

International Council for Science

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# SCAR **report**

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No 40  
September 2016

## **SCAR / IASC Think Tank**

### **24-25 February 2016**



**Scientific Committee on Antarctic Research**

at the

**Scott Polar Research Institute, Cambridge, United Kingdom**



# Arctic and Antarctic Think Tank

24-25 February 2016

INSELHOTEL, Potsdam, Germany



**Participants (Left to Right):**

Josefine Lenz, Lucilla Spini, Martin Schneebeli, Ruth Vingerhagen, Heike Midleja, Jenny Baeseman, Larry Hinzman, Azizan bin Abu Samah, Chuck Kennicutt, Terry Wilson, Vladimir Pavlenko, Karin Lochte, Susan Barr, Jerónimo López-Martínez, Volker Rachold, Naja Mikkelsen, and Huigen Yang.

## **Background**

SCAR and IASC have a long history of strong collaboration. As the Memorandum of Understanding between SCAR and IASC is up for renewal in 2016, it is an opportune time to revisit this agreement and further strengthen this collaboration. It is also important to note that the last full joint SCAR-IASC ExCom meeting was in 2013 and another one should be held soon.

SCAR recently completed a forward-looking vision of important Antarctic research questions. This is being complimented by the COMNAP follow up looking at logistics and technology needs. The past spring IASC went through the 3<sup>rd</sup> International Conference on Arctic Research Planning, which also produced forward-looking Arctic research needs. There are many overlapping issues that have arisen during these processes. To help advance Polar Science, efforts should be made to outline synergies.

In addition there are a number of other important factors for the two organizations to discuss. This includes the structure, composition, and goals of the 2018 POLAR conference to be held in Davos, Switzerland that need to be settled. The recent advances in the International Polar Partnership and in ICSU's Future Earth initiative should also be something discussed between these two leading international polar organizations. In addition, SCAR is undergoing a review by ICSU, and IASC is also undergoing an external review and a number of synergies that need addressing have resulted.

A 2-day brainstorming retreat was held in Potsdam, Germany the last week of February 2016 to begin to address these and other issues.

*The Agenda is given in Annex 1.1*

## **Opening**

The SCAR President Jerónimo López-Martínez and IASC President Susan Barr opened the meeting and welcomed all participants. Bryan Storey sent apologies for not being able to attend.

Chuck Kennicutt presented an update on the 1<sup>st</sup> SCAR Antarctic and Southern Ocean Horizon Scan and the COMNAP Antarctic Roadmap Challenges.

*The presentation is given in Annex 2.1*

IASC Executive Secretary Volker Rachold presented an update on ICARPIII.

*The presentation is given in Annex 2.2.*

## **Discussion on overlapping ideas and plans for combining results**

Reviewing the outcomes of SCAR's Horizon Scan and IASC's ICARP III, participants agreed that SCAR and IASC should create a mechanism for the two organizations to identify the top 5 most societally relevant questions of the changing polar regions, what the big limitations are for answering those questions and what is needed to address those limitations.

It was decided to establish a small joint **SCAR/IASC Polar Task Force** of a few strategic thinkers and doers to prepare a suggestion of a small number of polar (both Arctic and Antarctic) overarching themes that would benefit from extended international research coordination. The IASC Executive Secretary and SCAR Executive Director were asked to prepare Terms of Reference for the group, including a timeline of the activities. It was hoped

that the Task Force would be ready to meet for the first time at the upcoming SCAR Open Science Conference in August in Kuala Lumpur.

*Further details on the terms of reference for the Polar Task Force are given in Annex 3.*

## **SCAR and IASC Reviews – Synergies and Discussion**

The SCAR Executive Director Jenny Baeseman reported on SCAR activities the current ICSU review of SCAR. The IASC Executive Secretary Volker Rachold updated the meeting on IASC activities and results from its recent external review.

*The IASC Report is given in Annex 4.*

## **International Polar Partnership**

It was discussed that despite broad participation in the IPP Steering Committee the initiative did not receive strong support from the partner organizations. In particular, WMO and SCAR were not convinced that the initiative would be timely and needed. Hence it was decided to conclude IASC's participation in the IPP. It is agreed to present the decision to IASC Council and afterwards to partners. As the concept is already there, it was suggested that it might be worth revisiting the idea in ~5 years.

## **POLAR 2018**

SCAR and IASC agreed to convene a second joint science conference "POLAR 2018", which will be hosted by the Swiss Committee on Polar and High Altitude Research in Davos, Switzerland on 15-27 June 2018. The Swiss IASC Council Member and SCAR Alternate Delegate, Martin Schneebeli, provided a short report. The ASSW 2018 and SCAR Delegates Meeting will be held before and after the main open science conference respectively. More information can be found at <http://www.polar2018.org/>.

