

Scientific Committee on Antarctic Research (SCAR)

**SCAR XXXI
&
Open Science Conference**

Buenos Aires - Argentina, 2010



***Antarctica –
Witness to the Past and
Guide to the Future***



Second Circular



Event Dates

- 1) SCAR Business meetings (July 30-August 2)
 - 2) SCAR Open Science Conference (August 3-6)
 - 3) SCAR Delegates Meeting (August 9-11)
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Event Venue

Both SCAR XXXI & Open Science Conference share the same venue:

Hotel Panamericano Buenos Aires
Carlos Pellegrini 551
Buenos Aires, Argentina

www.panamericano.us/buenos_aires_business_hotel.htm

Event Website

Both SCAR XXXI & Open Science Conference share the same website:

www.dna.gov.ar/scar2010.htm

As soon as news and information related to the event is available, it will be immediately posted on the site.

A visa may be mandatory for citizens of certain countries to enter Argentina. Please check and be sure of this. A Visa support letter will be provided upon request.

Contact us at: scar2010oscinfo@dna.gov.ar

Open Science Conference Sessions

Session # Themes/ Session Titles

- | Session # | Themes/ Session Titles |
|-----------|--|
| I | CONNECTIVITY AND CROSS-SCALE INTERACTIONS |
| 1 | Electromagnetic propagation: thermosphere, mesosphere and atmosphere |
| 2 | Coupling of the lower, middle and upper atmosphere |
| 3 | Antarctic boundary layer: transport, air-snow exchange, aerosols and trace gases |
| 4 | Southern Ocean gateways and ocean-ice sheet interactions |
| 5 | Antarctic climate and links to the rest of the globe |
| 6 | Antarctic and South American climate: linking the past and present record |
| 7 | Data access and sharing for cutting edge science |

- 8 Evolution of the Antarctic continent and the global system
 - 9 Air-sea-ice interactions and shelf ocean processes
 - 10 Subglacial geophysics, sediments and biota
 - 11 Solar-terrestrial physics in polar regions
 - 12 Magnetic studies of the Antarctic
 - 13 Subglacial lakes-linkages with long-term ice-sheet behaviour
 - 14 Mapping Antarctica: ADMAP, BEDMAP, and other activities
 - 15 King George Island: model for interdisciplinary Antarctic science
- Open Session - Connectivity and Cross-Scale Interactions

II TIPPING POINTS

- 16 Biodiversity, biogeochemistry and climate in the Southern Ocean
 - 17 Global changes and Antarctic terrestrial biodiversity
 - 18 Retrospective studies of Southern Ocean food webs: a guide to the future
 - 19 Antarctic deglaciations: mechanisms, timing and character
 - 20 Southern Ocean circulation and the global climate system
 - 21 Earth Structure, Deformation, and Ice Sheet Evolution
 - 22 Climate and ecosystem changes in the Antarctic Peninsula region
- Open Session - Tipping Points

III ECOSYSTEM HEALTH

- 23 Phylogenetics and phylogeography of Antarctic microbial ecosystems
 - 24 Polar genomics, gene flow, population dynamics and adaptation
 - 25 Spring-time ecosystem processes in the Antarctic sea ice zone
 - 26 Top predators in Antarctic marine ecosystems
 - 27 Carbon uptake and acidification in the Southern Ocean
 - 28 Organisms: biogeochemical indicators of environmental change
 - 29 Acoustics in the marine environment
 - 30 Human biology and medicine
 - 31 Census of Antarctic Marine Life (CAML)
 - 32 UV in Antarctica: ecosystem effects and interactions with climate change
 - 33 Continuous Plankton Recording (CPR)
 - 34 Evolution of Antarctic organisms
 - 35 Biodiversity, ecosystem function and environmental change: past, present and future
- Open Session - Ecosystem Health

IV CONTINUITY AND CHANGE

- 36 Antarctic astronomy - witness to the distant past and guide to the distant future
- 37 Decadal ocean and atmospheric variability in the southern hemisphere
- 38 Long term data from Antarctic ecosystems
- 39 Permafrost and periglacial Antarctic environments
- 40 Quaternary upper ocean stratification, sea-ice and productivity
- 41 Comparison of Antarctic ice and sediment core climate records

