



Arctic Science Summit Week & Arctic Observing Summit

12–18 March 2016
Fairbanks, Alaska USA

assw2016.org

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#ASSW2016, #AOS2016

PROGRAM

Contents

Schedule Overview	4
Sustainability.....	4
Registration Desk Hours and Locations	5
Food and Drink	5
Exhibitors.....	5
Plenary Speakers.....	6
International Arctic Assembly Day.....	8
ASSW Business Meetings	
IASC • APECS • EPB • FARO •	
NySMAC • PAG • SAON • UArctic	10
Arctic Observing Summit 2016	13
Side Meetings for Other Groups.....	21
Public Events	26
Model Arctic Council	30
Alaska Arctic Council Host Committee	31
All Events Listed by Day	32
Transportation	36
Map: Off Campus Locations	37
Map: UAF Campus.....	38



On the cover: Aerial view of the Toolik Field Station, about 330 miles north of Fairbanks on Alaska's North Slope. The station is operated by the University of Alaska Fairbanks Institute of Arctic Biology in cooperation with the U.S. National Science Foundation and hosts scientists from around the world for a variety of Arctic-based research efforts. (UAF photo by Todd Paris)

Above: Research Assistant Professor Anna Liljedahl digs a pit in the snow on the surface of the Jarvis Glacier to access the glacier's ice as part of her research investigating future flow in rivers coming directly from glaciers. (UAF photo by Todd Paris)

Welcome to Alaska!

We are very pleased to welcome you to Fairbanks and the University of Alaska Fairbanks for the 18th Arctic Science Summit Week and Third Arctic Observing Summit.

We welcome Senior Arctic Officials, Permanent Participants, and Observers to the Arctic Council for their second meeting under the auspices of the U.S. chairmanship. We welcome students from around the world who will participate in the Model Arctic Council.

These meetings are being convened in conjunction with a myriad of side sessions and workshops, all intended to advance Arctic science, technology, policy, and stakeholder issues. Convening these meetings together here, at one time, allows for unprecedented interaction between scientists, policy makers, journalists, and the public—all of whom are concerned with promoting and facilitating coordination, cooperation, and collaboration in the Arctic Region.

We hope you will take some time to enjoy the beauty and culture of Interior Alaska and the hearty welcome from friendly Alaskans. There is a great deal to see, and many activities unique to Alaska, and we have worked hard to make them easily accessible for you. We hope you will take home a strong sense of productivity and accomplishment, along with warm memories of winter in Alaska.

Handwritten signatures of three individuals: Hajo Eicken, Larry Hinzman, and Scott Rupp.

HAJO EICKEN
Director, International Arctic
Research Center, UAF

LARRY HINZMAN
Vice Chancellor for Research, UAF

SCOTT RUPP
Deputy Director, International
Arctic Research Center, UAF

We Thank Our Partners

We are honored to host a global community of colleagues and constituents that share an interest in the Arctic. The partners listed here have generously supported UAF as a national and world leader in climate change and Arctic research. Thank you.

Ice \$100,000+**Platinum 50,000+****Gold \$25,000+****Silver \$10,000+**

Institutional Support

We thank these groups, who have provided substantial monetary and/or in-kind support.



Arctic Ambassadors

Thanks to our Arctic Ambassadors, who have provided 100% charitable contributions for this cause.

- ABR, Inc.
- Alaska Sea Grant
- Vladimir Alexeev
- Arctic Slope Regional Corporation
- Brian Barnes and Alison York, in honor of Kristin Timm
- Daniel Blair-Madrid
- The Boeing Company
- Hajo Eicken and Angela Dirks-Eicken
- Fairbanks North Star Borough
- Fugro
- Bill and Debra Ha'o
- Amy Hartley and Adam Gibler
- Maggie Hess
- Larry and Melanie Hinzman
- Jason and Mimi Lesniak
- Ross and Rosemary Madnick
- Santosh Panda
- Scott Rupp and Kerry Walsh
- Sandia National Lab
- Usibelli Coal Mine, Inc.

Above are partners as of 3 March 2016; see assw2016.org/engage/partners for a complete list.

Schedule Overview

MON 7	TUE 8	WED 9	THU 10	FRI 11	SAT 12	SUN 13
				Icebreaker Reception	Arctic Science Summit Week Business Meetings	
		Model Arctic Council				
MON 14	TUE 15	WED 16	THU 17	FRI 18	SAT 19	SUN 20
	International Arctic Assembly Day and Banquet					
Arctic Science Summit Week Business Meetings						
Exhibit Hall						
Model Arctic Council		Arctic Observing Summit Poster Session I	Arctic Observing Summit Poster Session 2			
	Arctic Observing Summit					
	Arctic Council Senior Arctic Officials					

Plus dozens of other side meetings, workshops and events!

Sustainability

Building a Green Event Together

From the start, the local organizing committee has been committed to creating a sustainable ASSW. Events like this one consume a great deal of resources and are responsible for a large amount of greenhouse gas emissions.

This year at ASSW, we're reducing waste and curbing emissions by:

- Providing shuttles instead of individual transport.
- **Eliminating plastic.** You won't see plastic water bottles, disposable coffee cups, or plastic containers provided.
- **Reducing paper.** The ASSW website, assw2016.org, has all of the information conference participants need, including updates as the week progresses. Please pick up only what paper you'll use when you're building your packet at the registration desk.
- **Choosing green.** The local organizing committee sought out and chose green options whenever possible, such as printing on recycled or Forest Stewardship Council-certified paper with plant-based inks.
- **Eating green.** Our food services have sourced local foods whenever possible, created a delicious Meatless Monday menu, and are committed to donating leftover food to charity.

For every 100 ASSW attendees who:

- Use a reusable bottle or water glass throughout the conference, we can eliminate 1,000 lbs (450 kg) of plastic waste.
- Purchase a carbon offset for \$6, we can neutralize greenhouse gas emissions from driving almost 143,000 miles (230,000 km).
- Pack one less pair of shoes, we can eliminate 500 lbs (227 kg) of CO₂.
- Opt for a digital program instead of a paper one, we can save 5,200 gallons (20,000 L) of water.
- Sources: MeetGreen.com
<http://tinyurl.com/hwj8q69>
<http://tinyurl.com/jejupjn>



These are just some of the steps we've taken. Look for the green leaf on the ASSW website and at events during the conference for all of our sustainability efforts. Help us reduce this event's carbon footprint! Together we can make a difference.