*The presentation is given in Annex 5.*

### *Discussion on conference format, chairs, goals*

It was suggested that an effort should be made to make sure there are plenty of opportunities for SCAR and IASC groups with similar interests to meet and discuss future joint work. It was also suggested that the IASC Council might want to consider meeting after the Open Science Conference and before the SCAR Delegates meeting to allow for a possible joint session.

The Co-Chairs for Polar 2018 will be:

Local: Martin Schneebeli, IASC Swiss Council member/ SCAR SWISS Alternate Delegate

IASC: Huigen Yang, IASC Vice-Chair / SCAR Chinese Delegate

SCAR: Karin Lochte, SCAR Vice-President / German IASC Delegate

## **Polar Policy Activities**

The SCAR Executive Director presented a status report on the SCAR policy. The IASC Executive Secretary presented a status report on the IASC policy. It was decided that the two groups might want to consider working together with partners to form a more coordinated polar policy effort to maximize impact.

## **International Council for Science (ICSU)**

Lucilla Spini, ICSU Head of Science Programs, presented an overview on ICSU. She suggested ICSU should organize a meeting with the Future Earth and ICSU Directors together with the SCAR Director and IASC Executive Secretary to better connect Arctic and Antarctic research activities to Future Earth and to discuss a way forward.

*The ICSU presentation is given in Annex 6.*

### **IPY Legacies, Outcomes from BiPAG and Joint Science Activities**

The IASC Executive Secretary mentioned the achievements of the past SCAR/IASC BiPolar Action Groups. The meeting discussed whether a new BiPAG was needed and it was decided that at this time, with the Polar Task Force and the POLAR2018, another BiPAG was not necessary.

It was noted that the IPY Website has some issues with links, etc. The meeting decided that where IASC, SCAR and APECS share responsibility for the legacy of IPY, it is not within their current capabilities to take on the IPY website. However, it was decided that all 3 organizations should have a section on their websites about IPY 2007-2009 for historical purposes. It was also decided that the Wikipedia page on the IPY needs to be updated and that the 3 organizations would work together, with APECS leading, to update this page for the records. It was also decided that the IPY books “Polar Science and Global Climate: An International Resource for Education and Outreach” and “Understanding Earth’s Polar Challenges: International Polar Year 2007-2008” should be featured highly as an important legacy products.

### **Early Career Researcher Support**

Both organizations shared their efforts on supporting early career researchers. IASC has a Fellows program where early career researchers are selected to help manage the IASC working groups for a set period of 3 years (first year financially supported to attend ASSW and 2nd and 3rd year to stay in involved in working group activities) – giving them experience in science management and international coordination and helping IASC with administrative tasks. SCAR has a Fellowship program where funding for a research project is awarded for the fellow to travel to another SCAR member country and engage in research to help their career.

It was decided that APECS would assist SCAR in developing a SCAR Junior Officers Programme similar to that of IASC’s Fellows to begin in 2018 or sooner.

The IASC Executive Secretary mentioned that the paper “Where are They Now” will be published soon on the ICARPIII website and in the Special Issue of Polar Science on ICARP III. This is an analysis of how travel funding provided by IASC has impacted early career Arctic researchers.

It was suggested that IASC and SCAR should consider a Polar fellowship (similar to SCAR’s fellowships) before or at 2018 conference or to have one for 2016 and 2017 and as the recipients to present at 2018 perhaps as a keynote. As Country membership is different between the two organizations, this would need to be considered when designing such a joint fellowship.

### **Awards**

It was suggested to announce a joint SCAR/IASC Polar Award for the 2018 POLAR Conference and to continue the award every five to ten years when there are joint conferences/events.

Lucilla Spini introduced the UNSECO/L’Oréal award. UNESCO and the L’Oréal Corporate Foundation seek to recognize women researchers who, through the scope of their work, have contributed to overcoming the global challenges of tomorrow. The award ceremony will

be held on 23rd March. Lucilla Spini offered to hold a seat for the ceremony and mentioned to invite other organization to participate.

### **Secretariats**

Both SCAR and IASC have small secretariats with high demands on staff. IASC has a distributed model with countries supporting full to part-time staff in their home country, but working for IASC. It was suggested that SCAR consider asking member countries to do something similar. The meeting also tasks the secretariats to make a list of tasks that could be shared between the two organizations – such as a joint Polar calendar, technical assistance for their Joomla! based websites, conference abstract system management, polar news feeds, etc.

It was also suggested that SCAR and IASC might consider a united approach to potential sponsors and foundations to raise additional funds, particularly for communication and policy related activities.

It was noted that APECS is looking for a host the Secretariat and IASC will also move from AWI at the beginning of 2017. SCAR's agreement for hosting at SPRI expires in August 2016.

