

# Challenger Wave



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

## NEWS

### Arctic Circle Forum in Seoul, South Korea

Together with the Korea Maritime Institute, the Korea Polar Research Institute and the Ministry of Foreign Affairs of the Republic of Korea, the Arctic Circle will co-host a forum over December 7th-8th in Seoul, South Korea. Held under the title "Asia Meets the Arctic: Science, Connectivity and Partnership," the Forum will take place at the Lotte Hotel in Seoul.

Participants will have the opportunity to attend a guided study visit to the Korea Polar Research Institute. The Forum will be held just prior to Arctic Partnership Week in Busan (December 10th-14th), which participants will be able to attend as well. Program news and registration information will be published later in August. - **The Arctic Circle Secretariat**

### The history of physical and chemical oceanography in Kiel.

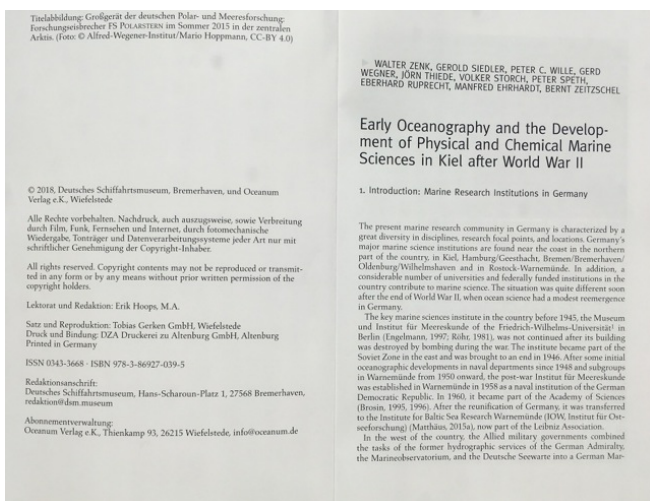
I have received a copy of a new monograph describing the development of primarily, physical and chemical oceanography, in Kiel, Germany.

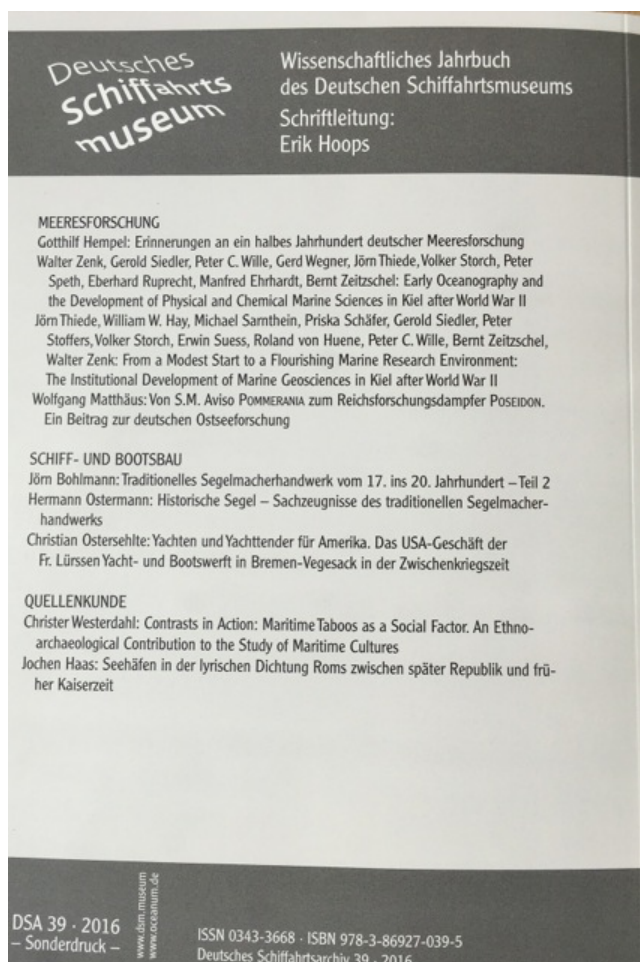
The book, (93pp) by Walter Zenk and co-authors, was inspired by the book "Of Sea and Ships and Scientists" describing the foundation of the National Institute of Oceanography (NIO) in the UK.