Registration Desk Hours and Locations

Participants can register at the registration desk and pick up name badges, campus maps, banquet tickets, and other conference materials.

Check the registration desk for daily updates, including any schedule or location changes. You can also:

- Upload speaker presentations
- Purchase banquet tickets and carbon offset credits

Food and Drink

Wood Center Hours of Operation

12–17 March 7:00 am–9:00 pm
18 March 7:00 am–5:00 pm

UAF Dining Services

Arctic Java, Wood Center

Open 7:00 am–8:30 pm, 12–17 March and 7:00 am–3:30 pm, 18 March. On-the-go coffee, espresso, baked goods.

Books & Brew, Rasmuson Library

Open 8:00 am–3:00 pm, 14–17 March.
On-the-go coffee, espresso, baked goods.

Dine 49, Wood Center

Open 11:00 am–2:00 pm, 12–18 March. Serving Lunch Buffet (included with conference registration; name badge required). One-day lunch pass (\$15.00) available for purchase at Registration Desk. Snacks and bottled sodas available for purchase.

Exhibitors

- Alaska Native Tribal Health Consortium - Local Environmental Observers
- Alaska Satellite Internet
- Alaska Sea Grant & UA Press
- Animal Resources Center
- Arctic Research Consortium of the U.S. & Polar Research Board
- Arctic Science Journal
- Biomedical Learning and Student Training (BLaST) Program
- Campbell Scientific, Inc.
- EARTHSCOPE Nat'l Office (UAF) & Alaska Earthquake Ctr
- Explore Fairbanks
- IDeA Network for Biomedical Research Excellence, Alaska
- Institute of the North
- International Study of Arctic Change & Arctic Institute of North America

FRI 11 March

6:00–9:00 pm, UA Museum of the North

SAT 12 March-MON 14 March

7:30 am–8:00 pm, Wood Center ground floor

TUE 15 March

7:30 am–5:00 pm, Wood Center ground floor

WED 16 March-FRI 18 March

7:30 am–5:00 pm, Wood Center ground floor

Wood Center Pub

Open 4:00 pm– 8:30 pm, 12–17 March (closed Friday 18 March).
Beer, wine, non-alcoholic beverages, light snacks. Must be 21 and older, passport or U.S. driver's license required.

All-Day Coffee and Tea Break Service

Included for conference registrants. Find it at:

- Wood Center Multi-Level Lounge
- Gruening, room 301 and 4th floor foyer
- Fine Arts Complex Great Hall (days vary)
- Engineering Atrium (12–15 March only)

UA Museum Café (West Ridge)

Open 9:00 am–4:00 pm, 14–18 March. Snacks and locally-roasted coffee and espresso.



- Korea Polar Research Institute
- North Slope Science Initiative
- Polar Knowledge Canada
- UAF School of Fisheries and Ocean Sciences
- Springer Nature Publications
- UAF Toolik Field Station
- U.S. Arctic Research Commission
- UAF International Arctic Research Center
- UIC Science
- Union of Concerned Scientists
- University of Alaska Fairbanks
- University of the Arctic
- We Are the Arctic
- World Meteorological Organization & World Climate Research Program



Sara Sonsthagen, USGS



UAF photo by Todd Paris



UAF photo by Todd Paris



Nat'l Snow and Ice Data Center



UAF photo by Todd Paris

Plenary Speakers

David Arthurs, Managing Director, Polar View Earth Observation Limited, Canada

Ambassador David Balton, Deputy Assistant Secretary for Oceans and Fisheries, Bureau of Oceans and International Environmental and Scientific Affairs, U.S. Department of State

Susan Barr, President, International Arctic Science Committee

Dominique Berod, Secretariat, Group on Earth Observations, Switzerland

Jessica Black, Assistant Professor, Rural, Community, & Native Education, University of Alaska Fairbanks, USA

Evan Bloom, Director, Office of Ocean and Polar Affairs, Bureau of Oceans and International Environmental and Scientific Affairs, U.S. Department of State

Julie Brigham-Grette, Chair, Polar Research Board, National Academy of Sciences, USA

Ambassador Mark Brzezinski, Executive Director, Arctic Executive Steering Committee, U.S. Department of State

Roberta Burns, U.S. Department of State

Raychelle Aluaq Daniel, Senior Associate, Arctic Conservation Science Team, Pew Charitable Trusts, USA

David Carlson, World Climate Research Programme, Switzerland

Marcus Carson, Senior research fellow, Stockholm Environment Institute

John Eberhart, Mayor, City of Fairbanks

J. Okalik Eegeesiak, Chair, Inuit Circumpolar Council, Canada

Hajo Eicken, Director, International Arctic Research Center, University of Alaska Fairbanks, USA

Hiroyuki Enomoto, Director, Arctic Environment Research Center, National Institute for Polar Research, Japan

Kelly Falkner, Director, Division of Polar Programs, U.S. National Science Foundation

John Farrell, Executive Director, U.S. Arctic Research Commission

Craig Fleener, Special Assistant on Arctic Policy, Office of the Governor, State of Alaska, USA

Donald Forbes, Vice Chair, Future Earth Coasts, Canada

Martin Forsius, Director, Finnish Environment Institute

Anna Frank, Reverend, Episcopal Diocese of Alaska

Trimble Gilbert, Reverend, Second Traditional Chief, Tanana Chiefs Conference, USA

Steve Ginnis, Executive Director, Fairbanks Native Association, USA

Julia Gourley, Senior Arctic Official, U.S. Department of State

Naomi Harada, Deputy Director, Research and Development Center for Global Change, Japan Agency for Marine-Earth Science and Technology

Reidar Hindrum, Senior Advisor, Norwegian Environment Agency

Inuuteq Holm Olsen, Minister Plenipotentiary for Greenland, Royal Danish Embassy

Paul Holthus, President, World Ocean Council, USA

James Johnsen, President, University of Alaska, USA

Victor Joseph, President, Tanana Chiefs Conference, USA

David M. Kennedy, Deputy Under Secretary for Operations (retired), U.S. National Oceanic and Atmospheric Administration.