### **Continued Cooperation**

The IASC Executive Secretary and the SCAR Executive Director were asked to update the SCAR/IASC MoU and to circulate. The MoU will be presented to IASC Council meeting at ASSW 2016 and later signed in Kuala Lumpur at SCAR Conference.

**Annex 1. Agenda**

**SCAR/IASC Arctic and Antarctic Think Tank  
24-25 February 2016  
Potsdam, Germany**

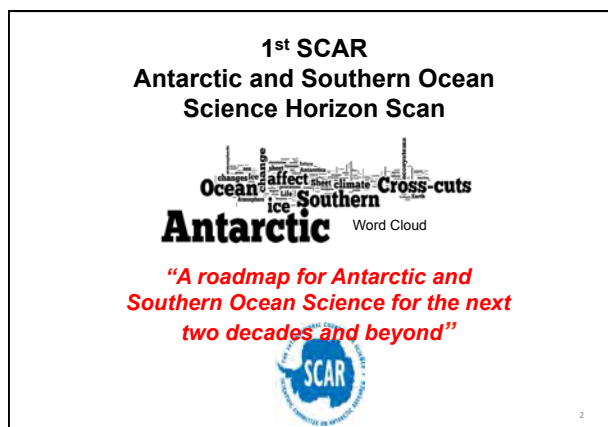
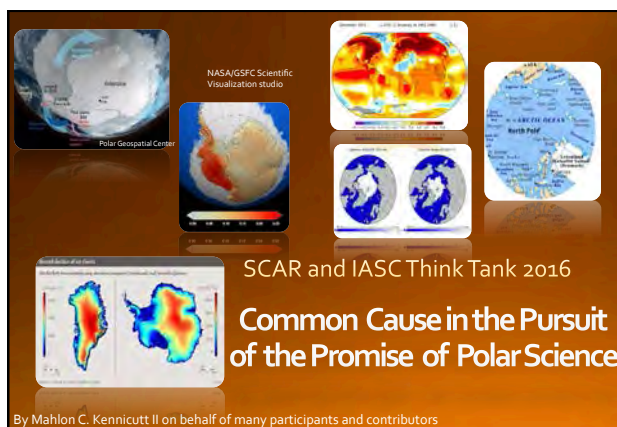
**Wednesday, 24 February**

13:00	Lunch
14:00 – 14:15	Welcome and Introductions - Jerónimo López-Martínez and Susan Barr
14:15 – 14:20	Logistics and Housekeeping - Volker Rachold
14:20 – 14:50	Update on SCAR Horizon Scan - Chuck Kennicutt
14:50 – 15:20	Update on ICARP III - Volker Rachold
15:20 – 16:00	Discussion on overlapping ideas and plans for combining results
16:00 – 16:30	Coffee break
16:30 – 17:00	SCAR and IASC Reviews – synergies and discussion - Jenny Baeseman
17:00 – 17:10	International Polar Partnership Update - Volker Rachold
17:10 – 17:30	Discussion on International Polar Partnership – Is it needed?
19:00 –	Dinner