The details are shown on the inserted images, which also include details of two other monographs:

- 1) By Gotthilf Hempel on a half century of Germany oceanography (in German) and
- 2) by Jorn Thiede and co-authors on Marine Geosciences post WWII.





The books are produced by the Deutsches Schifffahrts Museum in Bremerhaven <https://www.dsm.museum/> from whom the books may be purchased. - **John Gould**

## VIEWS

### Marine Measurement Forum #62 at Fugro, Wallingford on 17<sup>th</sup> October 2018

The Steering Group for the non-profit making Marine Measurement Forum (MMF) series of twice yearly, one day networking seminars is delighted to announce host, date and contact details for the upcoming MMF62. The event is scheduled for Wednesday 17<sup>th</sup> October 2018 and will be hosted by Fugro at their Wallingford, Oxon headquarters.

Readers are urged to register their interest in attending the event as soon as possible and join their peers at what is always a great opportunity to hear all about latest developments and technologies in the Marine Measuring world. To

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register interest in attending the event please visit [https://www.fugro.com/media-centre/events/event/2018/10/17/default-calendar/marine-measurement-forum-\(mmf\)](https://www.fugro.com/media-centre/events/event/2018/10/17/default-calendar/marine-measurement-forum-(mmf)).

Readers who would like to offer a presentation at MMF62 should, in the first instance, contact Chris Janson at Fugro via [c.janson@fugro.com](mailto:c.janson@fugro.com)

### Preparing for the 2019 EGU general assembly

If you enjoyed a session this year at EGU, why not propose something similar for next year and perhaps offer to convene it. If you thought something was missing this year, why not propose it. If your session was successful, please propose it again. Note that no sessions are carried over now !

The next EGU General Assembly (EGU2019) will be held at the Austria Center Vienna (ACV) from 7th to 12th April 2019. We hereby invite you, from now until 6th Sep 2018, to take an active part in organizing the scientific programme of the conference. You can do this at: <https://meetingorganizer.copernicus.org/EGU2019/provisionalprogramme>. Please use this opportunity to suggest sessions with conveners and descriptions.

In 2019, for the first time, the skeleton programme consists only of the programme groups and their sub-programme groups. The programme groups do not show sessions from last year. This means that all session proposals need to be submitted, including those on classical topics in the community. The deadline for suggesting Union Symposia and Great Debates is 15th August 2018. Please see the guidelines [https://www.egu2019.eu/guidelines/us\\_and\\_gdb\\_guidelines.html](https://www.egu2019.eu/guidelines/us_and_gdb_guidelines.html) for more information.

We strongly encourage convener teams to reflect multiple countries and institutes, different career stages, especially including early career scientists, and gender diversity. We ask for a minimum of two active conveners (1 convener and 1 co-convener) with a maximum of five conveners (1 convener and 4 co-conveners) per session. A new guideline for 2019 is a maximum of three convenerships per researcher in total, of which one should be as lead convener. We would like to point to the presentation rules for conveners [https://egu2019.eu/guidelines/convener\\_guidelines.html#solicited](https://egu2019.eu/guidelines/convener_guidelines.html#solicited). Please check with all conveners that they agree to take part in

the proposed session. Please see the convener guidelines at: [https://www.egu2019.eu/guidelines/convener\\_guidelines.html](https://www.egu2019.eu/guidelines/convener_guidelines.html)

When making suggestions for Programme Groups (PG), explore <https://meetingorganizer.copernicus.org/EGU2019/provisionalprogramme> and place your proposal into the PG that is most closely aligned with the proposed session's subject area. Please avoid submitting session proposals that are similar to sessions already suggested. In such a case, it is possible to suggest modifications to an earlier session proposal. If the subject area of your proposal is strongly aligned with two or more PGs, co-organization is possible and encouraged between PGs. Only put your session proposal into ONE PG. You will be able to indicate PGs that you believe should be approached for co-organization.

