

SCIENTIFIC PROGRAMME

Sixty minutes are allocated for each lectures in eight different sessions.

Session-I: Introduction

Session-II: Introduction to Arctic research

Session-III: Observing the Arctic environment

Session-IV: The Arctic Atmosphere

Session-V: Monitoring and forecasting the Arctic ocean and ice. Part 1

Session-VI: Monitoring and forecasting the Arctic ocean and ice. Part 2

Session-VII: Arctic ocean circulation

Session-VIII: The Marine Ecosystem of the Arctic Ocean.

Session-XI: Closing session.

ACCOMMODATION AND TRAVEL

Shared hostel/shared hotel accommodation support can be provided for Students, on request.

Travel supports for Indian participants are equivalent to 2 tire AC train fare from the shortest distance of their parent organisation, whereas accommodation may be provided on sharing basis only. For International participants: Economy airfare according to agreement with each selected participant.

Application Deadline

Please fill in the on-line application (<https://www.iaws2018.ncaor.gov.in>) no later than 30 July 2018.

For more details and updates, please see the website: <https://www.iaws2018.ncaor.gov.in>

ORGANISING COMMITTEE

Nuncio Murkesh, ESSO-NCAOR, India, Co-Chair

Lasse Pettersson, NERSC, Norway, Co-Chair

Divya David, ESSO-NCAOR, India

Bente E. Johannessen, NANSI, Norway

Nandini Menon, NERCI, India

Avinash Kumar, ESSO-NCAOR, India

Lalit Kumar Ahirwar, ESSO-NCAOR, India

Sourav Chatterjee, ESSO-NCAOR, India

DEADLINES AND IMPORTANT DATES

Public announcement : 01 June 2018

Student online applications due by : 25 July 2018

Evaluation and selection : 20 Aug 2018

Invitation to selected participants : 03 Sep 2018

Acceptance of participation : 10 Sep 2018

Organizing travel and visa invitation : 17 Sep 2018

Distribution of background information to

student participants : 01 Oct 2018

Start of research school : 28 Oct 2018

CONTACT DETAILS

Nuncio Murkesh

Phone No. +91-832-25256679,

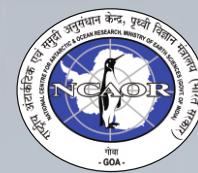
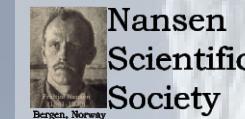
Fax No. +91-832-2520877

Mobile No. +91-9890357423

Email: iaws2018@ncaor.gov.in;
nuncio@ncaor.gov.in

Website: <https://www.iaws2018.ncaor.gov.in>

INTERNATIONAL INTERDISCIPLINARY PhD AND POST-DOC WINTER SCHOOL



The Arctic Ocean: atmosphere, ice and ocean interactions – implications for future climate and human activities

October 28-November 2, 2018

Sponsored by:
Research Council of Norway ARCONOR project,
Nansen Scientific Society and
Earth System Science Organisation , Govt of India

Organised by:
Earth System Science Organisation
National Centre for Antarctic and
Ocean Research

An autonomous body under the Ministry of
Earth Sciences, Govt. of India

Headland Sada, Vasco-da-Gama,
Goa 403 804, India

ABOUT THE SCHOOL

The consequences of climate change are particularly evident in the Arctic. Significant changes and reductions in Arctic sea ice extent and volume opens for expansion of economic activities such as shipping, tourism, fisheries, as well as gas and oil extraction. Changes in sea ice cover and distribution have and will have consequences for national and international management of and activities in the Arctic waters.

Towards this endeavour, both India and Norway are working together to understand the dynamics of Arctic Ocean and its implications for future climate and human activities. The Arctic region is of special importance due to its critical role in governing global climate, sea level and biodiversity. The scientific issues pertaining to the Arctic has significance much beyond its geographic extent, through atmospheric and ocean tele-connections influencing e.g. the warming of the Indian Ocean, sea level rise and marine ecosystem, etc. The knowledge gained in the Arctic will also be much beneficial to countries like India in developing strategies and missions to study the impacts of climate change.

Regionally and seasonally changing sea ice conditions influence accessibility and exploitation of natural resources, creating new challenges, needs, and opportunities. Sustainable activities in the Arctic require new multi- and cross-disciplinary knowledge addressing the sea ice and climate conditions, the state and changes of the environment, navigation and operational conditions, technology, economy, legal aspects, geopolitics etc. Satellite Earth observation data and model reanalysis are crucial sources of environmental information needed for safe and efficient operations in remote Arctic waters. This research school will provide the participants with adequate knowledge and strengthen cooperation between students and scientists from India, Norway, Europe, Russia and the USA sharing adequate knowledge.

Scientists and experts will contribute with 22 lectures, practical group work on four subjects and with interactive student group work and teacher sessions, as well as interactive reporting. The participating students (about 30) are required to contribute to and challenged to complete a (draft) student report during the course of the winter school. The purpose of this report is to be the basis for a peer-reviewed student-paper to be written and submitted after the research school for publication in an international scientific journal.

ABOUT PARTICIPATION

The total number of students is limited to 30 participants from India and abroad. Indian and international PhD students and Post-doc candidates in fields relevant to the overall topics (see lecture program) of the research school will be given preference in the selection of participants.

There is no participation fee for attending the research school. Accommodation at NCAOR campus or nearby Guesthouse (two in shared rooms), and three daily meals (see schedule), will be covered for all student participants. Students who will need travel support should indicate this in their application, including approximate funding needed. Indian students are expected to apply for domestic travel grant from their host university/institution. International students will be provided with an official invitation from ESSO-NCAOR and are responsible to apply for conference visa to India in due time.

WINTER SCHOOL COORDINATORS

M. Ravichandran

Director, National Centre for Antarctic and Ocean Research (ESSO-NCAOR), Goa, India

Lasse H. Pettersson

Director for International Cooperation, Nansen Environmental and Remote Sensing Center (NERSC), Bergen, Norway

Ola M. Johannessen

Nansen Scientific Society (NANSI), Bergen, Norway

RESOURCE PERSON

M. Ravichandran, ESSO-NCAOR, India

Shailesh Nayak, NIAS, India

Ola M. Johannessen, NANSI, Norway

Lasse H. Pettersson, NERSC, Norway

R. Krishnan, ESSO-IITM, India

Stein Sandven, NERSC, Norway

K. P. Krishnan, ESSO-NCAOR, India

Leonid P. Bobylev, NIERS, Russia

Elena Shalina, NIERS, Russia

Einar Olasson, NERSC, Norway

B. Kesavakumar, ESSO-NIOT, India

Richard Davy, NERSC, Norway

Anton Korosov, NERSC, Norway

Scott Stephenson, University of Connecticut, USA

Ashis Mitra, NCARWF, India

A. Prabhu, ESSO-IITM, India

Sandip Oza, SAC, ISRO, India

A. A. Mohamed Hatha, CUSAT, India

Divya David, ESSO-NCAOR, India

Sourav Chatterjee, ESSO-NCAOR, India

Subeesh, ESSO-NCAOR, India

SCIENTIFIC COMMITTEE

Chairman

Shailesh Nayak, NIAS, India

Members

M. Ravichandran, ESSO-NCAOR, India

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Lasse H. Pettersson, NERSC, Norway

Divya David, ESSO-NCAOR, India

Anton Korosov, NERSC, Norway

Richard Davy, NERSC, Norway

Ajith Joseph, NERCI, India