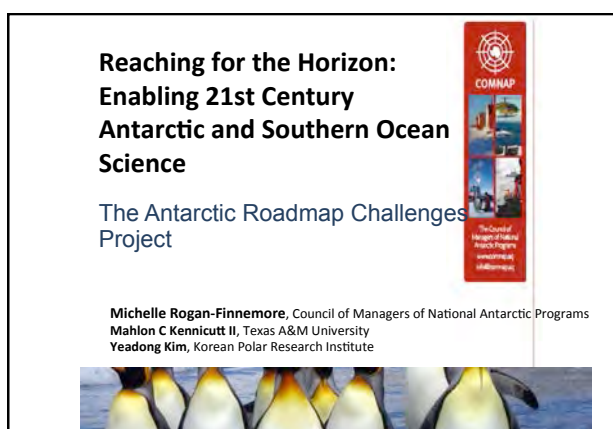
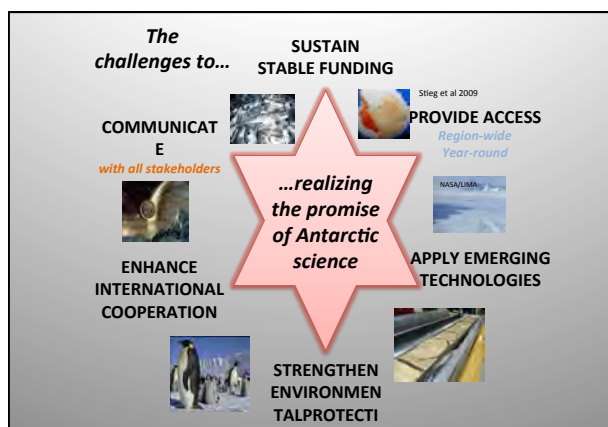
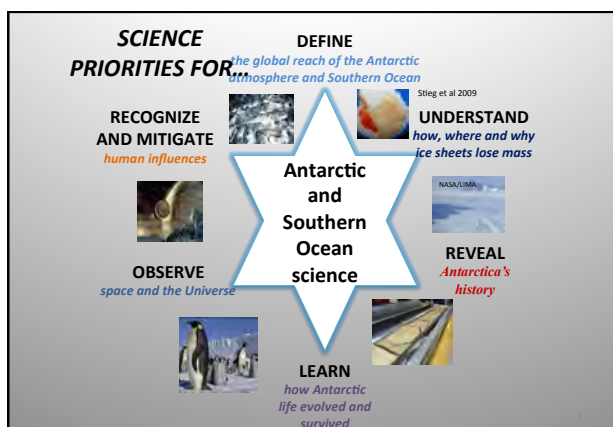
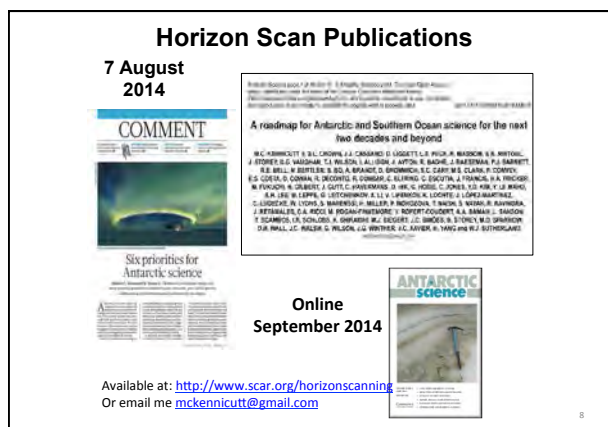
**Thursday, 25 February**

09:00 – 09:15	Preparations for POLAR 2018 - Martin Schneebeli
09:15 – 10:30	Discussion on conference format, chairs, goals
10:30 – 10:45	Coffee Break
10:45 – 11:00	SCAR Policy Activities - Jenny Baeseman
11:00 – 11:15	IASC Policy Activities - Volker Rachold
11:15 – 12:00	Discussion on potential joint policy related activities
12:00 – 12:30	ICSU Update: Future Earth and other plans - Lucilla Spini
12:30 – 13:00	Discussion on ICSU Polar Activities
13:00 – 14:00	Lunch
14:00 – 15:30	IPY Legacies, Outcomes from BiPAG and Joint Science Activities - Discussion lead by Volker Rachold and Jenny Baeseman
15:30 – 15:40	SCAR Communication, Outreach, Education and Fellowships - Karin Lochte
15:40 – 15:50	IASC Communication, Outreach, Education and Fellowships - Larry Hinzman
15:50 – 16:50	Joint Communication and Outreach Activities Discussion
16:50 – 17:00	SCAR Secretariat Plans - Jenny Baeseman
17:00 – 17:10	IASC Secretariat Plans - Volker Rachold
17:10 – 17:45	Joint Secretariat Function Discussion
17:45 – 18:15	Any other business / ideas
18:15 – 18:30	Resulting Action Items
18:30	Closure of Meeting
19:30 –	Dinner on your own





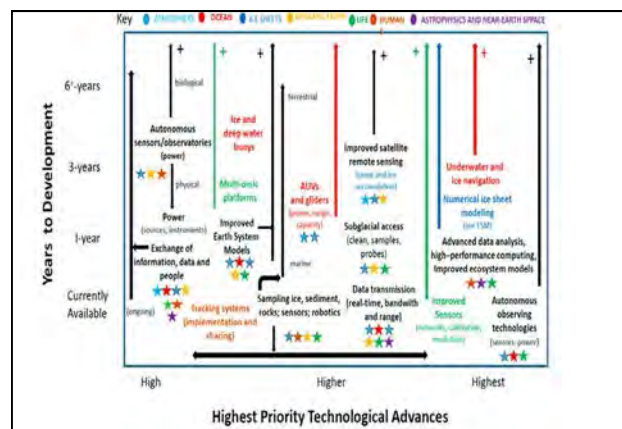




## Cross-cutting Technology

### Priorities

- **Improved bandwidth**
- **HP Computing** ('big data'; improved Earth system models)
- **Autonomous technologies** (tracking, calibration, interoperability)
- **Remote deployment/sensing** (UAVs, manned aircraft, AUVs, satellite)
  - Payloads
  - Sensors & Systems
  - Coupled with ground-truthing
- **Low power consumption technologies** coupled with renewable energy technologies with low/no emissions and operability unattended for 1-2 year periods (continent- and ocean-wide)
- **Improved energy generation/storage technologies**



## International Collaboration

Technologies with the greatest amount of green are those that require international collaboration which does not currently exist.