EGU introduced the programme group Interdisciplinary Events (IE) in 2016 which is now renamed to Inter- and Transdisciplinary Sessions (ITS). ITS looks for links between disciplines in a coordinated and coherent effort, trying to create new approaches that would not be possible if handled separately. ITS highlights new themes each year and will also build themes from proposed sessions. If you plan to propose an Inter- and Transdisciplinary Session, please submit your proposal in programme group ITS and indicate other relevant programme groups for co-organization. For ITS sessions we kindly ask you to identify one other programme group that will become the scientific leader of the event. Accepted ITS sessions will be part of the session programme of the scientific leader in addition to the ITS programme. Please see the guidelines for more information at: [https://egu2019.eu/guidelines/its\\_guidelines.html](https://egu2019.eu/guidelines/its_guidelines.html)

From now until the 17th January 2019 you can apply for townhall meetings. Townhall meetings offer an active discussion platform that is open to all interested participants to inform them of new opportunities and initiatives. All townhall meetings will be scheduled from 19:00 to 20:00. Splinter meeting rooms can be booked for smaller, targeted discussion groups. Splinter meeting booking is open from 15th October 2018 to 1st March 2019.

The EGU2019 Programme Committee will take into account all suggested sessions and use

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these to compile the final session programme as the basis for the call-for-abstracts. Conveners of approved sessions will be asked to actively promote their sessions and the public will be invited to submit their abstracts. This will be announced by a separate email.

If you have questions about the appropriateness of a specific session topic, please contact the programme group chair and/or the officers for the specific EGU2019 programme group: [https://egu2019.eu/information/programme\\_committee.html](https://egu2019.eu/information/programme_committee.html). We look forward to receiving your suggestions. - **Katja Gänger and Karen J. Heywood**

## SALTS

### No news from sea this month I'm afraid

I know that this is a favourite section for many readers, where we get the inside information about life at sea, its thrills and spills. So please the next time you are at sea or carrying out any fieldwork, please remember that a simple paragraph or two will get you published here. – **Ed**

## CALENDAR

### 6th September 2018: NOC Business Breakfast meeting Southampton, UK



#### NOC Business Breakfast meeting Thursday 06 September

The next NOC Business breakfast meeting will take place at NOC Southampton on

Thursday 6 September 2018

Title: Accessing European markets, partners and technology

Presenter: Tim Benzie, Business Partnership Consultant

How Enterprise Europe Network can help connect you with new technology and business partners in Europe to grow your business, enhance your innovation and reach new markets.

There will also be an update from the 2017/18 Year of Autonomy events. This will include a review of the events held and opportunities for discussion on what the next steps might be.

#### Itinerary

8.30 am Registration, networking and breakfast

9.15 am Presentations begin

10.00 am Refreshments and networking continues

Tickets now available from Eventbrite: <https://www.eventbrite.co.uk/e/noc-marine-business-breakfast-tickets-48440123714>

## 10th-13th September 2018: 18th Biennial Conference of the Challenger Society

Newcastle upon Tyne, UK

Registration is now open for the 18th Biennial Conference of the Challenger Society for Marine Science: [conferences.ncl.ac.uk/challenger-2018/registration/](http://conferences.ncl.ac.uk/challenger-2018/registration/). For a list of sessions, or check for details and news please visit our website [conferences.ncl.ac.uk/challenger-2018/](http://conferences.ncl.ac.uk/challenger-2018/). We look forward to seeing you in Newcastle upon Tyne in September - **Dr Alan Jamieson**, Challenger Conference 2018: Organising committee chair.



