

Abstracts should be targeted at the named sessions.
Last day for electronic submission of abstracts

January 15th 2008.

For more information and submission of abstracts see the conference website.

The Conference will be held in association with the XXX
SCAR Meeting, which will include

- SCAR Business Meetings (St Petersburg, 5-7 July, 2008);
- The SCAR Delegates Meeting (Moscow, 14-16 July, 2008).

For information about registration for these meetings see the conference website.

<http://www.scar-iasc-ipy2008.org>
(from 20th October 2007)

Scientific Committee on Antarctic Research (SCAR)
International Arctic Science Committee (IASC)

Polar Research – Arctic and Antarctic Perspectives in the International Polar Year



SCAR/IASC IPY Open Science Conference

St. Petersburg, Russia
July 8th – 11th 2008

in association with the XXX SCAR Meeting



The IPY Joint Committee has endorsed this event as the first in a series of international interdisciplinary IPY conferences. It is therefore cosponsored by the International Council for Science (ICSU) and the World Meteorological Organisation (WMO). Sessions will take place in the Pribaltiskaya Hotel and at the Arctic and Antarctic Research Institute (AARI).



Science Sessions

Keynote Lectures

WEYPRECHT LECTURE

The Gamburtsev Mountains - an unexplored frontier

Robin Bell (USA)

Subglacial Lake Vostok: a new great challenge to the Antarctic Sciences

Vladimir Lipenkov (Russia)

The record of past climate change - ice core climate records from the poles

To be announced

Present and future Arctic and Antarctic climate change - a comparison

John Walsh (USA)

The changing Arctic Ocean – ocean warming and sea ice extent

Jean-Claude Gascard (France)

The effects of climate change in the poles - permafrost, geology, and geomorphology

Wayne Pollard (Canada)

Polar societies and cultures in a changing world

Yvon Csanika (Greenland)

Ice sheet mass balance and sea level

Ian Allison (Australia)

Polar ocean ecosystems and changing climate

Ulrich Bathmann (Germany)

Space Weather – fascinating science and auroral displays

Eigil Friis-Christensen (Denmark)



1.0 STATUS AND CHANGE

- 1.1 Earth Structure and Geodynamics at the Poles
- 1.2 Polar Ocean Processes – Status and Change
- 1.3 Evolving Coastal, Near shore and Shelf Processes in the Polar Regions
- 1.4 Shrinking Snow and Ice: Rapid Change in the Polar Regions
- 1.5 Past, Present and Future Polar Climate Change
- 1.6 Meteorological Processes in the Polar Regions
- 1.7 Polar Terrestrial and Freshwater Ecosystems: Status and Change
- 1.8 Polar Marine Ecosystems: Status and Change
- 1.9 Status and Change in Cultural Heritage Sites in Polar regions
- 1.10 Status and Change in the Polar Regions – General Session

2.0 POLAR/GLOBAL LINKAGES

- 2.1 Coupled Cryosphere/Ocean/Atmosphere Systems
- 2.2 Polar/Global Biological Connections
- 2.3 The Sun's Interactions with the Earth's Atmosphere and Electromagnetic Environment
- 2.4 Human Linkages: The History of Non-indigenous Peoples in Polar Regions - Impacts and Interactions
- 2.5 Polar/Global Linkages: General Session

3.0 A SENSE OF DISCOVERY

- 3.1 Deep Sub-ice Water, Hydrological Systems and Ice sheet Interactions
- 3.2 Frontiers in Polar Biology
- 3.3 Polar Microbes, Genetics, and Molecular Biology
- 3.4 Technological Advances and Polar Exploration
- 3.5 Polar Weather and Climate Forecasting
- 3.6 Frontiers in Polar Scientific Drilling
- 3.7 A Sense of Discovery – General Session

4.0 THE POLES AS A VANTAGE POINT FOR OBSERVATIONS

- 4.1 Polar Observing Systems
- 4.2 Astronomy and Astrophysics
- 4.3 New Ways of Looking at the Polar World
- 4.4 Earth's Magnetic Field: A View from the Poles
- 4.5 Accessing and Preserving Data as an IPY Legacy
- 4.6 The Poles as a Vantage Point for Observations

5.0 PEOPLE AND RESOURCES AT THE POLES

- 5.1 People and Change
- 5.2 Harvesting and Exploitation of Polar Biological Resources
- 5.3 Conservation, Tourism, and Visitor Management
- 5.4 The Role of Native Knowledge in Modern Polar Science
- 5.5 Arctic and Antarctic Archeology
- 5.6 Polar Bridges: Social Scientists and Natural Scientists Working Together
- 5.7 Polar History and Institutionalization of Polar Research: The International Polar Years
- 5.8 People and Resources at the Poles – General Session