programme: "OceanPractices". Should you have any questions, please e-mail us at [info@oceanbestpractices.org](mailto:info@oceanbestpractices.org). We look forward to hearing from you, Frank Muller-Karger, Chair, OBPS Workshop VI; On Behalf of the Ocean Best Practices System Steering Group

**13th-16th October 2022: Arctic Circle Assembly**

*Reykjavik, Iceland*

Governments, universities, research institutions, organizations, associations, companies and other partners are invited to submit proposals for Sessions to the Arctic Circle Secretariat. Arctic Circle, [www.arcticcircle.org](http://www.arcticcircle.org), provides an open, democratic platform for discussion and cooperation on Arctic Affairs.



The submission deadline is May 15th 2022, [www.arcticcircle.org/assemblies/2022-arctic-circle-assembly-call-for-proposals](http://www.arcticcircle.org/assemblies/2022-arctic-circle-assembly-call-for-proposals). Participation will be granted based on Session topic, area of focus, goals, and room availability at Harpa Concert Hall and Conference Center.

Attended by more than 2000 participants from

over 60 countries, the Assembly is the largest international gathering on the Arctic. Every year, participants can attend over 150 Sessions, receptions, art exhibitions, film screenings and more with various networking opportunities provided throughout the Assembly days.

**8th-10th November 2022: 12th MASTS Annual Science Meeting**

*Scotland*

Save the date for the Marine Alliance for Science and Technology Scotland (MASTS), more details soon.

**27th–30th November 2022: 2nd Springer MedGU Annual Meeting 2022**

*Marrakech, Morocco*

The Mediterranean Geosciences Union, [association.medgu.org/](http://association.medgu.org/), in collaboration with Springer and Ibn Tofail University (Morocco) organizes the 2nd MedGU. Visit our website ([www.medgu.org](http://www.medgu.org)) to learn more about the event.



On this occasion, we are pleased to invite you to take part in the conference (in-person or virtually) and share/discuss your latest research findings. The MedGU Annual Meeting is one of the largest international geoscience meetings (200 attended in-person the MedGU-21 in Istanbul and 250 online).

The MedGU Annual Meeting aims to provide a forum where geoscientists, especially early career researchers, can present and discuss their findings with experts in all fields of geosciences. It will feature talks and panels covering a diverse range of geoscience and geoscience-society topics. Abstract submissions (max. 350 words) will be accepted until **20th May 2021**.

The MedGU-22 encourages submissions of research works from all regions of the world. The MedGU-22 Proceedings will be published in Springer ASTI Series (indexed in Scopus & SCImago). Contact us, if you need more information, [contact@medgu.org](mailto:contact@medgu.org).

---

The CSMS email address is [info@challenger-society.org.uk](mailto:info@challenger-society.org.uk). Contributions for next month's edition of Challenger Wave should be sent to: [john@vectisenvironmental.com](mailto:john@vectisenvironmental.com) by the 29th April.

---

# ***JOBS and OPPORTUNITIES***

## **Senior Research Associate in Physical Oceanography, University of East Anglia (UEA):**

**REF: RA1967**

**£34,304 to £40,927 per annum, pro rata**

Applications are invited for the post of Researcher in Physical Oceanography to undertake research on multidisciplinary oceanographic processes on the Antarctic continental shelf in the Ross Sea, Antarctica. You will work with Professor Karen Heywood on the NERC- and NSF-funded project Predators to Plankton: Biophysical Controls in Antarctic Polynyas. Our focus will be on the physical oceanographic processes underpinning the ecology from krill to penguins.

You will participate in the design and delivery of the field campaign using ocean gliders. You will analyse the resulting observations and collaborate with the US scientists in the project to compare these with current understanding and/or numerical model output. You will lead publication of the results in international peer reviewed journals.

The research will be based within the Centre for Ocean and Atmospheric Sciences (COAS) at UEA, Norwich, UK. You will join the interdisciplinary UEA Ocean Glider group, [www.ueaglider.uea.ac.uk](http://www.ueaglider.uea.ac.uk), that includes faculty, postdoctoral researchers and PhD students using ocean gliders to evaluate processes in the global oceans.

You should have (or be soon to gain) a PhD in physical oceanography and a publication record showing evidence of international quality. You should have excellent oral and written communication skills, with experience of presenting results at conferences either in person or online.

This post is available to start between 1st September 2022 and 1st January 2023 on a fixed-term period for 18 months. The post can be full-time or part-time.

Closing Date: Monday 9th May 2022

Information and application forms at [myview.uea.ac.uk/webrecruitment/pages/vacancy.jsf?vacancyRef=RA1967](http://myview.uea.ac.uk/webrecruitment/pages/vacancy.jsf?vacancyRef=RA1967). Applicants must apply using the online application form.