The biennial Challenger conference attracts over 400 leading UK marine scientists and science managers. As well as showcasing cutting edge marine science and technology, the conference is noted for its training of young scientists and networking events, including a public lecture by an eminent authority on relevant societal marine issues.

### 2018 Mini-Expo

This year we are privileged to welcome as special keynote speaker, His Serene Highness Albert II, Sovereign Prince of Monaco - *The Prince Albert II of Monaco Foundation who will be present on the final day.*



The mini-expo will run over 3 days (10<sup>th</sup>, 11<sup>th</sup> and 13<sup>th</sup>) The conference normally rotates between the major UK marine research establishments, but 2018 sees the first visit to the University of Newcastle. The Venue is impressive and the exhibition space for sponsors is large, and co-located with the refreshments and close to posters and lecture rooms with good access for exhibitors.

The society is now the adhering body for the Scientific Committee on Oceanic Research (SCOR) providing yet more exposure for participating companies.

Sponsorship packages will give local, national and international companies the chance to support UK marine scientific research and the training of young marine scientists, whilst a targeted exhibition and careers fair will also enable companies to self promote and recruit new staff. Spaces will be limited so please book early.

Take this early opportunity to help make the UK's premier marine science conference in 2018 the most successful ever.

## 17th -19th September 2018: 8th China - Japan - Korea IMBeR Symposium

Shanghai, China



\*\* Abstract submission deadline extended to 15 August \*\*

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

The 8th China-Japan-Korea IMBeR Symposium will address the impact of climate change and anthropogenic forcing on physical processes and biogeochemical cycles, ecosystem structure and functions, and fisheries in the West Pacific region, and how these complex interactions, in turn, influence marine and human systems.

Topics include:

- Advances in observation and modelling of physical and biogeochemical processes in the West Pacific region
- The response of marine ecosystems to natural and anthropogenic forcing: past, present and future
- Responses of society to global change in marine systems: ways forward
- Training course

More info: <http://www.imber.info/en/events/china-japan-korea-imber-symposia/cjk8>

## 17th-21st September 2018: 53rd European Marine Biology Symposium

Ostend, Belgium

The Flanders Marine Institute (VLIZ) and LifeWatch Belgium are organizing the 53rd edition of the European Marine Biology Symposium (EMBS53). The EMBS53 Organizing and Scientific Committee are pleased to welcome your abstract submissions for oral papers and scientific posters. We particularly welcome papers on 'Marine Biology from a Historical Perspective', 'Science in a Modern Era', 'Marine and Coastal Citizen Science' and 'Science in the North Sea'.

Please note that no extensions to the deadline will be granted and that presenting authors are responsible for registration, travel and accommodation costs. Presenters who are unable to attend should arrange for another qualified individual to present the paper or poster in question (with notification to the Organizing Committee). All abstract submissions should be submitted via our abstract submission form <http://www.embs53.org/submit>.

We are glad to announce that the Journal of the Marine Biological Association (JMBA) kindly offers to publishing a special issue of the EMBS53 conference (scheduled for October 2019). Everyone who contributes a poster or an oral presentation at the EMBS53 is invited to submit a manuscript by 7th December, 2018. All manuscripts will go through a peer-review process.

Important dates:

-Deadline late registration: 31st August 2018

For more information: <http://www.embs53.org/>.

- **Leen Vandepitte**, on behalf of the EMBS53 Organizing Committee.

**18th-20th September 2018: Connecting glider data flow in Europe and beyond - an international conference on glider data management**

Genova, Italy

Supported by EMODnet Physics, EMODnet Data Ingestion and EuroGOOS, we are pleased to announce that the registration for the glider data management meeting is [open](#). The conference will be held in the auditorium of the [Acquario di Genova](#).

