

Challenger Wave



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

NEWS

Images and words from the CIESM Congress in Kiel

It is only six weeks since our 41st Congress closed its doors in the late (and warm !) summer days of Kiel. Of those who made the trip and sent feedback, most called the event "great", "significant" and/or "memorable": the dominant sentiment is that much was achieved in a few days, thanks to the mix of flash presentations and numerous debates which gave rhythm and succeeded to attract hundreds every morning for further discussion around the posters. We are happy that the new formula worked so well.



Beyond our renewed, warm thanks for the superb logistics offered by the host country and by the local team, we are especially grateful to the many young scientists who added their freshness, intelligence and spontaneity to the debates, and to the moderators - all the way to the (far) north - who played their part really well in leading the general discussions towards essential questions and key research gaps.

Now, before memories fade away, I invite you to open the following [link](#). There you will find in words and photos major highlights of the Congress, plus a great number of brief syntheses covering the 77 sessions; there is much food for thought there. Do not hesitate to send us more interesting photos (but no 'selfies' please !!) of the Congress sessions and/or receptions which you attended. The best will be added to our online portfolio.

www.challenger-society.org

We hope to meet many of you at the 2019 CIESM Congress: only the year is known at present, the time and place will be selected next year. In the mean time, before the end of November, we will publish online the official Congress volume that will include all congress papers physically presented in Kiel, plus all moderators' syntheses. You will be the first to know, our very best wishes,
- **Frederic Briand, and the CIESM Congress Team**

Reminder: IMBER is requesting bids to host the IMBER Open Science Conference in 2019

IMBER (Integrated Marine Biosphere Research) is planning to hold its second Open Science Conference (OSC) in 2019. The five-day OSC will provide a focus for the integration and synthesis of IMBER research activities with the goal of providing new understanding and quantification of the past, present and future structure and functioning of linked ocean and human systems in order to develop options for securing or transitioning towards ocean sustainability. Dr. Carol Robinson is the Chair of the OSC Scientific Steering Committee and appointment of the Scientific Steering Committee is underway. IMBER is requesting proposals to host the OSC. Expected participation is between 250 and 500 people. Bids should include the following information:

- Scientists and organisations who will serve as local hosts, including the expertise of local planning committee members,
- Suitability of the location to attract leading scientists, provide outreach opportunities, and link with policymakers,
- Suitability of the location for inexpensive international air travel, road and rail links and environmentally-friendly transport options (such as minimising connections),

- Description of the meeting venue and capacity of the meeting space available for the duration of the meeting. Requirements include: reception area, one plenary room and 3 - 5 breakout rooms, area to exhibit posters, and additional smaller meeting rooms,
- Availability of accommodation at a range of costs, including the number of rooms, distance from the meeting venue, and costs of rooms for high and low season,
- Distance of meeting and accommodation facilities from major airport(s) or rail links and cost of transportation between airport and meeting and accommodation facilities,
- Expected cost of meals per day,
- Expected level of local support and associated funding, including ability to provide meeting space, audio-visual equipment, and staff support at no cost to the organisers,
- Potential to raise other complementary support,
- Dates when the facility is available in 2019,
- Local entertainment and tourism possibilities, and
- Plans to minimize environmental effects of the symposium.

Enquiries and bids should be sent to Lisa Maddison (Lisa.Maddison@imr.no) at the IMBER International Project Office before **1 April 2017**. Bids should be limited to about 10 pages.

VIEWS

Challenger makes waves in Wallingford

On the 19th and 20th October the Challenger Society special interest group on ocean wind waves met at HR Wallingford, in Oxfordshire. This was the second meeting of the group, with around 30 attendees.

The meeting kicked-off with a session on observing, where Terry Edwards from RS Aqua presented the diverse range of methods used to observe waves at sea, even in extreme storms. The afternoon continued with a session on 'Forecasting Extreme Waves' which began with a keynote from Jean Bidlot. We finished the first

day with a tour of HR Wallingford's physical model and impressive Fast Flow Facility - thanks to tour guide David Todd. The Challenger society kindly contributed to our evening meal on the Wednesday, where 14 people attended.

Day two began with a focus on the impacts of extreme waves; a keynote from Judith Wolf, before moving on to 'Freak Waves and Statistics of Extreme Events' where Paul Taylor gave a presentation on giant waves on the open sea – 'mariners' tall tales or alarming fact?'

There were a total of 18 speakers with a wide range of talks, from lab experiments to high performance computing, non-linear interactions to statistics. The organisers thank HR Wallingford for hosting the meeting and providing refreshments, and the Challenger Society for supporting the meal. We also thank session chairs, and all speakers. We are already looking forward to our next special interest waves meeting ! - **Lucy Bricheno, NOC and Doug Cresswell, HR Wallingford**

Diversity in Marine Science (DiMS) at Challenger 2016

There is, and has been for some time, a poor diversity in marine sciences in the UK. It does not concern just the gender split in academia, which is now discussed regularly in several contexts (e.g., within institutions or national frameworks), but also covers a range of issues such as age, ethnicity, disability and many more. Recognising the need for a wider discussion and renewing the Challenger Society's commitment to tackle the problem, at this years' biennial Challenger Conference in Liverpool we held the first Diversity in marine Sciences (DiMS) meeting.