Paula Kankaanpaa, Director, Marine Research Center, Finnish Environment Institute

Karl Kassel, Mayor, Fairbanks North Star Borough

Lene Kielsen Holm, Senior Scientist, Greenland Climate Research Centre

Yeadong Kim, President, Korean Polar Research Institute

Rodd Laing, Research Manager, Nunatsiavut Government, Canada

Michael Macrander, Science Team Lead, Shell Exploration and Production, USA

Byron Mallott, Lieutenant Governor, State of Alaska, USA

Jeremy Mathis, Director, Arctic Research Office, U.S. National Oceanic and Atmospheric Administration

Amy Merten, Chief, Spatial Data Branch, U.S. National Oceanic and Atmospheric Administration

Maribeth Murray, Executive Director, Arctic Institute of North America, Canada

Anders Oskal, Executive Director, International Centre for Reindeer Husbandry, Norway

Admiral Robert Papp, Jr., Special Representative for the Arctic, U.S. Department of State

Evon Peter, Vice Chancellor, Rural, Community & Native Education, University of Alaska Fairbanks, USA

Mikhail Pogodaev, Executive Director, The Northern Forum, Russia

Michael Powers, Chancellor, University of Alaska Fairbanks, USA

Peter Pulsifer, Research Scientist, National Snow and Ice Data Center, USA

Volker Rachold, Executive Secretary, International Arctic Science Committee, Germany

Judy Ramos, Assistant Professor, Alaska Native Studies & Rural Development, University of Alaska Fairbanks, USA

Stacy Rasmus, Center for Alaska Native Health Research, University of Alaska Fairbanks, USA

Michel Rixen, Representative, World Meteorological Organisation

Barbara Ryan, Secretariat Director, Group on Earth Observations, Switzerland



UAF photo by Todd Paris



Brandt Meixell, U.S. Geological Survey



UAF photo by Todd Paris

Renee Sauve, Chair, Global and Northern Affairs, Department of Fisheries and Oceans Canada

Peter Schlosser, Chair, International Study of Arctic Change

Mike Sfraga, Vice Chancellor, University and Student Advancement, University of Alaska Fairbanks, USA

Martin Sommerkorn, Head of Conservation, Global Arctic Program, World Wildlife Fund, Norway

Konrad Steffen, Director, Forest-Snow-Landscape Unit, Swiss Federal Research Institute

Rune Storvold, Head of Unit, Unmanned Aircraft Group, Northern Research Institute, Norway

Atsuhi Sunami, Executive Advisor, National Graduate Institute for Policy Studies, Japan

Clifford Sweatte, Program Manager, International Civil Aviation Organization, Canada

Tara Sweeney, Chair, Arctic Economic Council

Andrea Tilche, Head, Climate Action and Earth Observation Unit, Directorate General for Research and Innovation, European Commission

Fran Ulmer, Chair, U.S. Arctic Research Commission

Stephen Volz, Assistant Administrator, Satellite and Information Services, U.S. National Oceanic and Atmospheric Administration

Bryce Ward, Mayor, North Pole

Ulrik Westman, Head, International Cooperation, Swedish Environmental Protection Agency



Patrick Kelley, U.S. Coast Guard

International Arctic Assembly Day

Tuesday, 15 March Davis Concert Hall, UAF Campus

The International Arctic Assembly is an unprecedented chance to explore a broad range of perspectives and objectives related to Arctic research. On 15 March 2016, scientists, policymakers, technical experts and other stakeholders will discuss and share ideas and information to advance human well-being, security and technology in the Arctic.

One Day Pass required for admission (\$180/Regular; \$156/Early-Career; \$132 Student). Purchase at <http://tinyurl.com/z8hkv78>

What's the day about? International discussions will help improve understanding of the role of science by addressing gaps to enable understanding of the Arctic system, and in implementing policy that will benefit all nations.

Agenda

8:00–8:10 am

Session A Welcome and Introduction

Welcome and introduction	Larry Hinzman, Vice Chancellor for Research, University of Alaska Fairbanks
Traditional welcome	Steve Ginnis, Executive Director, Fairbanks Native Association
National welcome.....	Admiral Robert Papp, Special Representative for the Arctic, U.S. Department of State

8:15–9:25 am

Policy-Science Interface

A high-level discussion of the policy-science interface, focusing on the unique role of the Arctic in addressing climate change. Speakers will examine the role of science in informing policy, in particular how the research community, the people of the Arctic and the policy community can best work together to address urgent questions such as effective responses to a rapidly changing Arctic.

Facilitator Welcome.....	Byron Mallott, Lieutenant Governor of Alaska
Keynote.....	Ambassador David Balton, Deputy Assistant Secretary for Oceans & Fisheries in the Bureau of Oceans & International Environmental & Scientific Affairs, U.S. Department of State
Keynote.....	David M. Kennedy, Deputy Under Secretary for Operations (retired), U.S. National Oceanic and Atmospheric Administration
Economic Development and Policy.....	Tara Sweeney, Arctic Economic Council
Keynote.....	Marcus Carson, Senior Research Fellow, Stockholm Environment Institute

BREAK 9:25–9:45 am

9:45– 11:05 am

Session B Emerging Research Needs in a Changing Arctic

Looking forward to the Arctic of coming years and decades, speakers will discuss their organization's perspectives on the science, coordination, collaborations needed to respond effectively to emerging needs. Presentations will also address the changing role of international collaboration at the circum-Arctic and global level.

Facilitator Welcome.....	Don Forbes, Vice Chair, Future Earth Coasts, Canada
International Arctic Science Committee (IASC)	Susan Barr, President, International Arctic Science Committee
Arctic Council	Julia Gourley, U.S. Senior Arctic Official, U.S. Department of State
International Conference on Arctic Research Planning (ICARP III)	Volker Rachold, Executive Secretary, International Arctic Science Committee (representative from IASC/ICARP)
EU Horizon 2020	Andrea Tilche, Head, Climate Action and Earth Observation Unit, European Commission
U.S. Polar Research Board (PRB Emerging Research Questions).....	Julie Brigham-Grette, Chair, Polar Research Board, U.S. National Academy of Sciences Polar Research Board
International Study of Arctic Change	Peter Schlosser, Chair, International Study of Arctic Change
Panel Discussion	Discussion with brief questions submitted by e-mail or text from audience through facilitator.