« Connecting glider data flows in Europe and beyond »

Genova – 18-20/09/2018

An international conference on glider data management



The meeting will bring together communities working on marine glider data collection and data management, providing a forum for exchanging ideas, experiences, and building a framework for collaboration at both the European and Global scales.

The ocean glider network is part of the GOOS (Global Ocean Observing System) with the ocean scale long-term programme sponsored by the Intergovernmental Oceanographic Commission of UNESCO, UNEP and the International Council for Science. Over coming years, the goal is for the glider network to become a significant sustained component of the GOOS; contributing to the Ocean Observing effort for science, the monitoring of ocean health, and operational data services.

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From this perspective, the network needs to organize itself around the application of internationally agreed data management best practices including:

- Data stewardship
- Data quality standards
- Operation and process
- FAIR principles
- Common tools to promote and foster good data management and data quality
- Key performance indicators for the network

The meeting will address these topics aiming to deliver operational guidelines for a practical and open implementation, independent of glider type, and within the integration capacity of each partner. For more information about the meeting, <https://www.ego-network.org/dokuwiki/doku.php?id=public:egodmmeeting:september2018>, or contact us at [webmaster@ego-network.org](mailto:webmaster@ego-network.org).

**27th-28th September 2018: Celebrating 50 years since the start of the Deep-Sea Drilling Project.**

London, UK

To be held at the Natural History Museum, further details and registration are available at <https://tinyurl.com/ukiodp50NHM>

**15th-19th October 2018: 4th CLIOTOP Symposium, Oceanic biodiversity under climate change**

Keelung, Taiwan



Reminder that registration is still open for the 4th CLIOTOP Symposium. Come and join us to discuss *Oceanic biodiversity under climate change: shifts in natural and human systems*.

The Symposium aims to evaluate responses to and impacts of climate variability and change on marine top predators and their food chains, as well as the dependent socio- economic and management systems. Risk assessment and evaluation tools incorporating climate variability will be identified to improve sustainable resource management, and adaptation and mitigation

strategies that address the cumulative pressures on top oceanic predators and the ecosystems that support them will also be discussed.

For registration and more info about the Symposium: <http://www.imber.info/events/imber-working-groups-program-events/4th-cliotop-symposium>

### 17<sup>th</sup> October 2018: Marine Measurement Forum #62

Wallingford, UK

The Steering Group for the non-profit making Marine Measurement Forum (MMF) series of twice yearly, one day networking seminars is delighted to announce host, date and contact details for the upcoming MMF62. The event will be hosted by Fugro at their Wallingford, Oxon headquarters.

Readers are urged to register their interest in attending the event as soon as possible and join their peers at what is always a great opportunity to hear all about latest developments and technologies in the Marine Measuring world. To register interest in attending the event please visit [https://www.fugro.com/media-centre/events/event/2018/10/17/default-calendar/marine-measurement-forum-\(mmf\)](https://www.fugro.com/media-centre/events/event/2018/10/17/default-calendar/marine-measurement-forum-(mmf)).

Readers who would like to offer a presentation at MMF62 should, in the first instance, contact Chris Janson at Fugro via [c.janson@fugro.com](mailto:c.janson@fugro.com)

### 19th-21st October 2018: 6th Arctic Circle assembly

Reykjavik, Iceland

Since its founding in 2013, the Arctic Circle has become the largest annual global gathering on the Arctic. The Arctic Circle is an open, democratic forum where anyone with something to say can stand up to ask a world leader a question during plenary sessions, bring innovative ideas to interactive workshops, or organize sessions in their own name -- the platform is yours.



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

The Arctic Circle Secretariat has received over 100 proposals for Breakout Sessions at the forthcoming 2018 Arctic Circle Assembly. Pre-confirmed speakers represent governments, indigenous associations, businesses, scientific institutions, environmental organizations and other Arctic partners.

