

Challenger Wave



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

NEWS

Science - Policy workshop at the forthcoming MASTS ASM.

MASTS is delighted to welcome NERC Knowledge Exchange Fellows, Jacqui Tweddle (Aberdeen University) and Katherine Yates (Salford University), to the MASTS Annual Science Meeting. On Wednesday 31st October, they will be running a Science-Policy workshop and look forward to welcoming interested researchers and policy makers/managers to this event.

This workshop is part of a project focusing on understanding the reasons why researchers do or do not engage with government organisations on marine and coastal management issues. Our aim is to identify both the incentives that currently drive engagement efforts and barriers that prevent it, information that we will then use to recommend changes to facilitate enhanced interactions in the future.

This workshop is one of a series, bringing together researchers and government organisations with marine and coastal interests, to explore incentives for and barriers to science-policy engagement. We are looking to identify some of both the incentives that currently drive engagement efforts between the research community and the policy and management community working on coastal and marine issues, and barriers that prevent engagement.

In this workshop, researchers will sit down with marine and coastal policy makers and managers, and try to find ways to maximise incentives and solve or work around barriers to engagement. The suggested solutions generated within the workshop will be used to recommend changes to both communities to facilitate enhanced

interactions in the future. The workshop will also provide an opportunity to network with members of the marine and coastal policy and management community, and building stronger relationships between our two communities.

Feel free to contact the two NERC KE Fellows, Jacqui Tweddle (jftweddle@abdn.ac.uk) and Katherine Yates (k.l.yates@salford.ac.uk), if you have any questions before or after the workshop.

Challenger Society Biennial Conference: Use your writing skills to earn cash !

The Challenger Society will be publishing reports of the Newcastle Conference online and in *Challenger Wave*, so please send in your contribution !. A prize of £75 will be awarded to the writer of the best report, which will also be published in *Ocean Challenge*.

The report should be your personal impression of the meeting, both science and social aspects, highlights and lowlights; rather than a blow-by-blow report. Your piece should be about 1000 words long, and include at least one photo. The emphasis should be on lively writing and good communication.

Please send your report to Angela Colling (AngelaMColling@gmail.com) by 24 September.

VIEWS

Sea turtle befriends a plastic bottle: a poignant tale reveals why more must be done to heal ailing oceans.

"Only we humans make waste that nature can't digest". So said marine biologist, Charles Moore. It's a sad but true fact that ten years from now, unless something is done to turn the tide on the amount of plastic being discarded into the world's

oceans, many species of turtles, already critically endangered, will become extinct.

"It's why I wrote *Tantaya and Sunika, The Turtle and the Bottle*," says author Matthew Pigott. It's an allegorical tale with an important environmental message at its heart."

Described by one reader as a cross between Julia Donaldson and Paolo Coelho, *The Turtle and the Bottle* is a touching account of a single female turtle's search for meaningful companionship and her inadvertent quest for survival. At the end, in a twist of irony, it is the very species that has led to her demise that comes to Tantaya's rescue. Adds Matthew: "Frightening statistics compelled me to write about the state of the ocean from the point of view of a turtle unable to conceive because of the mess our seas are in now."



"One of the figures that horrified me in particular was that, if you tied all of today's seaborne plastic bags end to end they would wrap around the earth more than 4000 times. Another is that 100,000 marine creatures die from seaborne plastics each year. Often it will be the same plastics killing over and over again as animals decompose and release the old indestructible plastics back into the water to kill again. It highlights that the destructive love affair with our polymer partner has got to end now."

"I thought a story aimed at people of all ages that wasn't preachy or prescriptive, but was simply about the plight of a single turtle trying to survive in an increasingly sick ocean, would be the best way to get this important environmental message across." – **Matthew Pigott, freelance writer**

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

10th-13th September 2018: 18th Biennial Conference of the Challenger Society Newcastle upon Tyne, UK

For a list of sessions, or check for details and news please visit our website 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 (10th, 11th and 13th) 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.

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



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:

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

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Ingestion and EuroGOOS, the conference will be held in the auditorium of the [Acquario di Genova](http://www.acquario.genova.it).

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.

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.

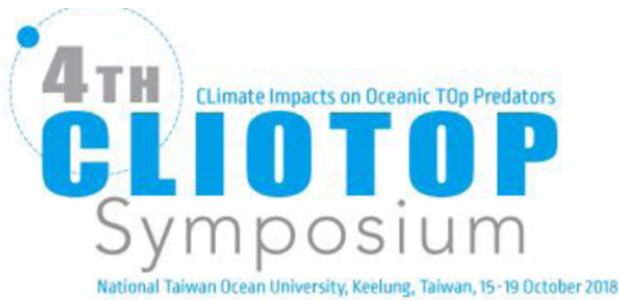
27th-28th September 2018: Celebrating 50 years since the start of the Deep-Sea Drilling Project.