## **Marine biogeochemistry assistant professor position in Utrecht**

Utrecht University has started a procedure to hire a tenure-track assistant professor in the general domain of Marine Biogeochemistry. While the focus of research can range from geomicrobiology, marine ecosystem science, biogeochemistry, chemical oceanography to marine chemistry, we are specifically interested in a new colleague interested to strengthen our experimental and observational research programs. The following link gives more information, [www.uu.nl/en/organisation/working-at-utrecht-university/jobs/assistant-professor-in-marine-biogeochemistry-08-10-fte](http://www.uu.nl/en/organisation/working-at-utrecht-university/jobs/assistant-professor-in-marine-biogeochemistry-08-10-fte).



There are jobs on the SAMS web site

[www.sams.ac.uk/vacancies/](http://www.sams.ac.uk/vacancies/)

## Vacancies - Work at SAMS

### **Environmental Consultant / Project Manager**

Full Time / Permanent | Closing Date 15/04/2022 | [Details](#)

### **Education Administrator – Postgraduate Level**

Part Time / Fixed Contract | Closing Date 22/04/2022 | [Details](#)

There are jobs on the IMBER web site

<http://www.imber.info>



Integrated Marine Biosphere Research

## Jobs and opportunities

### New

- Early Career Wetland Carbon Scientist, Silverstrum Climate Associates. Open until filled; **apply now**
- Postdoc: Ocean biophysical modeling, Princeton University. Applications considered as they are received; **apply now**
- Global Oceans Lead Scientist, WWF, location flexible. No deadline given; **apply now**
- Program Management Director - People and Culture, Ocean Conservancy, Washington, DC, USA. No deadline given; **apply now**
- Social Responsibility Expert/Scientist, Ocean Outcomes, US. Open until filled; **apply now**
- Postdoc: Physical Oceanographer, WHOI, Woods Hole, MA, USA. Open until filled, with reviews beginning on 1 April; **apply now**
- PhD: Nutrient sources and transport in South Georgia fjords (Subantarctica), AWI, Bremerhaven, Germany. Apply by **15 April**
- Tenure-Track faculty positions: Marine phytoplankton, University of South Florida. apply by **15 April**
- Plankton Ecologist, Centre for Environment, Fisheries and Aquaculture Science, UK. Apply by **18 April**
- Global Ecosystem for Ocean Solutions Program Director, Ocean Vision, Atlanta, Georgia, USA. Apply by **18 April**
- Scientist Production Grade A-C: Coastal and Marine Ecosystem Health research, DFFE, Cape Town, South Africa. Apply by **19 April**
- Postdoc: Climate impacts on Northeast Atlantic fisheries resources, IMR, Norway. Apply by **20 April**
- Research Associate: Urban Wetland Ecology/Nature-based Solution, University of Glasgow, Scotland. Apply by **21 April**
- Research Assistant and Coordinator: Indigenous Governance and Gender Research, Schulich School of Law, Dalhousie University, Halifax, NS, Canada. Apply by **21 April**
- Asia Fishery Improvement Manager, Help Ocean Outcomes (O2), Taiwan. Apply by **22 April**
- Social Innovation officer, VLIZ, Belgium. Apply by **24 April**
- PhD: Marine ecology and/or fisheries science, IFREMER, France. Apply by **25 April**
- Postdoc: Marine microbiology, Wolfson Atmospheric Chemistry Laboratories, University of York, UK. Apply by **27 April**
- Canada Research Excellence Chair: Ocean Observations of the Climate System, University of Victoria, Canada. Apply by **28 April**
- Postdoc: Earth system modelling, University of Bern, Switzerland. Apply by **29 April**
- Consultant: Development of a concept for a graduate programme on Ocean Governance in the West Indian Ocean, West Indian Ocean Governance and Exchange Network. Apply by **30 April**
- BIOS Summer courses: coral reef ecology and research diving methods. Apply by **30 April**
- Director of Research, Project Versa, remote working. Apply by **30 April**
- South African Fullbright Foreign Student Program: grants for South African university students to pursue pos-graduate studies at a university in the US. Apply by **1 May**
- Postdoc: Oceanography, National Centre for Atmospheric Research. Apply by **1 May**
- PhD: Eddies as hotspots of marine biogeochemical extreme events, University of Bristol, England. Apply by **2 May**
- Postdoc: Math/stats methods to analyse the value of monitoring information to protect the Antarctic, Brisbane, Australia. Apply by **2 May**
- Postdoc: Ocean, Economy, Livelihoods, Schulich School of Law, Dalhousie University, Halifax, NS, Canada. Apply by **10 May**
- PhD: Fisheries science, Memorial University of Newfoundland, Canada. Apply by **15 May**
- Future Earth Early-Career Fellowship. Apply by **15 May**

[imber@imr.no](mailto:imber@imr.no)