The speakers come from Asia, Europe, the Americas, and all the Arctic states, including the USA, Russia and the major economies of the world. Here are some examples of session topics:

- Satellite Communication Initiatives and Arctic Space Programmes
- Paving the Arctic Silk Road
- Shipping & Business in an Interconnected North
- Gender and Diversity in Arctic Leadership
- Engaging Arctic Youth in Biodiversity
- Polar Law: The Rights Of Indigenous Peoples
- Sustainable Arctic Development: Arts, Culture and Creative industries
- Minimising the Footprint of Arctic Research
- Best Practice for Responsible Arctic Tourism
- The Future of the Arctic Council

The 2018 Arctic Circle Assembly is fast approaching. Register today, and make sure to book your flight and hotel in time: Reykjavik is often fully booked months in advance. For more information, please visit [ArcticCircle.org](http://ArcticCircle.org) or contact us at [Secretariat@ArcticCircle.org](mailto:Secretariat@ArcticCircle.org). We hope to see you in Reykjavik this fall.

### 23rd - 25th October 2018: Oceanology International China

Qingdao, China



Call for papers for Oceanology International China ending soon

Come and join [Oceanology International China conference](#) line up and showcase your experience with equipment and services, monitoring technology, and share emerging solutions for China's developing marine aquaculture sector.

Other subjects you can submit an abstract for include Ocean Observation and Sensing, Unmanned Vehicles and Vessels, Positioning & Navigation or Hydrography & Geophysics.

We've just extended the abstract deadline, so submit your abstract to [Penny Pei](#) by 17th of August and secure your speaking opportunity at Qingdao World Expo City on the 23-25 October.

August 2018

**31st October-2nd November 2018: MASTS 8th Annual Science Meeting 2018, "Challenges and innovative solutions for sustainable seas" Glasgow, UK**

Join us !, now the largest gathering of marine scientists in the UK, this cross-disciplinary meeting will examine the modern challenges that face our marine waters, and identify ways and means to conserve and sustainably use the oceans, seas and marine resources for sustainable development. The MASTS ASM is an inclusive event and we encourage all members of the Marine Science community to attend, whether you are based in Scotland, the UK or further afield. Everyone is welcome, so please circulate this notice widely.

This cross-disciplinary meeting brings together members of the marine science community, with the aim of promoting and communicating research excellence and forging new scientific collaborations. The cross-disciplinary nature of the event as well as the high calibre of the selected talks means that scientists can broaden their knowledge in marine science as well as benefit from expertise and ideas gained in a range of fields other than their own.

Sessions are in the following areas:

- General Science Session
- Multiple stressors
- Microplastics and marine litter
- Increasing resilience to natural hazards
- The changing Arctic Ocean: identifying and quantifying the Arctic response to climate change
- Understanding the Influence of Man-made structures in the Ecosystem - progressing the science

For more details about these sessions please visit – <http://www.masts.ac.uk/annual-science-meeting/2018-abstract-submission/>

Science presentations and e-poster sessions will take place on the first two days, together with opportunities to network. On the third day, the venue will host a number of meetings and workshops. If you would like to host a workshop or side meeting please contact [masts@st-andrews.ac.uk](mailto:masts@st-andrews.ac.uk) for details

If you would like to exhibit at the event, or showcase a piece of equipment please contact [masts@st-andrews.ac.uk](mailto:masts@st-andrews.ac.uk) for details. For more

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

general details visit <http://www.masts.ac.uk/annual-science-meeting/> or contact [masts@st-andrews.ac.uk](mailto:masts@st-andrews.ac.uk). Early bird registration for the event opened on Monday 2nd July.

