

# Challenger Wave



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

## NEWS

### DEFRA Research Interests

DEFRA have just published a list of their research interests as part of a deliberate strategy to try and engage the widest possible community in helping to meet their research needs. This reflects a clear wish to widen the pool of researchers involved with DEFRA and has the potential to benefit DEFRA, whose resources are inevitably limited, and the research community for whom research impact is now an important metric, in REF and elsewhere. This is quite a big step for DEFRA so they are keen that this reaches the research community. The document covers all of DEFRA research interests which are of course very broad but has specific marine elements. The research questions are also necessarily high level but can help us all understand what DEFRA needs to know and hence how to focus a research proposal to attract their interest. The document can be found at [defra-areas-of-research-interest](#).

### Project Management, Outreach and Polar Science Early Career workshops

The Challenger Society and the UK Polar Network teamed up to be the official partners of two early career workshops entitled 'Project Management, Outreach and Polar Science'. The workshops were funded through a British Antarctic Territories strategic projects grant awarded by the Foreign and Commonwealth Office. The workshops provided a networking event for researchers with a common passion for polar science as well as an opportunity to expand their project management and outreach knowledge.

The schedule of the day was identical on both occasions. After meeting the other participants, a keynote lecture was given by experts in marine or polar science, and the importance of project

management and outreach within science was discussed using their own experience. After learning about some project management theory, the participants had the challenging tasks of planning a mock cruise to the Southern Ocean or an expedition to sample a lake in Svalbard. On top of the time constraint, the teams were given unexpected scenarios such as a sick crewmember or even an encounter with a polar bear !. These table-top scenarios showcased the importance of thorough planning before any project. All teams managed to stay in budget, with one group even having enough to share one beer afterwards (they were 'in' Norway).



A collage of snippets from the Southampton workshop; photographs courtesy of Chelsey Baker

The afternoon session was dedicated to outreach. The teams designed outreach 'tools' (games, presentations, models etc.) tailored for a specific age group and highlighting a certain aspect of polar science (melting sea ice, changing food webs, life for the societies living in the Arctic etc.). The designs were pitched to a judging panel and

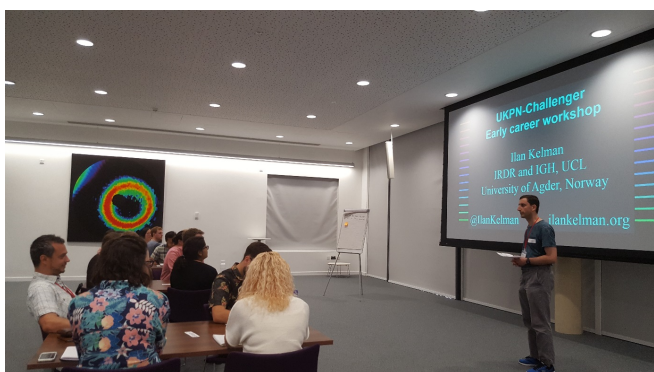
the winning team was awarded a budget of £250 to put their plan into action.



Prof. Rachel Mills sharing some top tips with the participants of the Southampton workshop; photograph courtesy of Vlad Macovei

The first workshop took place in March at the National Oceanography Centre, Southampton. The keynote speaker was the president of the Challenger Society, Professor Rachel Mills. The winning outreach activity was 'On Thin Ice' – a board game designed to teach school children about the challenges faced by polar environments due to rising temperatures, and educate them about actions they can take to reduce carbon emissions.

The second event was held at the British Antarctic Survey in Cambridge. The keynote lecture was held by Dr Ilan Kelman from UCL. The project that got the judges' vote was the very original idea of creating a soundscape using sounds recorded by scientists during their polar fieldwork, the aim being to create stories which can help educate people.



Dr Ilan Kelman delivering the keynote lecture to the Cambridge workshop participants; photograph courtesy of Vlad Macovei

The organising team were Kyle Mayers, Chelsey Baker, Vlad Macovei and Luisa Cristini, and we thank all the participants and the guest speakers. We are looking forward to seeing the winning

outreach projects put into practice. You can look back at the tweets from the two days by searching **#PolarWorkshop**. - **Vlad Macovei**, National Oceanography Centre Southampton

## VIEWS

### John Swallow - a resource

John Swallow FRS (1923-1994), the inventor of the neutrally buoyant float that was the forerunner of the present Argo profiling float array, kept comprehensive notebooks throughout his working life. They were written mostly on his many research cruises.