## Horizon Scan Cluster-specific Requirements

### Cluster 2: Southern Ocean and Sea Ice in a Warming World

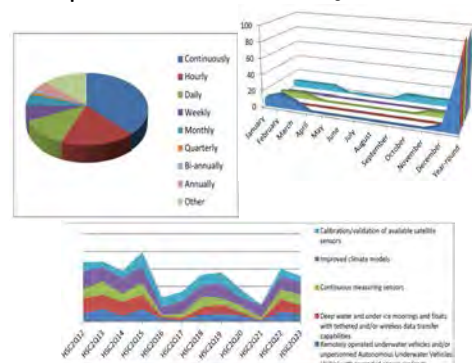
- Increased access to the **deep sea** and **near-shore**, coastal Antarctica
- Access to environments and regions **beyond the reach of current Antarctic stations** can be provided by **remote** observation technologies, **unmanned** observatories and **mobile** research facilities.
- **High priority areas:** sub-Antarctic islands, the Amundsen Sea, the western sector of Weddell Sea, Bellingshausen Sea, Eastern Ross Sea.

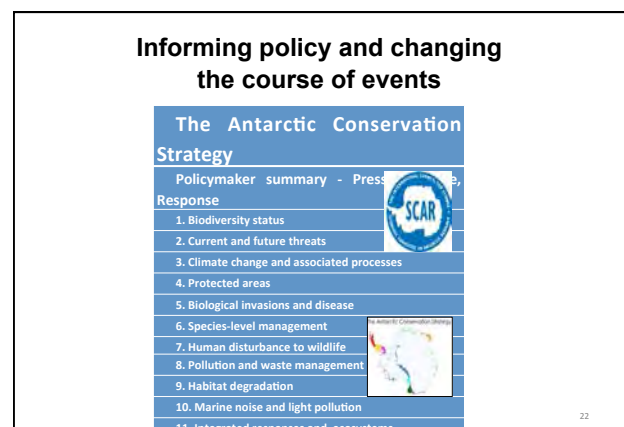
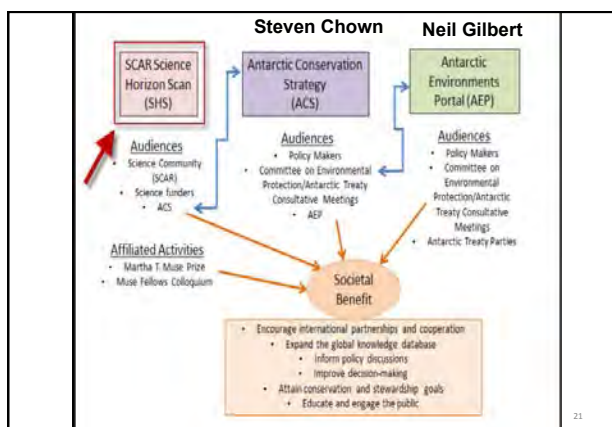
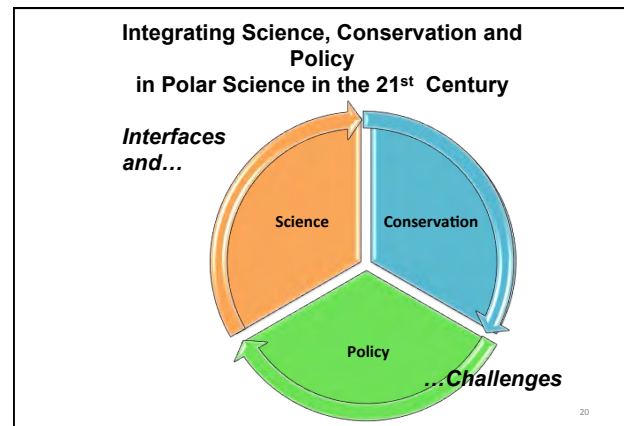
Infrastructure and logistics were deemed highest priority:

- Continuity, coordination, and year-round access to research capable **ice-breaker(s)**.
- Placement of ocean and sea ice observatories
- Data infrastructure (data sharing and data management systems).
- Underwater docking ports to support AUVs, UAVs, gliders, and moorings-greater automation.
- Interoperable underwater docking ports should be explored. Such docking stations must be capable of data collection and transmission and the provision of power to sensors and observatories.