42	Antarctic climate history over the last 200 years
43	Modern and paleotopographic/bathymetric reconstructions: Antarctic paleoenvironments
44	Dynamics of Antarctic ice streams and ice shelves: processes and patterns
45	Antarctic snow accumulation distribution from models, measurements and remote sensing
46	The Antarctic ice sheet: from inception to demise: data and models
47	Seeps and vents in Antarctica
48	Quaternary Southern Ocean intermediate and deep-water circulation
49	History of Antarctica and scientific research
50	Antarctic ice shelf disintegration and rapid environmental change
51	Status and trends in Antarctic sea ice
52	Weather and climate in Antarctica
53	Observing Antarctica from Space
	Open Session - Continuity and Change

Call for abstracts

Participants who would like to contribute with an oral or poster presentation must submit an abstract for consideration by the International Scientific Organising Committee (ISOC).

The ISOC will determine whether the abstract should be accepted for presentation. Consideration will be based on scientific merit, relevance to the theme of the session selected and to the general theme of the meeting "Antarctica-Witness to the Past and Guide to the Future".

The presenting author should ensure that all co-authors are aware of the content of the abstract before submission.

Only the abstracts of registered presenting authors will be included in the program and in the Conference book of abstracts.

Abstracts should be submitted in English and targeted at the named sessions (see *Open Science Conference Sessions*). Last day for electronic submission of abstracts: April 1, 2010. Submissions should indicate whether they are for oral or poster presentation.

Abstracts must contain no more than 250 words (350 words for SCAR Keynote Lectures).

Abstract text should be written contiguously, without paragraphs. No pictures and graphs are allowed.

Abstracts must reflect the essence of your presentation. A clear and simple style will be appreciated.

Please note, abstracts containing such phrases as "Results will be discussed" instead of a description of the results will be rejected.

Abbreviations are permitted but must be defined when mentioned for the first time.

The abstract body must contain only text, i.e. must not duplicate information about title, authors, etc.

- Format instructions:

- A4 page (210 x 297 mm) one side of paper
- Margins: Upper and lower margin: 3 cm, side margins 2.5 cm
- Fonts: Arial, 12pt (Titles), Arial, 11pt (Text)
- Single line-spacing
- Text processor: Word 97/2000/2003 (Note: For those using different versions or word processing programs, use the option "save as" to save your file with Microsoft Word 97/2000/2003/XP format)

- Manuscript organization:

- Title: capitals, centered, bold letters. Scientific names in Italics
- Leave one blank line (single line-spacing)
- Author(s): Centered, first letter in capitals, followed by commas and name initials (with point), followed by a superscript, to indicate the Institution (affiliation). Authors should be separated by commas, but the last author should be separated with "and".
Example 1: González, C.¹ and Bromberg, S.²
Example 2: González, C.¹, Pérez, J. R.¹ and Bromberg, S.²
- Leave one blank line (single line-spacing)
- Affiliation: Centered. Corresponding correlative number, with superscript font, including name of the Institution.
- Leave one blank line (single line-spacing)
- E-mail address only for the presenting author, centered, bold.
- Leave one blank line (single line-spacing)
- Keywords: Type "**Keywords:**" (only this word in bold) and next up to three keywords, left margin justified, separated by commas
- Leave one blank line (single line-spacing)
- Abstract text: left margin justified.

A template document to help the making of the abstract will be available on the conference website.

Oral - Speakers should confirm, upon their abstract being accepted, which audiovisual equipment they will require for presentation.

Ideally all oral presentations should use PowerPoint.

Posters - Instructions for preparation of posters will be available at the website in due course. Maximum size 0,90 m wide, 1,20 m long (vertical orientation).

Please do not make multiple submissions of the same abstract.

Requirements for oral presentation

- 1) All presentations should be created in Microsoft Power Point 2003 or lower. No *.jpeg* and *.pdf* files accepted. (Note: For those using different versions or presentations programs, use the option "save as" to save your file with Microsoft Power Point 97/2000/2003/XP format)
- 2) In case you are going to include movies in your presentation, DO NOT FORGET to copy not only the .ppt file, but also the movie file itself.

Submission

For abstract submission you should be pre-registered for the Conference using the pre-registration and submission procedure outlined at the event website.

Please make your abstract submission to: osc2010abstracts@dna.gov.ar with cc to: osc2010abstracts@gmail.com , and at the "Subject: " field remember to declare at what named session this presentation is targeted, i.e. "26 - Top predators in Antarctic marine ecosystems".

For consultation please contact us at: scar2010oscinfo@dna.gov.ar