BREAK 11:05-11:25 am**11:25 am-12:35 pm****Session C Progress and Emerging Initiatives**

Perspectives on research and sustained observations from select Arctic Council Working Groups and Task Force: Speakers will examine progress made in recent years in building on research contributions to address grand challenges of a changing Arctic..

Facilitator Welcome	Fran Ulmer, Chair, U.S. Arctic Research Commission
Conservation of Arctic Flora and Fauna (CAFF).....	Reidar Hindrum, Norwegian Environment Agency
Arctic Contaminants Action Programme (ACAP)	Ulrik Westman, Swedish Environmental Protection Agency
Arctic Monitoring & Assessment (AMAP) Working Group.....	Martin Forsius, Finnish Environment Institute
Protection of the Arctic Marine Environment (PAME) Working Group...Renée Sauve, Department of Fisheries and Oceans Canada	
Sustainable Development Working Group	Roberta Burns, U.S. Department of State
Panel Discussion	Discussion with brief questions submitted by e-mail or text from audience through facilitator.

LUNCH 12:35-2:00 pm**2:00-3:20 pm****Session D Role of Scientific Research in Decision Making, Policy, Industry, Security and Environmental Stewardship**

Presentations and discussion about the role of scientific research in making, policy, industry, security and environmental stewardship. Speakers will challenge the research community to address opportunities and problems associated with rapid Arctic change. Presentations will lay out key priorities and explore approaches towards collaborative responses and innovations.

Facilitator Welcome	John Farrell, Director, U.S. Arctic Research Commission
Scientific Cooperation Task Force.....	Evan Bloom, Director, Bureau of Oceans, Environment and Science Office of Ocean and Polar Affairs, U.S. Department of State; and Kelly Falkner, Director, U.S. National Science Foundation Division of Polar Programs
Facilitator Welcome	Michael Sfraga, Vice Chancellor for University and Student Advancement, University of Alaska Fairbanks
Indigenous Peoples' / Permanent Participants' Organizations.....	J. Okalik Eegeesiak, Chair, International Inuit Circumpolar Council
The Knowledge Base of Arctic Indigenous Peoples	Anders Oskal, Executive Director, International Centre for Reindeer Husbandry
Arctic Communities.....	Mikhail Pogodaev, Executive Director, Northern Forum
Panel Discussion	Discussion with brief questions submitted by e-mail or text from audience through facilitator.

BREAK 3:20-3:40 pm**3:40-4:25 pm**

Facilitator Welcome	John Farrell, Director, U.S. Arctic Research Commission
Emergency Response	Amy Merten, Chair, Emergency Preparation, Prevention, and Response Working Group; U.S. National Oceanic and Atmospheric Administration
Private Sector	Michael Macrander, Science Team Lead, Shell Exploration and Production
Non-Arctic Nations (Japan)	Atsushi Sunami, Executive Advisor, Japan National Graduate Institute for Policy Studies
Non-Arctic Nations (Korea)	Yeadong Kim, President, Korea Polar Research Institute

4:40-5:10 pm**Session E Closing Session**

Introduction.....	James Johnsen, President, University of Alaska
Closing Remarks.....	Ambassador Mark Brzezinski, Executive Director, U.S. Arctic Executive Steering Committee
In-Person Closing Remarks.....	Larry Hinzman



ASSW Business Meetings

IASC • APECS • EPB • FARO • NySMAC • PAG • SAON • UArctic

Friday, 11 March

6:00–8:00 pm

Icebreaker Reception

Open • UA Museum of the North

Saturday, 12 March

9:00 am–5:30 pm

Forum of Arctic Research Operators

Open • Gruening • Room: 412

The Forum of Arctic Research Operators (FARO) aims to facilitate and optimize logistics and operational support for scientific research in the Arctic. FARO facilitates information exchange, cooperation and development of new ideas among national logistics operators in countries with Arctic research activities.

9:00–10:00 am

International Arctic Science Committee Working Groups - Joint Meeting

Open • Davis Concert Hall

The scientific core elements of IASC are its five Working Groups (WGs): Atmosphere WG, Cryosphere WG, Marine WG, Social & Human WG and Terrestrial WG. The main function of the WGs is to encourage and support science-led international programs by offering opportunities for planning and coordination, and by facilitating communication and access to facilities. This joint meeting of the IASC WGs will include presentations and discussions that are of relevance for all five WGs.

10:30 am–8:00 pm

International Arctic Science Committee ATMOSPHERE Working Group

Open • Gruening • Room: 206

The scientific scope of the Atmosphere Working Group includes scientific research towards understanding and prediction of Arctic change, and considering the fate of perennial sea ice and the global atmospheric consequences of its disappearance. This includes past climate states, investigation of Arctic processes across data sets and approaches, and climate model projections. The scope includes local and regional impacts of Arctic change.

10:30 am–8:00 pm

International Arctic Science Committee CRYOSPHERE Working Group

Open • Gruening • Room: 208

The scientific scope of the Cryosphere Working Group includes scientific or engineering research relating to the Arctic and sub-Arctic cryosphere, including its interactions (past, present, future) with the climate, oceans, and biosphere. It also promotes sound practices for the management of scientific data relating to the Arctic cryosphere and its interactions with other components of the Arctic system.

10:30 am–8:00 pm

International Arctic Science Committee MARINE Working Group

Open • Gruening • Room: 306

The scientific scope of the Marine Working Group includes any marine natural science or engineering research.

10:30 am–8:00 pm

International Arctic Science Committee SOCIAL + HUMAN Working Group

Open • Gruening • Room: 408

The scientific scope of the Social and Human Sciences Working Group shall include all aspects of social sciences and humanities research in the Arctic, as well as their connections with other IASC Working Groups. The actual work of the Social & Human Sciences Working Group will be determined by a dynamic list of scientific focus areas.

10:30 am–8:00 pm

International Arctic Science Committee TERRESTRIAL Working Group

Open • Gruening • Room: 409

The scientific scope of the Terrestrial Working Group includes any scientific research on Arctic terrestrial and freshwater environments, landscapes and biota, and their responses to, and interactions with, other components of the Earth system. The remit encompasses the dynamics of the Arctic system; past, present, future.