## Horizon Scan Cluster-specific Requirements

### Cluster 2: Southern Ocean and Sea Ice in a Warming World





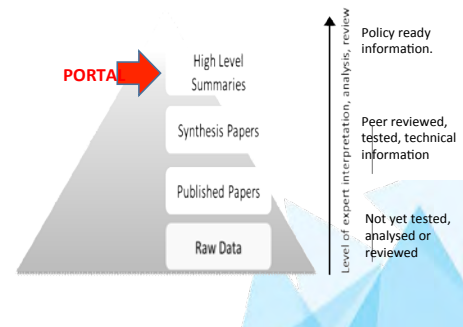


The Antarctic Environments Portal provides a mechanism to meet the urgent and increasing need for information for Antarctic management by

- Placing Antarctic science at the fingertips of policy makers
- Providing independent, reliable, up-to-date, policy ready summaries on priority issues
- Raising awareness of emerging issues



### Where the Portal fits in



### Intended Outcomes

- Informed management and governance
- Enhanced basis for addressing priority issues
- Enhanced decision making
- Application of modern conservation and management approaches
- A sustainable Antarctica and Antarctic Treaty System



Antarctic and Arctic communities benefit from working together toward shared goals and objectives.

Strength through cooperation and partnerships from pole-to-pole.



Common cause in science, technologies, infrastructure and informing policy



29.06.16



29.06.16

**ICARP III Activities**

included workshops, writing team meetings, conference sessions, townhall meetings, outreach and capacity building events etc., organized around 4 themes:

- Climate System and Transformations
- Societies and Ecosystems
- Observing, Technology, Logistics and Service
- Outreach and Capacity Building



**What are the outcomes of ICARP III?**

**Activity Summaries & Reports**

All ICARP III partners played a role in shaping the future of Arctic research needs

**Consensus Statement**

**ICARP III Final Report**


**Roadmap**

**Primary audience:**

- Science funders and decision makers
- Policy makers

**Users:**

- Indigenous and Local people
- Scientific community
- Next Generation



**ICARP III**

To be presented at <http://assw2016.org>

**ARCTIC SCIENCE SUMMIT WEEK 12-13 MARCH 2016**

**Integrating Arctic Research - a Roadmap for the Future**

**3rd International Conference on Arctic Research Planning ICARP III**



**ICARP III**

**Key Research Priorities**

- (1) The Role of the Arctic in the Global System
- (2) Observing and Predicting Future Climate Dynamics and Ecosystem Responses
- (3) Understanding the Vulnerability and Resilience of Arctic Environments and Societies and Supporting Sustainable Development



**ICARP III**

**Overarching Messages**

- Facilitating science-policy knowledge transfer between the research community and end-users
- Incorporating traditional and local knowledge and engage northern and indigenous communities in setting priorities
- Building long-term human capacity among researchers, decision-makers and Arctic indigenous and non-indigenous residents



**ICARP III**

**Integrating Arctic Research - A Roadmap For The Future**

**ICARP III**

**THEMES**

**PARTICIPANTS**

**LATEST NEWS**

<http://icarp.iasc.info>





***Annex 3. Terms of Reference for SCAR/IASC Polar Task Force***

„Common Cause in the Pursuit of the Promise of Polar Science“

Create a Polar Task Force for a few strategic thinkers and doers with the following objectives:

- identify top 5 (most societally relevant) impacts of the changing polar regions (small number, need to be selective – can't do everything) (need overarching criteria on how to identify them, where do we make the biggest progress/biggest impact, short term and long term thinking)
- identify what the big limitations are for answering those questions/understanding
- identify what is needed to address those limitations
- what would be the result(s) if it happened
- plan what to do with this information –
  - who do we share it with (specific people/organizations)
  - how do we package it
  - what is needed to 'market' it
  - who will do what, by when, how will 'success' be evaluated

It was agreed that Chuck Kennicutt would chair this group and that participations would be decided on by both the SCAR and IASC Executive Committees.

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## AN INTERNATIONAL REVIEW AND RECOMMENDATIONS FOR THE FUTURE

**Tasks**

- Evaluate IASC's activities over the 10-year period 2006-2015
- Recommend strategies for the future.

**Membership**

- **Colin Summerhayes**, Scott Polar Research Institute, UK (Chair)
- **Gunn-Britt Retter**, Saami Council, Norway
- **Penny Wagner**, Norwegian Meteorological Institute, Norway
- **Craig Tweedie**, The University of Texas at El Paso, USA
- **Hong Kum Lee**, Korea Polar Research Institute, Korea
- **Tatiana Vlasova**, Russian Academy of Science, Russia

IASC Review 2015/2016

## Main Recommendations

**Key Theme 1: Planning**

- Develop five-year Strategic Plan
- Develop Working Group plans

**Key Theme 2: Funding**

- Consider creating a Development Committee
- Reconfigure IASC operations to accept external contributions

**Key Theme 3a: Science – Global**

- Focus on ICARP III priorities
- Develop 'Grand Challenge'-type cross-cutting programs
- **Ensure that IASC's and SCAR's activities contribute to Future Earth**