**5th-7th November 2018: International Conference on Marine Data and Information Systems Barcelona, Spain**



The poster for the IMDIS 2018 conference features a blue header with the text 'IMDIS International Conference on Marine Data and Information Systems'. Below this, it states: 'The IMDIS 2018 conference will be held in Barcelona (Spain) from Monday 5 November to Wednesday 7 November 2018. It will be organized by CSIC (Consejo Superior de Investigaciones Cientificas, Spain), jointly with IFREMER, OGS and IOC/ODE, in the frame of the SeaDataCloud project (EU H2020 - Grant Agreement 730960)'. It also provides contact information: 'For more information, do not hesitate to contact [imdis2018@seadatanet.org](mailto:imdis2018@seadatanet.org). Best regards, IMDIS 2018 Organising Committee'. At the bottom, there are logos for SeaDataCloud, CSIC, Ifremer, OGS, and IOC/ODE.

**13th-15th November 2018: Marine Autonomy and Technology Showcase 2018 Southampton, UK**

MATS themes,

- Current Applications
- Aspirational applications
- Enabling technology
- Collaborative technologies
- Security of assets.



Full details of these themes can be found by [clicking here](#). Presentations including questions will be 20 minutes in length and technical in nature. The technical review committee will not have accepted any presentations that are overtly sales pitches. For further information please email [NOCevents@noc.ac.uk](mailto:NOCevents@noc.ac.uk)

**19th-23rd November 2018: MICRO2018 - All you ever wanted to know about "Microplastics" in five days.**

*Arrecife, Lanzarote, Spain*

The title for this year's conference is "**Fate and Impact of Microplastics: Knowledge, Actions and Solutions**" and the main topics include:

- Marine Ecosystems
- Freshwater bodies
- From Macro to Nano
- Social change and behaviour
- Human health
- Policy

[so find out more and register for the event.](#)

**21st November 2018: From HMS Challenger to Argo and beyond.**

*NOC, Southampton, UK*

A one day meeting focused on how our ability to collect, process, interpret and use temperature/salinity profile data has developed over 150 years. The meeting is co-sponsored by the History Special Interest Groups of the Royal Met. Soc. and the Challenger Society and has commercial sponsorship from OSIL (<http://osil.com/>) who produce and distribute standard seawater. It will focus on how our ability to collect ocean temperature and salinity profiles has developed from the era of the Challenger Expedition (1870s) to the present day when the Argo array of profiling floats now provides global coverage. It will also highlight the products derived from these data and will look towards future developments.

**RMets**  
Royal Meteorological Society  
Promoting meteorology as a science, profession and interest

**#RMetSMeet**  
The Challenger Society for Maritime Science

**NATIONAL MEETING**  
Organised by the RMetS History Special Interest Group

**From HMS Challenger to Argo and Beyond**  
Ocean profile data, their history, uses and future prospects

Knowledge of the temperature and salinity of the oceans is fundamental to our understanding of their internal dynamics and is increasingly important to a wide range of ocean and climate applications.

This meeting will show how our ability to collect, process and collate these observations has developed up to the present day, with information from about 3,800 Argo profilers providing global-scale, high-quality information throughout the year.

We will explore the international data collection framework, the products and applications that use the data and look to future expansion and new observing systems.

We will see Argo floats being prepared for deployment, ocean gliders and other autonomous vehicles in the National Oceanography Centre's profiling fleet.

**21st November 2018, 11-5pm**  
National Oceanography Centre  
University of Southampton, SO14 3ZH

For more details and to register, please visit our website [www.rmets.org/events](http://www.rmets.org/events) - registration fees apply.

rmets.org | rmetsoc | @rmets | RMetS | rmets\_

Registration and details of the meeting programme are now available at <https://conference.noc.ac.uk/hms-challenger-argo-and-beyond>. Student bursaries to cover UK travel costs and registration fees are available for this meeting.

**21st-23rd November 2018: 1st edition of the EOOS Conference**  
*Brussels, Belgium*

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

The first edition of the EOOS Conference will bring together and connect diverse ocean observing stakeholder communities to discuss the future of a European Ocean Observing System (EOOS). This is an opportunity to showcase your work, network with stakeholders across Europe and help shape EOOS.