Sunday, 13 March

**Daylight Savings Time begins at 2:00 am today.
Please remember to set your clocks forward one hour.**

9:00 am–5:00 pm

Pacific Arctic Group

Open • Gruening • Room: 306

The Pacific Arctic Group (PAG) is a group of institutes and individuals having a Pacific perspective on Arctic science. Organized under the International Arctic Science Committee (IASC), the PAG has as its mission to serve as a Pacific Arctic regional partnership to plan, coordinate, and collaborate on science activities of mutual interest. The four PAG principal science themes are climate, contaminants, human dimensions and structure and function of Arctic ecosystems.

9:00 am–12:30 pm

Symposium: Do We Speak the Same Language of Science?

Public Event • Davis Concert Hall

Despite strong incentives for bringing together scholars from various branches of science, effective interdisciplinary research remains challenging. This symposium seeks to reopen and facilitate discussions about effective means of communication and collaboration between representatives of humanities, social sciences and natural sciences. Invited guests representing different branches of science will speak first on research methods, challenges and limitations of human, social and natural sciences. The second half of the symposium will focus on discussing best practices for interdisciplinary research in the Arctic, and ways for its further pursuit.

9:00 am–6:00 pm

University of the Arctic Board of Governors

Open • Signers' Hall • Room: 330

1:30–5:00 pm

International Science Initiative in the Russian Arctic

Open • Gruening • Room: 208 • Agenda on website

The International Science Initiative in the Russian Arctic (ISIRA) is a Russian and international cooperative initiative to assist Russian Arctic science and sustainable development in the Russian Arctic by initiating planning of multinational research programs that address specific key problems in the Russian Arctic; providing a forum for linking on-going or planned bilateral projects; facilitating improved scientific access to the Russian Arctic; and advising on funding and organizing implementation of projects.

6:00–8:00 pm

External Expert Advisory Board of the EU-PolarNet Project

Closed • Gruening • Room: 401

The European Polar Board (EPB) is an independent European Organization of Directors and Managers of the major European National Polar Programmes. It is concerned with major strategic priorities in the Arctic and Antarctic and has members from national operators and research institutes in 17 countries. The EPB's mission is to coordinate European Arctic and Antarctic research, optimize

the use of European research infrastructures, foster multilateral collaboration between European national funding agencies, national polar institutes and research organizations and represent polar issues within European research framework programmes.

6:00–8:00 pm

International Arctic Science Committee ATMOSPHERE Working Group

Closed • Gruening • Room: 206

6:00–8:00 pm

International Arctic Science Committee CRYOSPHERE Working Group

Closed • Gruening • Room: 208

6:00–8:00 pm

International Arctic Science Committee MARINE Working Group

Closed • Gruening • Room: 306

6:00–8:00 pm

International Arctic Science Committee SOCIAL + HUMAN Working Group

Closed • Gruening • Room: 408

6:00–8:00 pm

International Arctic Science Committee TERRESTRIAL Working Group

Closed • Gruening • Room: 409

6:00–8:00 pm

International Study of Arctic Change Science Steering Committee

Closed • Gruening • Room: 413

Monday, 14 March

9:00 am–12:30 pm

Early Career Arctic Policy Workshop

Open • Gruening • Room: 202

The Association for Polar Early-Career Scientists (APECS) is a network through which polar researchers can meet, share ideas, and develop new ideas for interdisciplinary research and collaboration. We invite leaders in Arctic science and/or policy to engage and inspire early career researchers in this global effort to use best-available science in development of Arctic policy.

This workshop begins with a keynote addressing the AOS 2016 themes. Participants will break into mentored, smaller groups to discuss one of these themes in relation to real-world problems, learning how to incorporate scientific knowledge into impactful Arctic policy. Mentors: Carolina Behe, Inuit Circumpolar Council-Alaska; Terry Chapin, UAF Institute of Arctic Biology; Henry Huntington, the PEW Charitable Trusts; Amy Lovecraft, UAF Political Science Department; and Peter Winsor, UAF School of Fisheries and Ocean Sciences.

9:00 am-3:00 pm**Sustained Arctic Observing Networks Committee on Observations and Networks**

Closed • Gruening • Room: 303

9:00 am-5:00 pm**International Arctic Science Committee Council**Open • Wood Center Ballroom • [Agenda on website](#)

Representatives of national scientific organizations from all International Arctic Science Committee (IASC) member countries form the IASC Council that meets once a year during the Arctic Science Summit Week. The Council members ensure an input of a wide range of scientific and technical knowledge and provide access to a large number of scientists and administrators through their national committees. Council members have the responsibility to develop policies and guidelines for cooperative Arctic research; establish Working Groups (WGs) that address and act on timely topics in Arctic science; recommend, in cooperation with the WGs, implementation plans for IASC programs and activities; decide on the participation of national scientific organizations from the non-Arctic countries; and organize Arctic Science Conferences.

9:00 am-5:00 pm**Reframing Understandings of the North: Placing Social Sciences and Humanities at the Center of Interdisciplinary Arctic Research Meeting**

Open • Bunnell • Schaible Auditorium

The University of Alaska Anchorage, International Arctic Social Sciences Association, the International Arctic Science Committee (IASC) and the University of the Arctic will bring together Arctic social science and humanities researchers and Arctic natural sciences researchers to discuss ways to reframe interdisciplinary research in ways that place the social sciences and humanities at the forefront of these collaborations, rather than as an afterthought.

9:00 am-6:00 pm**University of the Arctic Board of Governors**

Open • Signers' Hall • Room: 330

Tuesday, 15 March**8:00 am-5:00 pm****International Arctic Assembly Day**

Open; Public • Davis Concert Hall

The International Arctic Assembly is an unprecedented chance to explore a broad range of perspectives and objectives related to Arctic research. Scientists, policymakers, technical experts and other stakeholders will discuss and share ideas and information to advance human well-being, security and technology in the Arctic. See the full agenda on pages 6-7.

