



*ICES Annual Science  
Conference  
Hamburg, Germany  
24 – 27 September 2018*



### ***ICES 2018 ASC at the University of Hamburg***

#### ***Travel Funding Available for New U.S. Participants***

Requests for travel funds by new U.S. participants are due **29 June 2018**

The International Council for the Exploration of the Sea (ICES) is a leading forum for the promotion, coordination, and dissemination of research on physical, chemical, and biological systems in the North Atlantic and adjacent seas. ICES promotes the science of discovery in the marine realm. In addition, it provides advice on human impacts on marine ecosystems, including effects of fishing, but with strong emphasis on broader areas of concern in evolving ecosystem-based management. Information on ICES, its goals and activities is on the web at: [www.ices.dk](http://www.ices.dk). U.S. Delegates to ICES Dr. Jon Hare (NOAA, Northeast Fisheries Science Center, email [jon.hare@noaa.gov](mailto:jon.hare@noaa.gov)) and Dr. Bill Karp (School of Aquatic and Fishery Sciences, University of Washington; email [bkarp@uw.edu](mailto:bkarp@uw.edu)) can provide further information about ICES and its activities.

#### ***How to Apply***

Limited funding to support travel to the Annual Science Conference, via a NSF grant to Woods Hole Oceanographic Institution and the University of Maryland Center for Environmental Science, is available to encourage participation by researchers from U.S. academic institutions. Strong preference will be given to scientists within 7 years of receipt of the Ph.D. who are first-time ICES participants. Applicants should communicate with **Dr. Andy Solow** (Woods Hole Oceanographic Institution; email [asolow@whoi.edu](mailto:asolow@whoi.edu)), and **Dr. Dave Secor** (University of Maryland Center for Environmental Science; email [secor@umces.edu](mailto:secor@umces.edu)) and provide a copy of their accepted abstract for one of the 18 theme sessions listed below; a short statement of reasons for attending the meeting; and a brief biographical sketch or CV. Decisions on travel awards will be made by 20 July 2018.

NOTE: In order to qualify for full reimbursement of your ASC registration fee, please be sure to register by the Early Bird deadline of 31 July.

<http://ices.dk/news-and-events/asc/asc2018/Pages/default.aspx>

### Theme session A

#### ***Mesopelagic ecosystems: fish and invertebrate population biomass and biodiversity, and role in carbon flux***

Conveners: Webjørn Melle (Norway), Antonina dos Santos (Portugal), Peter. H. Wiebe (USA)

### Theme session B

#### ***Modernizing fisheries stock assessment and monitoring with genetic methods***

Conveners: Nathan G. Taylor (Canada), Rich Hillary (Australia), Pascal Lorance (France)

### Theme session C

#### ***Assessing and analysing marine spatial planning - knowledge - indicators - visions***

Conveners: Andrea Morf (Sweden), Kira Gee (Germany), Riku Varjopuro (Finland), Matthew Gubbins (UK)

### Theme session D

#### ***The Nordic seas and the Arctic – climatic variability and its impact on marine ecosystems, fisheries and policymaking***

Conveners: Harald Gjøsæter (Norway), Agnes Gundersen (Norway), Heino Fock (Germany)

### Theme session E

#### ***Cumulative effects assessment in the marine realm: approaches, examples and future needs***

Conveners: Vanessa Stelzenmüller (Germany), Marta Coll (Spain), Joachim Claudet (France)

### Theme session F

#### ***Bottom-up approaches: the contribution of marine benthos to management, conservation and monitoring, taking stock and setting research direction***

Conveners: Silvana Birchenough (United Kingdom), Ingrid Kröncke (Germany), Steven Degraer (Belgium)

### Theme session G

#### ***Ocean basin-scale research and management: challenges and opportunities***

Conveners: J. Murray Roberts (United Kingdom), Ellen Kenchington (Canada)

### Theme session H

#### ***Preparing for change; challenges for fisheries governance***

Conveners: Alida Bundy (Canada), Chris Cvitanovic (Australia), Annette Breckwoldt (Germany), Prateep Nayak (Canada)

### Theme session I, co-sponsored by PICES

#### ***Tipping points complex nature and implications to marine socio-ecological systems management***

Conveners: Xochitl Cormon (Germany), Camilla Sguotti (Germany), Christian Moellmann (Germany), Mary Hunsicker (USA)

### Theme session J

#### ***Survey data products for stock and ecosystem assessments: Challenges and future directions***

Conveners: Verena Trenkel (France), Sven Kupschuss (United Kingdom), Stan Kotwicki (USA)

### Theme session K

#### ***How are we managing? Developing new management tools for commercially exploited sharks and rays***

Conveners: Paddy Walker (The Netherlands), Ivone Figueiredo (Portugal), Jim Ellis (United Kingdom)

### Theme session L

#### ***Future-oriented seafood markets: economic dimensions, ecological compatibility and social aspects of fisheries and aquacultures***

Conveners: Cornelia Kreiss (Germany), Megan Bailey (Canada), Rasmus Nielsen (Denmark)

### Theme session M

#### ***Molecules and morphology: integrative taxonomic analysis of marine planktonic assemblages***

Conveners: Pennie Lindeque (United Kingdom), Lidia Yebra (Spain), Ann Bucklin (USA)

### Theme session N

#### ***Technical approaches to reduce the environmental impact of fishing***

Conveners: Dave Reid (Ireland), Daniel Stepputtis (Germany), Steve Cadrin (USA)

### Theme session O

#### ***Working toward an ecosystem approach to North Atlantic marine aquaculture***

Conveners: Gesche Krause (Germany), Jann Martinsohn (European Commission), Ryan B. Carnegie (USA)

### Theme session P

#### ***Electronic monitoring and movement analysis in fisheries: applications of emerging science***

Conveners: Neil Campbell (Scotland), Nicolas Bez (France), Chris McGuire (USA)

### Theme session Q, co-sponsored by PICES

#### ***Sustainability thresholds and ecosystem functioning: the selection, calculation, and use of reference points in fishery management***

Conveners: Daniel R. Goethel (USA), Henrik Sparholt (Denmark), Aaron M. Berger (USA), Xiujuan Shan (China)

### Theme session R

#### ***Towards a better understanding of human behaviour for improved fisheries science and management***

Conveners: Melania Borit (Norway), Bruce Edmonds (UK), M