

PAG 2018 Spring meeting

POLAR 2018

Davos | Switzerland

Date & Time: 8:50 – 16:30, 18 June (Mon.) 2018

Venue: The congress centre Davos, Rm A Dischma



PAG 2018 Spring meeting

Welcome & Introduction
(& Review of Agenda)



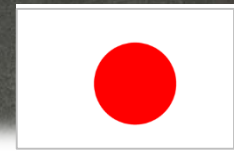


Pacific Arctic Group

- The Pacific Arctic Group (PAG) is an informal group of organizations and individuals having a Pacific perspective on Arctic science.
- Originally organized under the International Arctic Science Committee (IASC), the PAG is now an independent affiliate of the IASC and has as its mission to serve as a Pacific Arctic regional partnership to plan, coordinate and collaborate on science activities of mutual interest.



Group photo
at PAG 2017 Spring meeting
during ASSW 2017 in Prague



POLAR Expo: poster presentation

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POLAR 2018 - A SCAR & IASC Conference - on June 13-24, 2018 in Davos, Switzerland



The Pacific Arctic Group (PAG) - A Pacific perspective on Arctic science -

Takashi Kikuchi¹, Jianfeng He², Sung-Ho Kang³, William J. Williams⁴ and Jacqueline M. Griesmer⁵
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² SCA Res Laboratory for Polar Science, Polar Research Institute of China (PRIC)
³ Division of Polar Ocean Sciences, Korea Polar Research Institute (KOPRI)
⁴ Institute of Ocean Sciences, Fisheries and Oceans Canada (IOOS/IOO)
⁵ Chesapeake Biological Laboratory (CBL), University of Maryland Center for Environmental and Estuarine Science (UMCES)

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- Originally organized under the International Arctic Science Committee (IASC), the PAG is now an independent affiliate of the IASC and has as its mission to serve as a Pacific Arctic regional partnership to plan, coordinate and collaborate on science activities of mutual interest.
- PAG is engaged in project development and sampling in the Pacific Arctic Region in rapid transition to investigate climate, oceanography, air-sea ice interactions, ecosystems, and modeling.
- PAG continues to develop and implement long-term monitoring activities such as the Distributed Biological Observatory (DBO) and Pacific Arctic Climate Ecosystem Observatory (PACEO).



PAG Objectives

- i. To identify gaps in knowledge and priority research needs across the Pacific Arctic Region (PAR) and seek means to implement programs and activities that address them.
- ii. To facilitate and coordinate science operations among PAG member countries.
- iii. To promote and facilitate data accessibility and integrated data bases for the region.
- iv. To serve as a forum for information exchange on PAR science programs.
- v. To establish and maintain a direct link between PAG and other relevant science organizations.

- For these purposes, we have PAG Spring & Fall meetings.
- ✓ The Spring field meeting is held during "Arctic Science Summit Week" and is focused on "business" issues and an update on research plans for the coming field season.
 - ✓ The Fall field meeting is hosted at various locations in alternating PAG countries after the field season and is focused on review of PAG accomplishments during the season and outlooks for the future.

Sharing information on annual field activities

2018 PAR and DBO field activities

Activity	Location	Start Date	End Date	Lead
Arctic Science Summit Week	Barrow, Alaska	June 10-14	June 14	William J. Williams
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PAG Endorsed long-term monitoring activities

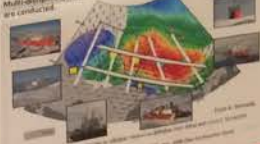
Distributed Biological Observatory (DBO)

DBO sites (red boxes) are regional "hotspots" transect lines and stations located along latitudinal & longitudinal gradients.

- DBO sites are considered to exhibit high productivity, biodiversity, and several other key characteristics.
- DBO sites serve as a change-detection array for the identification and consistent monitoring of biophysical responses.
- Sites occupied by national and international entities with shared data plan.