These notebooks are held in the National Oceanographic Library archive in Southampton and are also available online at <http://viewer.soton.ac.uk/acc/multivol.html?id=2422>. I have created an index, as follows to these notebooks to aid anyone wishing to find a particular event. - **John Gould**, [wjg@noc.soton.ac.uk](mailto:wjg@noc.soton.ac.uk)

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**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-7th September 2017: Advances in Marine Biogeochemistry Conference VIII**

Oban, Scotland

Advances in Marine  

Biogeochemistry Conference VIII Save the date! 6 – 7 Sept 2017

Marine Biogeochemistry Special Interest Group of the Challenger Society at SAMS in Oban



Organisers:  
MBF Chair: Gary Fones, Uni. Portsmouth  
AMBIO VIII Co-convenors: Kirsty Crocket and Natalie Hicks, SAMS  
Photo: Emma Defew and Mark James

AMBIO meetings set the stage for Marine Biogeochemistry in the UK, connecting disciplines within the field and establishing networks for the integration of early career scientists. The AMBIO VIII meeting in September 2017 is to be hosted at the Scottish Association for Marine Science in Oban. Save the date! Registration will open in early 2017.

Info: [www.challenger-society.org.uk/Marine\\_Biogeochemistry\\_Forum](http://www.challenger-society.org.uk/Marine_Biogeochemistry_Forum)  
Contact: [kirsty.crocket@sams.ac.uk](mailto:kirsty.crocket@sams.ac.uk), [natalie.hicks@sams.ac.uk](mailto:natalie.hicks@sams.ac.uk)

Save the date for AMBIO VIII, more information nearer the time, [www.challenger-society.org.uk/Marine\\_Biogeochemistry\\_Forum](http://www.challenger-society.org.uk/Marine_Biogeochemistry_Forum)

## 2nd-6th October 2017: the 5th IMBIZO

Woods Hole, MA, USA



**We have extended the abstract submission deadline for IMBeR IMBIZOs!**

IMBIZO means 'a gathering' in Zulu, and we will gather in Woods Hole in October to address:

*Marine biosphere research for a sustainable ocean: Linking ecosystems, future states and resource management*

We will follow the proven IMBIZO format of three concurrent but interacting workshops, with joint plenary and poster sessions. To optimize interactions, each workshop will be limited to 40 participants, selected on the relevance of the submitted abstracts (so you must submit an abstract to be considered).

Plenary **keynote presenters** are: Eddie Allison, Mary Ann Moran, André Punt, David van der Zwaag

The workshops themes and conveners are :

1. [Critical constraints on future projections of marine systems](#) (Laurent Bopp & Eric Galbraith)
2. [Metabolic diversity and evolution in marine biogeochemical cycling and ocean ecosystem processes](#) (Gerhard Herndl & Tatiana Rynearson)
3. [Management Strategy Evaluation: Achieving transparency in natural resource management by quantitatively bridging social and natural science uncertainties](#) (Cisco Werner & Ingrid van Putten)


Bonus hands-on [Infographics](#) training workshop for all IMBIZO participants on 1 October

**IMBIZOs are great meetings, don't miss out - submit an abstract by 15 June 2017!**

[More information on the IMBIZO 5 Website](#)

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

STAY CONNECTED

IMBIZO is the Zulu word for 'a gathering'. IMBeR will hold its fifth IMBIZO at Woods Hole in October. The overall theme of IMBIZO 5 is *Marine biosphere research for a sustainable ocean: Linking ecosystems, future states and resource management*. This is the basis of IMBeR's science plan where the research goal is to *Understand, quantify and compare the historic and present structure and functioning of linked ocean and human systems to predict and project changes including developing scenarios and options for securing or transitioning towards ocean sustainability*.

The meeting will consist of three concurrent but interacting workshops, with joint plenary and poster sessions. This format has previously been successful in promoting discussion between disciplinary experts, in developing interaction between biogeochemical, ecological and social science research, and in producing synthesis papers and journal special issues. To optimize participant interactions, each of the three workshops will be restricted to 40 participants, selected on the relevance of the abstract that you submit.

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

The themes of the workshops are as follows:  
WS 1 Critical constraints on future projections of marine systems

WS 2 Metabolic diversity and evolution in marine biogeochemical cycling and ocean ecosystem processes

WS 3 Management Strategy Evaluation: Achieving transparency in natural resource management by quantitatively bridging social and natural science uncertainties

There will be a bonus day learning how to do Infographics prior to the IMBIZO.