**Key Theme 3b: Science - Range**

- Demonstrate links to other Arctic science activities
- Expand range of topics
- Develop Observing System

## Main Recommendations

**Key Theme 3c: Science – Structure**

- Develop cross-discipline thematic activities
- Produce outcomes from all IASC activities

**Key Theme 4: Branding**

- Various recommendations to position IASC as a service provider (in addition to its role as a scientific research facilitator)

**Key Theme 5: Linkages**

- Improve link to Arctic Council
- Closer link to FARO
- **Stronger bipolar connections**

**Key Theme 6a: People – Fellows**

- Clarify and extend IASC expectations for Fellows' participation

## Main Recommendations

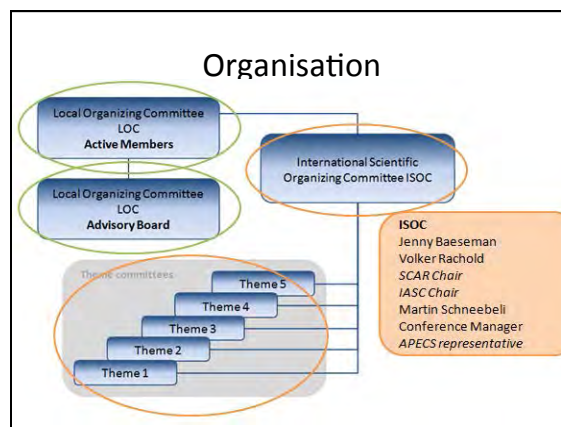
**Key Theme 6b: People – Indigenous**

- Stronger IASC public outreach efforts and mechanisms for strengthening relationships with indigenous and local communities

**Key Theme 7: Raising Awareness of IASC's Contributions**

- Encourage ALL national representatives to see themselves as the main avenues of communication back to their respective nations
- Ensure that all IASC scientists know that their publications or presentations regarding IASC science or made possible with IASC funding **MUST** acknowledge IASC's contribution

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### Simple Program

- 15 - 18 June 2018 SCAR and IASC/ASSW Business & Satellite Meetings (full conf. center)
- 19 - 23 June 2018 SCAR/IASC Open Science Conference (partial CC)
- 25 - 27 June 2018 SCAR Delegates Meeting (partial CC)

### Current status

- Conference Center booked
- LOC is complete (Chair: Prof. Michael Lehning)
- Advisory LOC is complete
- ISOC must be defined (Martin Schneebeli is link between LOC and ISOC)
- An ISOC meeting should be scheduled in June 2016.

### Registration fees

- comparable to SCAR-OSC 2016

Category	Fee	Details	assumed % of total registrations
Early bird	CHF 550	1 January - 31 March 2018	55
Regular	CHF 630	1 April - 25 May 2018	15
Student	CHF 330	enrolled at a tertiary educational institution, with valid ID	20
Late/on-site rate	CHF 730	26 May until on-site	5
Day-pass	CHF 280	on-site only	5
Accompanying person	CHF 120	Gives access to conference dinner (does not count for budget)	---

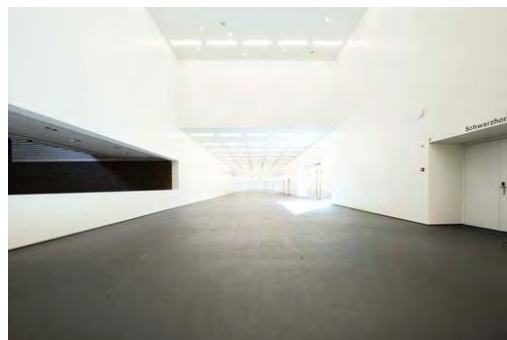


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Entrance



entrance hall (posters)



Plenary hall



Aspen (presentation, delegates)



  
**The International Council for  
Science (ICSU)**  
*strengthening international science for  
the benefit of society*  
  
**Lucilla Spini, D.Phil.**  
**Head of Science Programmes**  
**International Council for Science (ICSU)**  
  
SCAR/IASC Think Tank  
25 February 2016

  
  
**Rover disguised as penguin chick does research better than scientists**  
SCAR website 10 December 2014

2

**Overview**



- Introduction to ICSU
- Update on
  - Interdisciplinary Bodies (e.g., Future Earth)
  - Science-for-Policy: SDGs/GSDR
  - Partnerships (*Science International* series)
- *Planning ... ICSU Strategic Plan III & more*

3

**Introduction to ICSU**



- **Mission**  
*to strengthen international science for the benefit of society*
- **Membership**
  - 122 National Scientific Bodies
  - 31 International Scientific Unions
  - 22 Associates (e.g., **IASC**)
- **Secretariat and Regional Offices**
  - Paris
  - Africa (Pretoria)
  - Latina America (Mexico City)
  - **Asia & Pacific** (Kuala-Lumpur)