Pacific Arctic Climate Ecosystem Observatory (PACEO)

PAGEO is a long-term monitoring activity, "PACEO" main target area of PACEO is the higher Pacific Arctic Region where the impact of sea ice reduction has recently become the greatest. The area of observing interest includes the outer shelf of the East Siberian and Chukotka Seas northwards to the shelf extending from the Makarov Basin to the West to the Canada Basin in the first multi-observatory studies for sea-ice-ecosystem monitoring, including climate and biological data.



For more info: <https://pag.arcticportal.org/>

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INTERNATIONAL SCIENCE INITIATIVE IN THE RUSSIAN ARCTIC - ISIRA Advisory Group

TABLE 1. ISIRA ADVISORY GROUP MEMBERS



ISIRA is a network of international scientists and researchers working in the Russian Arctic region. The group is focused on understanding the impact of climate change on the Arctic environment and the role of the Arctic in the global climate system.

ISIRA WORKSHOP



OUTREACH AND SUPPORT



EXPERIMENT



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For more info: www.isira.info/

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IASC SECRETARIAT



The IASC Secretariat is responsible for the day-to-day operations of the International Arctic Science Committee. It provides administrative support and coordinates the activities of the IASC member organizations.

Supporting the leading group



For more info: www.iasc.info/

Parkgeschoss

- Rosa: Anhängervorrichtungen für Posterboards (1m)
- Orange: Anhängervorrichtungen für Posterboards (1m)
- Blau: Stellwände (1,20m) oder Posterwände (1,10m) einseitig
- Grün: Stellwände (1,20m) oder Posterwände (1,10m) doppelseitig

Wandelhalle
Posterboards = 69
Stellwände/Posterwände = 12
Stellwände/Posterwände (doppelseitig) = 36x2 = 72
Total: 153 Posters

A Flöela
Stellwände/Posterwände = 27
Stellwände/Posterwände (doppelseitig) = 6x2 = 12
Total: 39 Posters

Foyer A2
Posterboards = 20
Stellwände/Posterwände = 31
Stellwände/Posterwände (doppelseitig) = 4x2 = 8
Total: 59 Posters

Foyer C1
Posterboards working groups IASC+SCAR = 59
Posterboards = 6
Stellwände/Posterwände = 10
Total: 75 Posters

TOTAL PARKGESCHOSS = 326 Posters

Posterboards und Stellwände nach Verfügbarkeit



**PAG
Poster**

reception

**PAG
2018
Spring
Meeting**



Pacific Arctic Group

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PAG 2017 Spring meeting
in Prague, Czech Republic, on April 2, 2017



PAG 2017 Fall meeting
in Seattle, US, on November 6-7, 2017



Pacific Arctic Group

- For this meeting

"Windows PC" is prepared for the presentation of this meeting. Please put your presentation file (Powerpoint or pdf file) onto that PC and use this PC for your presentation. If you need to use your PC because of some reasons, please let me know it.

- ✓ Note that your presentation file will be open from PAG website (<https://pag.arcticportal.org/>) with your permission.

- I would like to take a video during this meeting. It is only for use of making a minute of this meeting. Please allow me to take the video for this purpose. Thanks for your cooperation.

PAG 2018 Spring Meeting

Review of Agenda

9:00

1. Update plans for 2018 field season (20min. each including Q&A)

- Canada: **Kristina Brown**
- China: **Jianfeng He**
- Japan: **Shigeto Nishino**
- Korea: **Eun Jin Yang**
- Russia: NABOS (**Igor Polyakov** presented by Takashi Kikuchi)
Lena Project (**Igor Semiletov** presented by Takashi Kikuchi)
- United States: **Jackie Grebmeier**

(Health break)

2. Updates for planning of PAG related activities (15 min. each)

- NOAA Arctic Research Program update (**Emily Osborne**)
- Status report on WGICA activities (**John Bengtson**)
- Update on Pacific Arctic synthesis activities for input to the Working Group on Integrated Ecosystem Assessment of the Central Arctic Ocean (WGICA) and Pew Charitable Trusts CAO activities (**Jackie Grebmeier** /Henry Huntington)
- Fish in the central Arctic Ocean

(Lunch Time)

PAG 2018 Spring Meeting

13:00

3. Status report on PAG-endorsed activities

3-1. Pacific Arctic Climate Ecosystem Observatory (PACEO) (Sung-Ho Kang-lead, 45 min.)