## 4th-6th October 2017: MASTS 7th Annual Science Meeting: "Sea Change – Changing Seas, Changing Times"

Glasgow, Scotland, UK

The Marine Alliance for Science and Technology for Scotland (MASTS) will hold its seventh Annual Science Meeting (ASM) at the Technology & Innovation Centre, Glasgow. Now the largest gathering of marine scientists in the UK, this cross-disciplinary meeting will promote the latest advances in marine science, good governance and using sound science responsibly. It will revisit the vision: 'Clean, healthy, safe, productive, biologically diverse marine environments, managed to meet the needs of people and nature'

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.

Topical meeting sessions include:

- General Science Session
- Maximising capabilities of volunteer observing systems
- SNH session - Safeguarding Scotland's coasts and seas - perspectives and visions
- Deep Sea
- Circulation, dispersion and connectivity in Scottish Waters
- Marine Biogeochemistry

For more details about these sessions please visit <http://www.masts.ac.uk/annual-science-meeting/2017-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. We also invite you to join us at the conference dinner to be held on the evening of Wednesday 4th October at the Millennium Hotel Glasgow (featuring MASTS own Prof Nick Hanley and his Hoochie Coochie Ceilidh band).

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. For more general details visit <http://www.masts.ac.uk/annual-science-meeting/> or contact [masts@st-andrews.ac.uk](mailto:masts@st-andrews.ac.uk). We look forward to welcoming you at the MASTS ASM. Early bird registration for the event opened on Monday 3rd July.

### 13th-15th October 2017: Fifth Arctic Circle Assembly

*Reykjavik, Iceland*


To be held at the Harpa Concert Hall and Conference Centre, <https://player.vimeo.com/video/152251225?autoplay=1>. The Arctic Circle Assembly provides an open, democratic forum for discussion and cooperation on Arctic Affairs. We hope to see you in Reykjavik this fall. For more information please visit [Secretariat@ArcticCircle.org](mailto:Secretariat@ArcticCircle.org).

### 13th-15th November 2017: NOC Marine Autonomy & Technology Showcase

*Southampton, UK*


For more information visit [conference.noc.ac.uk/matshowcase](http://conference.noc.ac.uk/matshowcase).

**NOC MARINE AUTONOMY & TECHNOLOGY SHOWCASE**



National Oceanography Centre  
conference.noc.ac.uk/matshowcase

**Invitation to Submit Abstracts for NOC MATS2017**



The NOC has been pioneering in the development of Marine Autonomous Systems for nearly 20 years now, developing platforms that have collected data from the most challenging environments, transforming our understanding of the ocean. Our world-leading thinking has also been shared with companies operating in this sector, and we continue to build an impressive portfolio of collaborative projects with industry partners that will develop the next generation of marine autonomy going forward. Please do take this opportunity to join us for what promises to be a very exciting week that will showcase world-leading platform and sensor developments, engaging many stakeholder groups from both the private and public sector, all united around the benefits that can be achieved from development and use of marine autonomy for ocean observation. **Kevin Forshaw, Associate Director Enterprise and Innovation, NOC**

**New for 2017- Call for Abstracts**

For the 2017 event we have engaged with our Industry partners, and as a result we are actively inviting Abstract Submissions for the 2017 showcase based on the following conference pillars:-


1. Applications - Current Reality and Aspirations
2. Enabling Technologies to enhance our understanding of the marine environment
3. "Making Systems Smarter" - the advance from Automatic to Autonomy
4. The economic, environmental and human benefits of autonomous systems
5. Upskilling and preparing the workforce for an autonomous future \*this session will include a session of NEXUS student submissions.
6. Miscellaneous session led by submissions.

Please visit the MATS2017 website for further guidance on the required content for the above pillars and how to submit an abstract by [clicking here](#).

Abstract submission will open 30 June 2017 and close 1 September 2017, confirmation of acceptance will be sent out by 20 September 2017, the final decisions will be made by an expert panel.

**NOC MARINE AUTONOMY & TECHNOLOGY SHOWCASE**

13:11:17 – 15:11:17  
NOC SOUTHAMPTON



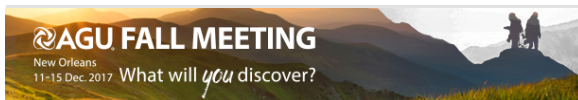
National Oceanography Centre  
conference.noc.ac.uk/matshowcase

### 15th November 2017: Royal Meteorological Society meeting

*London, UK*

Early announcement of a Royal Meteorological Society meeting entitled 'Maritime Meteorology', to be held at Trinity House, London. Attendance at the meeting will be free but it will probably be necessary to register in advance. More information nearer the time.

**11th-15th December 2017: AGU Fall Meeting**  
**New Orleans, USA**  
For more information visit [fallmeeting.agu.org/2017](http://fallmeeting.agu.org/2017).