The event followed a 'Women in science' meeting held in Oxford in January 2016, at the Society's Marine Biogeochemistry special interest group meeting. This was an informal meeting open to anyone to attend to discuss some of the issues of gender inequality in UK marine science. The main outcome of that meeting was a clear need for further discussions including wider diversity issues. The main purpose of the DiMS meeting at the Challenger Conference was to discuss how things have changed over the last few decades in the three areas of gender, ethnicity and disability, what we have learnt and how we can help, as scientists, to improve diversity in the future.

The DiMS team opened the meeting and handed over to a panel of six scientists from various career stages and backgrounds to discuss their experience in working in marine science. The panel consisted of:

- Judith Wolf NOC Liverpool
- James O'Donnell University of Connecticut
- Silke Kroeger CEFAS
- Miranda Lowe National History Museum
- Samantha Gordine University of St. Andrews
- John Bruun Plymouth Marine Laboratory



The meeting was well attended particularly given the early start at 7.30 am, with about 60 audience participants, of whom approximately 35% were men. Some of the main points that came out of the discussion were:

1. Gender issues that are stereotypically associated with women actually apply to men too (maternity/paternity leave)
2. The common idea that the main issue with gender is taking time off to have children does not apply to everyone and does not seem to be the main obstacle to career advancement for women
3. Disabilities are not always visible or obvious and so this makes it hard for someone to discuss them with colleagues or get the help required
4. Unconscious bias related to diversity affects all of us, so it's important to accept this fact and consciously overcome it (You can take a test to help identify it e.g. <https://implicit.harvard.edu/implicit/takeatest.html>)
5. Impostor syndrome, i.e., the inability of some individuals to recognise their

accomplishments, is a serious issue in science at all career stages

6. Minority ethnic groups are very under-represented in marine science across all career stages.

The organising team received excellent feedback about the event with many participants keen for DiMS meetings to become a regular feature at Challenger Society conferences. Some attendees noted that the time allocated for this important discussion wasn't long enough, as it had to be cut short (after 45 mins) to allow for the keynote talk to commence. This showed there are still many issues to be discussed surrounding Diversity in Marine Science and that the UK marine science community is keen to participate actively in the discussion and to find concrete ways to close the existing diversity gaps.

Look out for a full article with an in-depth analysis of DiMS 2016 to be published in a future Ocean Challenge. Feel free to get in touch with any of us to continue the discussion and/or to participate in the organisation of the next event ! - **Emma Cavan, Chris Daniels, Kyle Mayers and Luisa Cristini**

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

23rd-28th April 2016: European Geosciences Union General Assembly

Vienna, Austria

The abstract Deadline is 11th January 2017 but those who submit an abstract before the 1st of December 2016 are able to apply for financial support from European Geosciences Union.

Craig Smeaton from the University of St. Andrews invites the submission of abstracts for the session BG3.3/OS3.9, entitled *Coastal Carbon: From Vegetated Coasts to Sedimentary Stores*, which he is convening alongside William Austin (also University of St. Andrews), Hilary Kennedy (University Bangor), Evina Gontikaki (University of Aberdeen) and Thomas Bianchi (University of Florida). We welcome abstracts from researchers of any level working on aspects of coastal carbon, additional details of the session can be found at <http://meetingorganizer.copernicus.org/EGU2017/session/24946>.

15th-17th November 2016: SUT 2016 Technical Conference, The Future of Underwater Technology

London, UK

The conference will be held in London (UK) to celebrate the 50th anniversary year of the Society. It aims to attract the best authors in their field from across the world to showcase new technologies, products, best practices and in particular foresight the next generation of subsea engineering, marine science, and all aspects of underwater technology. It will be a flagship event for the Society and it is the intent for it to become a regular occurrence and be held in future at SUT global centres around the world.

Academics, Consultants, Engineers and Scientists, Business Executives and Managers, Lawyers, Insurers and Underwriters, Researchers, Technicians, Young Professionals and Students are some of the people we expect to see at the conference. There are also opportunities for sponsorship and to take up exhibition space. The venue will allow provision for vessel access alongside.

The programme will consist of plenary sessions, technical sessions, and student poster displays. Substantial effort will be made to ensure the highest quality programme with emphasis on the theme of the event. The final programme will be developed by the Technical Steering Committee which will be made up of representatives from the whole SUT organisation including Branch Committees, Special Interest Groups, and Council, www.sut.org/event/sut2016.

20th-24th February 2017: Marine Imaging Workshop 2017
Kiel, Germany

www.challenger-society.org



The Marine Imaging Workshop 2017 follows on from a successful 2014 workshop, and invites anyone using visual imagery in the marine realm: scientists, engineers, researchers, regulators, and commercial partners. The focus is on developments and challenges in methods of marine optical imaging: imagery acquisition, processing and manipulation, annotation, segmentation and automated strategies, data management, application to scientific aims, and outlook and future developments.