9:00 am-6:00 pm**University of the Arctic Board of Governors**

Open • Bunnell • Room: 122 or 313

Wednesday, 16 March**1:30-5:30 pm****Sustaining Arctic Observing Networks - Board Meeting**

Closed • Gruening • Room: 202

Thursday, 17 March**1:30-5:30 pm****Sustaining Arctic Observing Networks - Board Meeting**

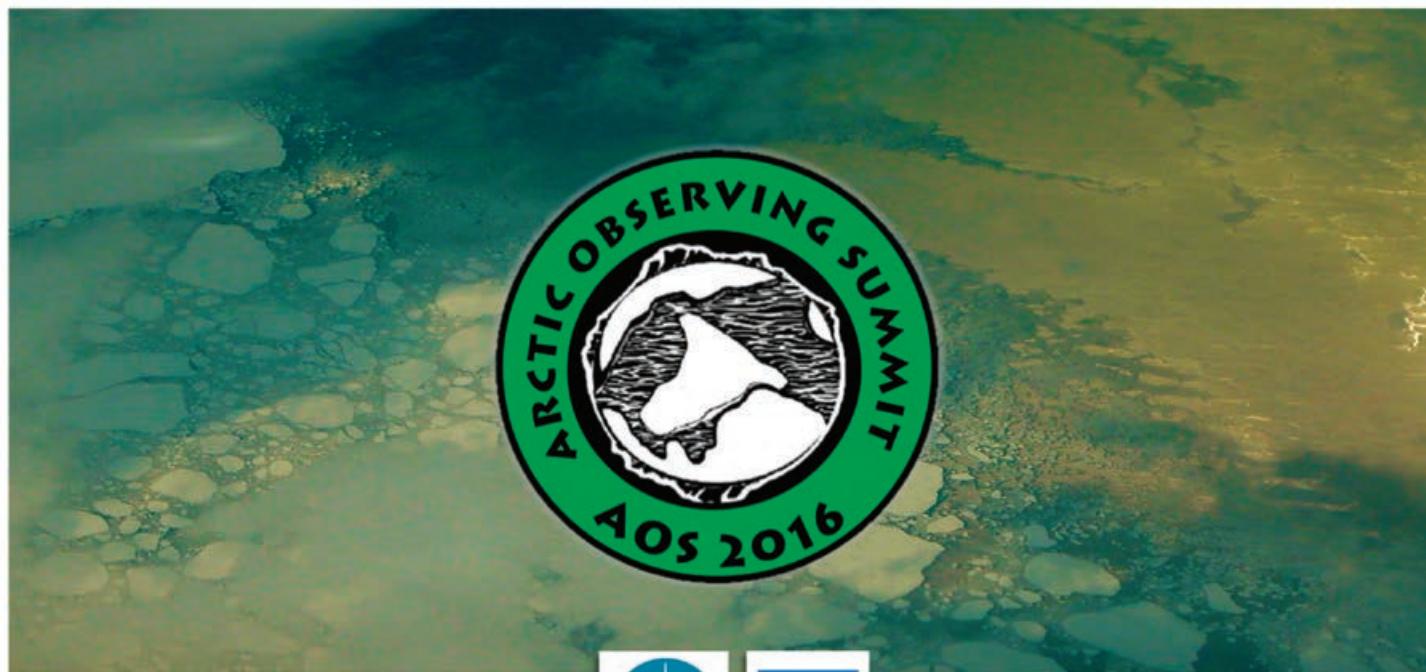
Closed • Gruening • Room: 202

Arctic Observing Summit 2016

Arctic Observing Summit 2016

3rd Biennial Arctic Observing Summit
University of Alaska Fairbanks, AK, USA, March 15 - 18, 2016

PROGRAM



Welcome to AOS 2016

The Arctic Observing Summit (AOS) is a high-level, biennial summit that aims to provide community-driven, science-based guidance for the design, implementation, coordination and sustained long-term operation of an international network of Arctic observing systems.

The Summit provides a platform to address urgent and broadly recognized needs of Arctic observing across all components of the Arctic system.

AOS aims to build a common vision for sustained, long-term observations of the Arctic and serve as a forum for the planning and coordination of such measurements.

The Summit brings together researchers, stakeholders and funding agency representatives to facilitate the design, implementation, coordination and sustained long-term (decades) operation of an international network of Arctic observing systems.

Executive Organizing Committee

Hajo Eicken
Eva Kruemmell
Peter Schlosser
Hiroyuki Enomoto
Larry Hinzman
Gabriela Ibarguchi
Jan Rene Larsen
Maribeth Murray
Volker Rachold
Additional support

International Arctic Research Center, University of Alaska Fairbanks, USA (Co-Chair)
Inuit Circumpolar Council, Canada (Co-chair)
International Study of Arctic Change and The Earth Institute, Columbia University, USA (Co-Chair)
Arctic Environment Research Center, National Institute of Polar Research, Japan
University of Alaska Fairbanks, USA
International Study of Arctic Change and Arctic Institute of North America, University of Calgary, Canada
Arctic Monitoring and Assessment Program, Norway
International Study of Arctic Change and Arctic Institute of North America, University of Calgary, Canada
International Arctic Science Committee, Germany
Olivia Lee and Jane Wolken, International Arctic Research Center, University of Alaska Fairbanks, USA

Plenary Session Speakers

David Carlson
Naomi Harada
Lene Kielsen Holm
Paul Holthus
Michael Macrander
Peter Pulsifer
Barbara Ryan
Peter Schlosser
Konrad Steffen
Stephen Volz

World Climate Research Programme, Switzerland
Research and Development Center for Global Change, Japan Agency for Marine-Earth Science and Technology
Greenland Climate Research Center, Greenland Institute of Natural Resources
World Ocean Council, USA
Shell International
National Snow and Ice Data Center, USA
Group on Earth Observations, Switzerland
Co-chair, ISAC Science Steering Group and AOS Co-chair, Columbia University, USA
Forest-Snow-Landscape Unit, Swiss Federal Research Institute
Satellite and Information Services, U.S. National Oceanic and Atmospheric Administration

Thematic Working Group Co-Leads

David Arthurs
Dominique Berod
Raychelle Aluaq Daniel
Hiroyuki Enomoto
Craig Fleener
Lene Kielsen Holm
Paul Holthus
Rodd Laing
Jeremy Mathis
Martin Sommerkorn
Rune Storvold
Cliff Sweatee
Andrea Tilche

Polar View Earth Observation Limited, Canada
Group on Earth Observations, Switzerland
Arctic Conservation Science Team, Pew Charitable Trusts, USA
Arctic Environment Research Center, National Institute of Polar Research, Japan
Cabinet Office, Alaska Office of the Governor, USA
Greenland Climate Research Center, Greenland Institute of Natural Resources
World Ocean Council, USA
Nunatsiavut Government, Canada
Arctic Research Program, U.S. National Oceanic and Atmospheric Administration
Global Arctic Program, World Wildlife Fund, Norway
Unmanned Aircraft Group, Northern Research Institute, Norway
International Civil Aviation Organization, Canada
Climate Action and Earth Observation, European Commission