**Discover and Be Discovered: Submit an Abstract**

Showcase your research to an international audience, debate with your peers, and find new ways to create a positive impact on society—only at Fall Meeting. This is the largest and most influential event dedicated to advancing Earth and space science. **Don't miss your opportunity to accelerate your career.** And if you submit early you'll have a chance to win a US\$100 gift card!

**Early Abstract Submission Deadline: 26 July, 11:59 P.M. ET**  
**Final Abstract Submission Deadline: 2 August, 11:59 P.M. ET**

[Submit an Abstract](#)

**Before You Submit Your Abstract**

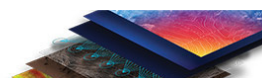
- [Join AGU or renew your membership](#) today to submit an abstract.
- [Read the guidelines](#) to ensure that you have not missed important information that may hinder your submission.

AGU galvanizes a community of Earth and space scientists that collaboratively advances and communicates science and its power to ensure a sustainable future.

**13th-15th March 2018: Oceanology International**  
**London, UK**  
For more information visit [OI website](#) or contact [Ellen Burgess](#).

July 2017

**O**ceanology  
**i**nternational  
**2018**  
13-15 MARCH 2018, LONDON, EXCEL



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**CALL FOR  
ABSTRACTS  
OPEN NOW**

[FIND OUT MORE](#)

**Technical Tracks: Be a part of the conference**

Whether you are a technologist seeking to describe a new development, a scientist or an engineer wishing to share a new application or a user of ocean data wanting to share your specific needs, we invite you to [submit an abstract](#) to the Oceanology International 2018 technical conference programme.

The topics for submission are:

- Unmanned Vehicles and Vessels
- Hydrography, Geophysics and Geotechnics
- Navigation & Positioning
- Underwater Imaging & Metrology
- Ocean Observation & Sensing
- Ocean Information & Communications Technology
- Monitoring Structural Integrity
- Delivery Efficiencies Across the Offshore Oil & Gas Life Cycle
- Marine Renewables
- Aquaculture
- Delivering Information & Data Needs for Coastal Engineering

The descriptions for each track and submission guidelines can be found on our [website](#). The deadline for submissions is **15 September 2017**. If you have any questions about the above technical tracks and how you can get involved as a speaker, chair or contributor, please don't hesitate to contact [Ellen Burgess](#).

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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 28th July.

*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

There are jobs on the IMBER web site

<http://www.imber.info>



Integrated Marine Biosphere Research

## IMBeR e-News

### Announcements and reminders

- [New GEOTRACES Intermediate Data Product release at Goldschmidt Paris, France 16 Aug](#)
- [Release of Version 5 of the Surface Ocean CO2 Atlas – SOCAT](#)
- Contribute to *Deep-Sea Research II: IIOE-2: Motivating New Exploration in a Poorly Understood Basin*. Submit by 1 November 2017. Contact [Raleigh Hood](#)
- [IOC-UNESCO Global Ocean Science Report published](#)
- [Report of the Workshop on the Implementation of Multidisciplinary Sustained Ocean Observations](#)
- [Data submission SOCAT version 6 ends 15 Jan 2018 and quality control ends 31 March 2018](#)
- [First external review IPBES Global Assessment of biodiversity and ecosystem services](#)
- [A new data base agency for the Southern African Data Centre for Oceanography](#)

### Meetings, conferences, workshops and summer schools

- [POGO-SCOR Dev country Nutrient Analysis training NIOZ Texel, Holland 5-9 Nov 2017](#)
- [Indian Ocean community workshop 11-13 Sep, La Jolla, CA, USA. Register by 14 July](#)
- [SOCAT session at ICDC10, 23 August 2017 to discuss the SOCAT strategy](#)
- [3rd Int Marine Connectivity Conf, 11-13 Sept, Louvain-la-Neuve, Belgium. Register by 11 Sept](#)

### Jobs and opportunities

- [Postdoc: Modelling ocean variability in carbon and nitrogen stable isotopes, UK. Apply by 18 July](#)
- [Ocean observing network technical coordination, JCOMMOPS/WMO, France. Apply 24 July](#)
- [2018 Smith Postdoctoral Fellowship in Conservation Research. Apply by 8 September](#)
- [Research scientist, Memorial University, St John's, Canada. Apply by 31 July](#)
- [Marine Law and Governance call for proposals. Submit by 20 July at 16:00](#)
- [Postdoc: Open call. Institute of Oceanology Polish Academy of Sciences. Apply by 30 September](#)

Visit the IMBeR Website

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



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**All the best,**  
the CIESM team  
Mediterranean Science Commission