Important Dates

30 Sept 2016	Registration and abstract submission open
8 Nov 2016	Abstract submission deadline
25 Nov 2016	Abstract acceptances announced
16 Dec 2016	Registration deadline
13 Jan 2017	Photo competition entry deadline
20-23 Feb 2017	Workshop

Registration

Attendance is limited to 120. Those with presentations (talk/poster) will be given preference – limit of 1 talk per attendee (additional posters available).

Please register on the workshop website. The registration fee is 250 € (+optional conference dinner), to be paid upon abstract acceptance.

Photo competition

Submit your best marine images to be judged for prizes! Adriana Basques is an international award winning underwater photographer who will judge the entries (<http://www.adrianabasques.com>). See contest rules on the workshop website.

Accommodation

Special rates at some Kiel hotels are provided for workshop attendees. Details are on the workshop website.

www.marine-imaging-workshop.com

6th-7th September 2017: Advances in Marine Biogeochemistry Conference VIII

Oban, UK

Save the date for AMBIO VIII, more information nearer the time, www.challenger-society.org.uk/Marine_Biogeochemistry_Forum

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 Diefew 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
Contact: kirsty.crocket@sams.ac.uk, natalie.hicks@sams.ac.uk

November 2016

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

Woods Hole, MA, USA

Mark the dates !, IMBER will hold its fifth IMBIZO (the Zulu word for a gathering) at the Woods Hole Oceanographic Institute. The theme of IMBIZO V will be: *Marine biosphere research for a sustainable ocean: Linking ecosystems, future states and resource management*. We will follow the usual IMBIZO format of three concurrent but

interacting workshops – topics to be announced soon. Please spread the news widely.



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 30th November.

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**PROFESSOR / ASSISTANT PROFESSOR GEOPHYSICS****at the University of Helsinki**

The Department of Physics in the Faculty of Science at the University of Helsinki invites applications for a Professor or Assistant/Associate Professor in the field of hydrospheric geophysics. The successful applicant may be appointed to a permanent professorship or a fixed-term associate/assistant professorship (a tenure track system consisting of two stages, each 3 – 5 years), depending on his or her qualifications and career stage.

The University of Helsinki is among the leading multidisciplinary research universities in the world. In addition to its 11 faculties, the University includes several independent institutes, some of which are jointly operated with other universities. Some 35,000 students are currently pursuing an undergraduate or a postgraduate degree at the University of Helsinki. The Department of Physics in the Faculty of Science carries out research on physics, meteorology, astronomy and geophysics at an international level and provides academic teaching based on high quality research. Research focuses on materials physics, atmospheric sciences as well as in elementary particle physics and astrophysics. The department houses nationally significant research equipment and several research centres of excellence. More details on the Department of Physics may be found at <http://www.physics.helsinki.fi/english/>.

The professor will be responsible for research in, and teaching of hydrospheric geophysics. To be successful the applicant must have internationally high-level experience from one or more subfields of hydrospheric geophysics (physical oceanography, hydrology, cryology, or phenomena at the water-atmosphere interface). The appointee must be able to take advantage of national and international research funding opportunities, participate in the department's teaching activities and doctoral education, and actively participate in the interaction between science and society at large.

According to the Regulations of the University of Helsinki, a professor must hold a doctoral degree and have high-level academic qualifications, experience in heading scientific research. The professor must also be able to provide research-based teaching of high quality, supervise dissertations and theses as well as evidence of international cooperation in the field. An assistant/associate professor must hold a doctoral degree and ability for independent scientific work as well as teaching skills required by the position. Furthermore, the successful candidate is expected to have competence and motivation for a scientific career proven by scientific publications and other academic activities.

When assessing the qualifications of each candidate, attention will be paid to scientific publications and other research results of scientific value, teaching experience and pedagogical training, the ability to produce teaching materials, other teaching merits, and, if deemed necessary, teaching skills as demonstrated in a lecture, as well as participation in doctoral education. Furthermore, attention will be paid to the applicant's activities within the research community, success in obtaining research funding, research work abroad and elected positions in international organisations.

Applications must have the following enclosures (in English):

- 1) An academic portfolio approved by the Faculty (as set out at <http://www.helsinki.fi/facultyofscience/vacancies/index.html>) containing a summary of supervision duties of master's and doctoral theses and a presentation on how the applicant plans to develop his/her field and its teaching;
- 2) A list of those publications and other relevant documents on competence and merits that the applicant

November 2016

wishes to be taken into account in the selection process. On the Faculty's request, applicants should prepare to submit up to 10 publications of their choice to be sent to assessors after the application period. The publications shall be submitted the University of Helsinki Recruitment System upon request of the Faculty.

Please submit your application using the University of Helsinki Recruitment System https://rekry.helsinki.fi/sap/bc/erecruiting/posting_apply?param=cG9zdF9pbmN0X2d.... The deadline for applications is 5th December 2016. More information can be obtained from the head of the Department of Physics, Professor Hannu Koskinen, +358-50-4155356, Hannu.E.Koskinen@helsinki.fi.