- Brief overview of 2017 PACEO results and 2018 plan of work (5 min each)
 - ✓ Physical Oceanography (**Kyoung-Ho Cho**)
 - ✓ Chemical Oceanography (**Jinyoung Jung/Jisoo Park**)
 - ✓ Biological Oceanography (**Hyoung Sul La/Eun Jin Yang**)
 - ✓ Sea-ice Study (**Joo-Hong Kim**)
 - ✓ WebGIS-KAOS (**Junhwa Chi/Hyun-Cheol Kim**)

3-2. Distributed Biological Observatory (DBO) (Jackie Grebmeier-lead, 45min)

- Brief update of recent activities and results for DBO
 - ✓ USA DBO results (**Jackie Grebmeier**)
 - ✓ Ocean Acidification in the DBO, 2017 (**Jessica Cross**)
 - ✓ Japan DBO results (**Shigeto Nishino**)
 - ✓ Korean DBO results (**Jin Young Jung**)
- Brief update of other DBO results from the 4th DBO data meeting held Nov 2017 (**Jackie Grebmeier** or others TBD)
- Deep Sea Research - DBO Special Issue update (**Jackie Grebmeier**)

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4. PAG Synthesis activities (5-10 min. each)

- Gordon Research Seminar/Conference (**Jean-Eric Tremblay**)
- IUGG 2019 (**Takashi Kikuchi**)
 - "The North Atlantic-Arctic system: State, Process, and Change"
 - "Atmosphere-Ocean-Sea Ice Interactions: Local Processes and Global Implications"
- Ocean Obs.2019 (**Takashi Kikuchi**/Jianfeng He)
(Group photo & 1500-1520; Group photo & Health break)

5. Interactions with other organizations and activities (5-10 min. each)

- Arctic Science Agreement Propels Science Diplomacy (**Paul Berkman**)
- Synoptic Arctic Survey (**Øyvind Paasche**)
- Antarctic and Arctic Ecosystems (AnT-ERA & DBO joint) Workshop (**Monika Kedra**/ Jackie Grebmeier)
- Innovative Technology for Arctic Exploration (ITAE) Program (**Jessica Cross**)
- The Nansen Legacy Project and Linkage to Chukchi Sea Research Efforts (**Marit Reigstad**)
- Ecosystem Studies of Subarctic and Arctic Seas (ESSAS) (**Sei-ichi Saitoh** presented by Takashi Kikuchi)
- **PICES 2018 in Yokohama on 24 Oct. - 4. Nov. (Sei-ichi Saitoh)**
- Arctic Observing Summit (**Hajo Eicken** presented by Takashi Kikuchi)

PAG 2018 Spring Meeting

6. PAG structure

- Executive committee composed of
PAG Chair (Takashi Kikuchi), Vice-Chairs (Jianfeng He and Bill Williams), and
leads from each of PAG activities: DBO (Jackie Grebmeier), PACEO (Sung-Ho Kang),
- Current rotation plan: Chair and Secretariat
2014-2016 – Korea (Sung-Ho Kang, KOPRI)
2016-2018 – Japan (Takashi Kikuchi, JAMSTEC)
2018-2020 – China (Jianfeng He, PRIC)
2020-2022 – Canada, Russia, US?

7. Future PAG meetings

ASSW 2018 – Davos, Switzerland (June 18, 2018)

Fall 2018 – Hakodate, Japan (November 5-7, 2018)

ASSW 2019 – Arkhangelsk, Russia (**May 22-30**, 2019)

Fall 2019 – China (Oct. or Nov. 2018)

ASSW 2020 – Akureyri, Iceland (spring, 2020)

Fall 2020 – Canada? US?

18:30

8. End of meeting (16:30)

CAO Pew dinner meeting

PAG 2018 Spring Meeting

Let's start !!

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