

XXVIII SCAR Science Week

Bremen, Germany, 25–31 July 2004

- [SCAR Executive Committee Meeting, Brest, France, 11–15 July 2003](#)
- [XXVII SCAR Science Week Bremen, Germany, 25 –31 July 2004](#)
- [Appendix 1](#)
- [Appendix 2](#)
- [Appendix 3](#)
- [Appendix 4](#)
- [Appendix 5](#)
- [Acronyms and Abbreviations](#)

Antarctica and the Southern Ocean in the Global System

The Open Science Conference will take place at the Congress Centre, Bremen, Germany 26-28 July 2004. The Conference will be held in conjunction with the biennial meeting of SCAR's Standing Scientific Groups (XXVIII SCAR) and the annual meeting of the Council of Managers of National Antarctic Programmes (COMNAP XVI).

SCAR invites all scientists who are interested both in Antarctica and in the Southern Ocean to participate in the Open Science Conference in order to present their latest discoveries. It is anticipated that the results of the conference will influence the planning of SCAR's future Antarctic research programmes.

The Antarctic is now recognised as a vital element of the Earth system with strong atmospheric, oceanic, geological and biological links to conditions in the extra-polar regions. Recent rapid climate change in the Antarctic and the discovery of the Antarctic ozone hole have focused attention on the role of the continent in the global climate system and made scientists and the general public aware of possible human impact on the environment. Although the Antarctic is remote, it holds the longest ice core record of past climate available on Earth, has remarkable marine biodiversity and even, as yet unexplored lakes under the ice sheet.

The Conference will review our present understanding of the close couplings between the Antarctica, the Southern Ocean and other parts of the Earth System. Cross-disciplinary presentations are particularly welcome, as well as papers on Arctic-Antarctic linkages, requirements for new data, observational and modelling studies and activities linked to other international programmes.

The conference will consist of keynote presentations, cross-disciplinary sessions, more specialised parallel symposia and poster sessions. Oral presentations and posters are particularly welcome from students.

Papers are requested on all aspects of Antarctica and the Southern Ocean as related to the Earth System.

We particularly welcome papers on:

• Variability and change in the Antarctic Biota: molecules to ecosystems	• Arctic-Antarctic conjugacy
• Pelagic predators and the Southern Ocean System	• Evolution of the Antarctic and Southern Ocean climate and biota: the geological record
• Structure and function of Southern Ocean Ecosystems	• Antarctic neotectonics and geodesy
• Evolution of the Antarctic biota	• Growth of the Antarctic continent

• Ecology of the Antarctic sea-ice zone	• Antarctic permafrost
• Human responses to the Antarctic Environment	• Management and application of Antarctic geospatial information
• Ocean-atmosphere interactions	• Antarctica: From data management to information portals
• Climate history of the Antarctic	• Open Science Session (Geoscience, Life and Physical Science)
• Astronomy from the Antarctic	

Abstracts of talks or posters must be submitted by 15 January 2004 via the conference website: <http://www.scar28.org>

**XXVIII SCAR Delegates Meeting
Bremerhaven, Germany, 3-9 October 2004**

The SCAR Delegates Meeting will be held at the Alfred-Wegener-Institut für Polar- und Meeresforschung and at the Historisches / Morgenstern Museum, Bremerhaven. The duration of the meeting will ultimately be determined by the agenda and by the reports of the XXVIII SCAR Science Meeting; it may thus terminate before 9 October 2004.