AOS Program Overview

International Arctic Assembly Tuesday 15 March	AOS Day 1 Wednesday 16 March	AOS Day 2 Thursday 17 March	AOS Day 3 Friday 18 March
Plenaries & Discussion The International Arctic Assembly is an open forum with diverse representation from national and international organizations. Discussions will focus on the science-policy interface, the role of the Arctic community in addressing climate change, emerging needs in a changing Arctic, progress on research and new initiatives of select Arctic Council working groups, and the role of research in decision making, policy, industry, security and environmental stewardship.	Plenary Speakers provide background on the AOS, previous recommendations, overviews of Arctic observing activities, progress in cryospheric, environmental, and marine system observing, and important aspects of community-based observing.	Plenary Plenary sessions will highlight the key findings from the white paper process including identified priorities, challenges, and progress to date under each theme.	Plenaries & Discussion Sessions will synthesize results from the AOS 2016, including findings from breakout sessions and cross-cutting issues relevant to implementation, collaboration, priorities, gaps, and sustained support for an international Arctic Observing System of Systems.
	Breakout Thematic Sessions Thematic breakout sessions open to all AOS participants will focus on discussions and AOS input from the white papers addressing AOS 2016 themes.	Breakout Thematic Sessions Breakout sessions continue discussion (Day 1)	
Evening Reception & Banquet Social events and networking opportunities.	Evening Poster Session Evening poster session with networking opportunities.	Evening Poster Session Evening poster session with networking opportunities.	AOS Recommendations Discussion on next steps, addressing gaps, and recommendations for guiding observing system design to meet societal needs.

Tuesday, 15 March

5:00-6:00 pm

Organizing Committee and Co-Lead meeting

Closed • Gruening • Room: 303

Wednesday, 16 March

7:15-8:30 am

Organizing Committee and Co-Lead meeting

Closed • Gruening • Room: 303

8:45 am-12:15 pm

Arctic Observing Summit Plenaries

Open • Davis Concert Hall

WELCOME and AOS SESSION A

Welcome and Introduction

- Hajo Eicken, AOS Executive Organizing Committee and Local Organizing Committee; AOS Co-chair
- Michael K. Powers, Chancellor, University of Alaska Fairbanks

Overview of Arctic Observing and Status; keynotes on observations and progress within the context of Physical Sciences, Community Perspectives, and the Environment

- Arctic observing and physical sciences: Ice sheets and glaciers: Konrad Steffen, Swiss Federal Research Institute
- Arctic observing and ocean biogeochemistry: Naomi Harada, Japan Agency for Marine-Earth Science & Technology
- Key aspects in community-based observations: Lene Kielsen Holm, Greenland Climate Research Center
- GEO and the GEO Cold Regions initiative: Barbara Ryan, Secretariat, Group on Earth Observations

BREAK 10:45-11:00 am

11:00 am-12:15 pm

AOS SESSION B

Arctic Observing Summit 2013-2016

- Introduction to Arctic Observing and the System of Systems: Peter Schlosser, Co-chair, International Study of Arctic Change Science Steering Group and AOS Co-chair, Columbia University
- AOS Overview from 2013 & 2014 - progress, gaps and recommendations: Maribeth Murray, Executive Director, International Study of Arctic Change, Arctic Institute of North America, University of Calgary

Introduction to AOS 2016, themes, goals and process

- AOS 2016 themes and guidelines for process and participation: Hajo Eicken, AOS Co-chair, and Director, International Arctic Research Center, University of Alaska Fairbanks

LUNCH 12:15-1:45 pm

1:45-3:00 pm

Breakout Session 1, Theme 1 - International and National Strategies for Sustained Support of Long-Term Arctic Observing

Open • Gruening • Room: 409

A successful Arctic Observing System that will deliver significant and long-lived benefits for the Arctic environment and communities has to be based on a solid innovative design and implementation plan developed with active participation of relevant stakeholders and indigenous representatives. Such a system can only be built around a commitment to long-term support at national and international scales, by Arctic and non-Arctic nations, where the role of institutional, e.g. funding agencies, public administrations and non-institutional, e.g. private sector actors is clearly identified and coordinated. We invite discussion at AOS 2016 on sustained support and funding strategies that will enable the development of an integrated plan for Arctic observation. White papers may address questions such as: Which elements of an Arctic Observing System require sustained and stable support? How can research-oriented observations move to operational ones? How can non-institutional funds be secured? How to build a plan in which both national and international initiatives can efficiently share resources, which is supported by innovative funding mechanisms that deliver sustainability, integration and excellence?

- Co-leads: Andrea Tilche, European Commission; Jeremy Mathis, NOAA
- AOS attendees can participate in any of the breakout sessions. Participants can move among rooms of the six AOS themes. Break provided 3:00 pm–3:30 pm.
- Speakers and discussion. Observing Systems. Speakers: Ola Gråbak, Earth Observation Directorate, European Space Agency; James Morison and Ignatius Rigor, Applied Physics Laboratory, Polar Science Center

Breakout Session 1, Theme 2 - Technology and Innovation for Sustained Arctic Observations

Open • Gruening • Room: 408

A modern pan-Arctic Observing System relies on technical innovation to achieve the appropriate spatial and temporal resolution. Key needs include improved interoperability and sensor development and the ability to generate accurate and continuous data records. These needs have already been discussed during previous Summits but further enhancement and discussion of the topic is needed. During the AOS 2016, topics for discussion include the utility of drones, UAVs, Unmanned Aircraft Systems or Remotely Piloted Aircraft Systems and their role in remotely sensing the atmosphere, operation across national borders, and exploration of the use of modern technology for community-based observations. Advances in other technologies that may support sustained Arctic observations, such as unmanned underwater vehicles, AUVs and unmanned surface vehicles, USVs may also be discussed.

- Co-leads: Cliff Sweatie, International Civil Aviation Organization, USA; Rune Storvold, NORUT, Norway

- Speakers and discussion. Intelligent integrated observing systems. Speakers: Phillip McGillivray, U. S. Coast Guard; Prof. Torbjørn Eltoft, UiT Arctic University of Norway. Topics: Potential of Radar Remote Sensing in sea-ice research; new radar sensors; modes and algorithms for retrieval of geophysical properties.

