

Report on Agend Item # 19 at the SSG-LS, XXXIth SCAR, Buenos Aires, 2010

19. 10th SCAR Biology Symposium (Mituso Fukuchi, NIPR, Japan)

Synopsis:

The Xth SCAR International Biology Symposium was held under the theme of “Antarctic Biology in the 21st Century—Advances in and beyond IPY—“ at the Conference Hall, Hokkaido University, between July 26-31, 2009. A total of 113 oral presentaitons and 122 poster presentations were given under six sub-themes. This special issue was edited by six guest editors under the Editor-in-Chief of “Polar Science”, in accordance with the editorial system of “Polar Science” and contains six review papers and 18 research papers.

Background:

In July 2006, at the XXXIXth SCAR meeting in Hobart, Australia, the SSG-LS decided that the venue for the Xth SCAR International Biology Symposium would be in Japan. Two years later in July 2008, at the XXXth SCAR meeting in St. Petersburg, Russia, the SSG-LS selected the main theme for the Xth symposium as "*Antarctic Biology in the 21st Century --Advances in and beyond IPY--*". This differs from the main themes of the previous nine symposia, which were selected to reflect the major areas of scientific interest at the time and reflecting the major SCAR Programmes in biology, and in particular was not targeted to any particular scientific discipline. Nevertheless, SCAR's single current biological research programme, “Evolution and Biodiversity in the Antarctic” (EBA), was to play a leading role in the structure of and presentations in the symposium. The Xth symposium was identified as a timely opportunity to focus on the early outcomes of the “IPY 2007-2008” (International Polar Year, March 2007-March 2009). The IPY 2007-2008 is organized by ICSU/SCAR (International Council for Science) and WMO (World Meteorological Organization), marking 50 years since the IGY (International Geophysical Year 1957-1958).

Objectives:

The Xth Symposium main theme covers new findings across Antarctic Biology gathered during the IPY period. In the context of the IPY, and differing therefore from previous symposia, issues such as bi-polar aspects and outreach programmes were included. The Local and International Steering Committees selected six sub-themes. The sub-themes in part were linked with the structure of SCAR's current Scientific Research Programme in Life Sciences, [EBA : Evolution and Biodiversity in the Antarctic \(www.eba.aq\)](http://www.eba.aq) in order to showcase EBA results. The symposium was open to all Antarctic scientists in the Life Sciences.

Sub-theme 1: Antarctic evolutionary history

----Lead Convener: Dominic A. Hodgson and co-conveners: Katrin Linse, Brigitte Ebbe

Sub-theme 2: Adaptation to extreme environments

----Lead Convener: Guido di Prisco and co-conveners: Takeshi Naganuma, Nobuyuki Miyazaki

Sub-theme 3: Marine biodiversity and processes

----Lead Convener: Graham Hosie and co-conveners: Lucia Campos, Kunio Takahashi

Sub-theme 4: Patterns and diversity in the terrestrial system

----Lead Convener: Satoshi Imura and co-conveners: Mark Stevens, Bart Van de Vijver

Sub-theme 5: Environmental change and the human factor

----Lead Convener: Dana Bergstrom and co-conveners: Julian Gutt, Takahiro Iida

Sub-theme 6: Outreach and education

----Lead Convener: Julie Hall and co-conveners: Takashi Ishimaru, Victoria Wadley

The Xth SCAR International Biology Symposium and its publication:

The final program of the symposium is available at

<http://biows.nipr.ac.jp/~plankton/scarbiologysymposium2009/>. The Symposium was attended by 255 established scientists and post-graduate students from 22 countries. There were 113 oral presentations including six key note talks and 122 poster presentations. The Local Organizing Committee (LOC) and International Steering Committee (ISC) of the symposium decided to publish a special volume for the Symposium, and an agreement was developed with Elsevier for achieving this as a special issue of the journal "Polar Science". The LOC and ISC established an editorial board to handle the submitted manuscripts for this special issue. The Guest Editors are Mitsuo Fukuchi (Japan: Chief), Dominic Hodgson (UK, sub-theme 1), Guido di Prisco (Italy, sub-theme 2), Graham Hosie (Australia, sub-theme 3), Peter Convey (UK, sub-theme 4) and Dana Bergstrom (Australia, sub-theme 5). A total of 32 manuscripts were submitted by the symposium participants. All manuscripts have been reviewed and edited in accordance with the editorial system of Polar Science. Finally, a total of 24 papers are published in this special issue. Some manuscripts, requiring further revision, are not included in this issue but they may subsequently be published in the normal series of "Polar Science".

Budgetary summary:

Summary of budgetary balance is summarize in the following table.

Summary of Budgetary Balance (Amount in Japanese million yen)

<u>Income:</u>		<u>Expenditure:</u>	
Source	Amount	Item	Amount
Registration fee	6.7	Conference hall charge (6 days)	1
SCAR fund	1.4	E/C production management	7.1
NIPR contribution	5	Polar Science (300 copies)	1.5
Private sector in Japan	1.8	Key note invitation	3
Sub total	14.9	Icebreaker	0.7
		Social activity cost	0.3
BBQ/Banquet fee	2	Student/Early career award	0.2
		Business meeting	0.2
		Other running cost	0.3
		BBQ/Banquet cost	2.3
Ground total	16.9	Ground total	16.6