4

**Introduction to ICSU**



- **Executive Board**
  - President:  
Prof. Gordon McBean (Canada)
  - President-elect:  
Prof. Daya Reddy (South Africa)



- **Policy Committees**
  - CSPR – Committee on Scientific Planning and Review
  - CFRS – Committee on the Freedom and Responsibility in the conduct of Science

5


**Interdisciplinary Bodies**



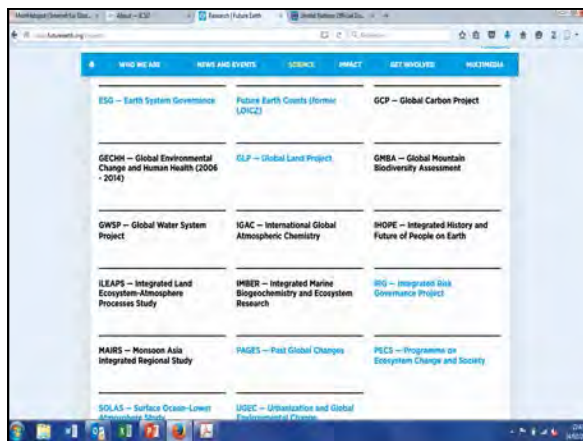
- **16 ICSU Interdisciplinary Bodies**  
(e.g., WCRP, CODATA, WDS, Future Earth)



- **Future Earth:**
  - Secretariat – multi-hubs
  - Projects – transitioning
  - Knowledge Action Networks (KAN)



6



## Science-for-Policy: SDGs/GSDR

- ICSU is accredited to ECOSOC
- ICSU with ISSC & WFEO co-organizing partner of the Scientific and Technological Community Major Group
- ICSU/ISSC Series on SDGs (Report on Targets)
- ICSU is strengthening linkages with UN DESA (via its CSPP) on the Global Sustainable Development Report (GSDR) – briefs/EGM  
<https://sustainabledevelopment.un.org/globalsreport/2016>



9



## Partnerships: “Science International” series

- 2015 Edition – in South Africa
- The International Accord “Open Data in a Big Data World” Principles of Open Data
  - Responsibilities
  - Boundaries of openness
  - Enabling practices

### ❑ Campaign:

Over the next 12 months, the campaign will collect endorsements for the accord from other science, education and policy bodies  
<http://www.codata.org/>



11

## Planning .... Strategic Plan

- Strategic Plan II (2012-2017)
  - International Research Collaboration
  - Science for Policy
  - Universality of Science
- Strategic Plan III – plus
  - Strategy on Early-Career Scientists
  - Strategy on Gender
  - Regional Strategy



12





**Annex 7. Meeting Participants**

First Name	Last Name	Email Address	Role
Jerónimo	López-Martínez	<a href="mailto:jeronimo.lopez@uam.es">jeronimo.lopez@uam.es</a>	SCAR ExCom
Karin	Lochte	<a href="mailto:Karin.Lochte@awi.de">Karin.Lochte@awi.de</a>	SCAR ExCom
Terry	Wilson	<a href="mailto:wilson.43@osu.edu">wilson.43@osu.edu</a>	SCAR ExCom
Azizan	bin Abu Samah	<a href="mailto:azizans@um.edu.my">azizans@um.edu.my</a>	SCAR ExCom
Jenny	Baeseman	<a href="mailto:jbaeseman@gmail.com">jbaeseman@gmail.com</a>	SCAR ExCom
Susan	Barr	<a href="mailto:susan.barr@ra.no">susan.barr@ra.no</a>	IASC ExCom
Naja	Mikkelsen	<a href="mailto:nm@geus.dk">nm@geus.dk</a>	IASC ExCom
Larry	Hinzman	<a href="mailto:ldhinzman@alaska.edu">ldhinzman@alaska.edu</a>	IASC ExCom
Huigen	Yang	<a href="mailto:yanghuigen@pric.org.cn">yanghuigen@pric.org.cn</a>	IASC ExCom
Vladimir	Pavlenko	<a href="mailto:chairman.arhsc@mail.ru">chairman.arhsc@mail.ru</a>	IASC ExCom
Volker	Rachold	<a href="mailto:volker.rachold@iasc.info">volker.rachold@iasc.info</a>	IASC ExCom
Heike	Midleja	<a href="mailto:Heike.Midleja@iasc.info">Heike.Midleja@iasc.info</a>	IASC Secretariat
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Martin	Schneebeli	<a href="mailto:schneebeli@slf.ch">schneebeli@slf.ch</a>	Chair of LOC for POLAR 2018
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Note: FARO and Future Earth were also invited, but declined.