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>

17th 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

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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.



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 or contact us at Secretariat@ArcticCircle.org. We hope to see you in Reykjavík 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.

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:

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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

MASTS is delighted to welcome NERC Knowledge Exchange Fellows, Jacqui Tweddle (Aberdeen University) and Katherine Yates (Salford University), to the MASTS Annual Science Meeting. On **Wednesday 31st October** (16.45-18.15), they will be running a **Science-Policy workshop** and look forward to welcoming interested researchers and policy makers/managers to this event. You can sign up for this workshop as part of the ASM registration system <https://www.eventsforce.net/standrews/73/register>

Feel free to contact either Jacqui Tweddle (jftweddle@abdn.ac.uk) or Katherine Yates (k.l.yates@salford.ac.uk), if you have any questions before or after the workshop. For more general details visit <http://www.masts.ac.uk/annual-science-meeting/> or contact masts@st-andrews.ac.uk.

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



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

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.

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.

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

#RMetsMeet
The Challenger Society for Marine Sciences

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 - registration fees apply.

rmets.org [rmetsoc](https://www.facebook.com/rmetsoc) [@rmets](https://twitter.com/rmets) [RMets](https://www.linkedin.com/company/rmets) [rmets](https://www.instagram.com/rmets)

21st-23rd November 2018: 1st edition of the EOOS Conference

Brussels, Belgium

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

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 Caribs [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

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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

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


IMBeR² Open Science Conference
Integrated Marine Biosphere Research

Ocean sustainability for the benefit of society: Understanding, challenges, and solutions

17-21 June 2019, Brest, France

The Integrated Marine Biosphere Research (IMBeR) project is planning its second Open Science Conference that will focus on themes related to:

- Understanding and quantifying the state and variability of marine ecosystems
- Improving scenarios, predictions and projections of future ocean-human systems at multiple scales
- Improving and achieving sustainable ocean governance

[More information on the IMBeR Open Science Conference](#)

Please distribute this message widely via your networks!

[Visit the IMBeR Website](#)

imber@imr.no

The CSMS email address is info@challenger-society.org.uk. Contributions for next month's edition of Challenger Wave should be sent to: john@vectisenvironmental.com by the 28th September.

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, as soon as possible

JOBS



We have an opening in our sales team for a Scientific & Technical Sales Engineer.

This position would suit a sales professional with a background in a high technology environment, ideally environmental based, or alternatively a marine scientist wishing to make the transition to the commercial world in a growing company with excellent career progression opportunities and benefits. Full technical or sales training will be provided. The successful candidate will have excellent interpersonal skills and a high level of PC literacy.

Planet Ocean Ltd is a small but dynamic Company and this role allows the candidate to engage with the sales process from enquiry through to delivery and beyond.


The position reports directly to the Sales & Business Development Manager.

For additional details please contact:-

Mrs C. Sloane
Planet Ocean Ltd
Unit 16, Camberley Business Centre
Bracebridge
Camberley
Surrey
GU15 3DP
carole@planet-ocean.co.uk

There are jobs on the IMBER web site

<http://www.imber.info>

 **IMBeR**
Integrated Marine Biosphere Research

Jobs and opportunities

- Director: Tyndall Centre for Climate Change Research, University of East Anglia, Norwich (UK). Application deadline: 28 September 2018
- Senior science lead: Climate change and health, Our Planet, Our Health, London (UK). Application deadline: 23 September 2018
- Postdoc: Using sea cucumbers to ameliorate environmental impacts of fish pens, NOAA Fisheries, Seattle (USA).
- Postdoc: Using genomics and genetics to promote shellfish aquaculture. NOAA Fisheries, Seattle (USA)
- Postdoc: Population ecology, University of Washington, Seattle (USA)
- Assistant/Associate/Full Professor: Aquatic and fishery science, University of Washington, Seattle (USA). Application deadline: 28 September 2018
- MSc/PhD: Influence of ecosystem variability on sub-Antarctic penguins, University of Cape Town (South Africa). Application deadline: 1 October 2018
- Program Director: Ocean Science Trust, Oakland, California (USA). Application deadline: 30 September

Visit the IMBeR Website

imber@imr.no