**EOOS** European Ocean Observing System  
**CONFERENCE**  
21-23 November 2018, Brussels - Register now! [www.EOOSConference2018.eu](http://www.EOOSConference2018.eu)

**Evolving the European Ocean Observing System (EOOS)**  
**Connecting communities for end-to-end solutions**

Stakeholders' co-design of the strategy and implementation for EOOS is key to achieving a fully integrated and sustained ocean observing in Europe. The EOOS strategy and implementation plan drafts were open for stakeholder consultation. The results and the finalized documents will be presented at the EOOS conference '18 in Brussels: [register now](#) !

**7th- 8th December 2018: Arctic Circle Forum, Asia Meets the Arctic: Science, Connectivity and Partnership**  
*Seoul, South Korea*

The Arctic Circle will co-host the forum together with the Korea Maritime Institute, the Korea Polar Research Institute and the Ministry of Foreign Affairs of the Republic of Korea. The Forum will take place at the Lotte Hotel in Seoul.



Photo by Carlbs [CC BY-SA 4.0], from Wikimedia Commons

Participants will have the opportunity to attend a guided study visit to the Korea Polar Research



Institute. The Forum will be held just prior to Arctic Partnership Week in Busan (December 10th-14th), which participants will be able to attend as well. Program news and registration information will be published later in August.

### 25th-27th February 2019: Oi Americas 2019

San Diego, California, USA

The newly rebranded Oi Americas is returning to San Diego after a successful first event. Come and celebrate 50 years of delivering world leading ocean technology and marine science events. Now with brand new features for 2019.



Key reasons to visit us in San Diego in 2019:

- Discover the latest innovations and tech from 200 exhibitors (+50 than 2017).
- Now reaching all of the Americas, with more attendees from Mexico, Brazil, Chile, Colombia, Argentina, the Caribbean and others.
- Learn from our richer technical conference programme and strategic content from the new "Ocean Futures Forum".
- Reach the right contacts with improved networking tools and more Ocean Social events.

For more information, visit:

[www.oceanologyinternationalamericas.com](http://www.oceanologyinternationalamericas.com)

### 7th to 12th April 2019: 2019 EGU general assembly

Vienna, Austria

If you enjoyed a session this year at EGU, why not propose something similar for next year and perhaps offer to convene it. If you thought something was missing this year, why not propose it. If your session was successful, please propose it again. Note that no sessions are carried over now !. We hereby invite you, from now until 6th September 2018, to take an active part in organizing the scientific programme of the conference. You can do this at: <https://meetingorganizer.copernicus.org/EGU2019/provisionalprogramme>. Please use this opportunity to suggest sessions with conveners and descriptions.

### 17th – 21st June 2019: IMBER 2nd Open Science Conference

Brest, France

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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 31st August.

*We continue to send printed copies of Challenger Wave to members of the CSMS without email addresses. However it is in everybody's interest to send your email address to Jennifer Jones, [jxj@noc.ac.uk](mailto:jxj@noc.ac.uk), as soon as possible*

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# JOBS

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There are jobs on the IMBER web site

<http://www.imber.info>



Integrated Marine Biosphere Research

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### Jobs and opportunities

- Jr. Staff Scientist - Passive Ocean Acoustics, Ocean Networks Canada (Victoria, Canada). Closes 31 August 2018
- 4 PhD positions, Global Sustainability Governance/Earth System Governance, Utrecht University. Deadline 1 September 2018
- 20 PhD positions, Ifremer (France). Deadline 10 September 2018
- Executive Director, JPI Oceans (Belgium). Deadline 17 August 2018
- Post-doc Computer Scientist in Spatial Analysis and Data Integration, IRD (France). Deadline 1 September 2018
- EMFF Call for Tenders - Fisheries and Next-Generation Genetic Sequencing Methods. Deadline 28 August 2018
- 3 PhD positions, History of Science, Technology and Environment (Sweden). Deadline 15 August 2018

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