Breakout Session 1, Theme 3 - Contributions of the Private Sector and Industry-Sustained Arctic Observations

Open • Gruening • Room: 412

Decreasing sea ice extent coupled with an increasing interest in natural resource development are driving increased private sector activity in the Arctic, including oil and gas, shipping, fishing, tourism, and mining – along with associated port and coastal infrastructure development. There is a need for better Arctic information to support safe, responsible and effective industry operations. This information could be provided by an Arctic observing system involving the research community, governments, and industry. In particular, there is a need and opportunity for industry data collection and sharing, e.g. in relation to the World Ocean Council program on “Smart Ocean-Smart Industries.”

This AOS 2016 theme will address the following questions: What information does industry need? What data does, and can, industry collect and share? What assets and resources can industry offer to help sustain Arctic observations by industry and others? What is the value proposition for industry? How can cooperation between industry and the research community be best coordinated? What are the impediments to cooperation?

- Co-leads: Paul Holthus, World Ocean Council, USA; David Arthurs, Polar View Earth Observation Limited, Canadian Office
- Panel discussion. Industry needs for Arctic Observations and Data.
- Framing question: What information does industry need?
- Chair: David Arthurs. Panelists: Duke Snider, Nautical Institute/Martech Polar; Liz Cravalho, NANA Regional Corporation Inc.; Stephanie Madsen, APA, At-sea Processors Association; Adrienne Tivy, Canadian Ice Service, Ottawa

Breakout Session 1, Theme 4 - Actor and Stakeholder engagement and needs in sustained Arctic observations

Open • Gruening • Room: 206

Rapid Arctic change is impacting a range of stakeholders at regional and global scales. Arctic observing systems hence need to serve a dual function, providing critical information to actors and stakeholders, interested in or impacted by Arctic change, or interested in learning about change and taking action, and supporting scientific research. Such hybrid observing system approaches require the empowerment and involvement of actors and stakeholders at all stages of system design and operation, including capacity-building and taking action. The role of knowledge and observing needs is critical as an integral part and prerequisite of all stages. White papers that address capacity building or development of observing systems that can support community emergency response plans and adaptation are particularly encouraged. These may address different models of community engagement, and data and information transfer approaches meant to serve the knowledge needs for communities faced with threats from climate change, coastal erosion and other emergencies. Adaptation and long-range planning are critical components in community survival, especially when faced with short or long-term natural disasters or natural changes that are difficult to deal with. The long-term well-being and sustainability of Arctic communities and

the resilience of the environment depend on dialogue and solutions-based approaches which pivot on strong partnerships, trust, respect and open communication.

- Co-leads: Craig Fleener, Office of the Governor, Cabinet Office, Alaska; Martin Sommerkorn, WWF Global Arctic Program, Norway office
- Speakers and discussion. Novel dimensions of observations, new and worthwhile types of observations and needs to communicate results that have consequences for science and knowledge users.

Breakout Session 1, Theme 5 - Arctic Observations in the Context of Global Observing Initiatives

Open • Gruening • Room: 306

The Arctic is an integral part of the global system. Thus, observations conducted in the Arctic have to be synchronized with existing and emerging global observing systems such as the Global Earth Observing System of Systems, GEO. During AOS 2016, this theme will include consideration of physical, natural, environmental, social, economic, and cultural relationships between Arctic and non-Arctic regions with special focus on the link of Arctic and global observations in the areas of sensor technologies, observing platforms, observation frequency and spatial resolution, and data repositories. In addition, as the Arctic is part of global feedbacks and linkages which in turn influence many facets of ecosystem health, Arctic economies and livelihoods, and community well-being, consideration and discussion of observing systems within and beyond the Arctic must include some tracking of ecosystem components, drivers and stressors related to these linkages.

- Co-leads: Hiroyuki Enomoto, National Institute of Polar Research, Japan; Dominique Berod, GEO/World Meteorological Organization, Switzerland
- Speakers and discussion. Global coordination for Arctic observations: for Who? Speaker: Thomas Jung, Alfred Wegener Institute - an example of a user-driven project: YOPP, Year of Polar Prediction.
- Discussion: Identification of users and users' needs, and the contribution of Arctic observations to global mechanisms

Breakout Session 1, Theme 6 - Interfacing Indigenous Knowledge, Community-Based Monitoring and Scientific Methods for Sustained Arctic Observations

Open • Gruening • Room: 208

Indigenous knowledge plays a key role in identifying the scope, interconnectedness and impacts of rapid Arctic environmental change. It is now broadly recognized that community-based observations and Indigenous Knowledge are important elements of scientific observing systems. Nevertheless, we are still lacking interfaces, methodologies and frameworks that allow for effective and culturally appropriate exchange and analysis of ideas, expertise and information between the environmental sciences and Indigenous Knowledge. AOS 2016 will review current best practices and explore different models of how to better utilize Indigenous Knowledge and community-based observations in Arctic observing systems. These efforts will inform specific next steps towards overarching efforts and demonstration projects that will be discussed and developed as part of the AOS 2016 process.

- Co-leads: Raychelle Aluaq Daniel, Arctic Conservation Science Team, PEW Charitable Trusts; Lene Kielsen Holm, Greenland Climate Research Center; Rodd Laing, Nunatsiavut Government

- Facilitated discussions. Breakout Session 1 will lay out the foundation for this theme. This session will link the importance for establishing a bridge between indigenous communities and decision-makers, both policy and research. We will define the terminology that we are using for both Indigenous Knowledge, IK and Community-based Monitoring, CBM. We will present and discuss the high-level recommendations from our synthesis of the white papers and review process that includes: IK has its own methodologies for monitoring; both science and IK are important for a holistic understanding of the environment from which informed decision-making should be based; and there is a need to move towards co-production of knowledge to increase our understanding of Arctic systems.

BREAK 3:00-3:30 pm

3:30-4:45 pm

Thematic Working Group breakout sessions continue during the late afternoon. AOS attendees can participate in any of the breakout sessions below. Participants can move among rooms of the six AOS themes.

Breakout Session 2, Theme 1 - International and National Strategies for Sustained Support of Arctic Observing Activities

Open • Gruening • Room: 409

Speakers and discussion. International Coordination. Speakers: Wolfgang Schöner, Dept. of Geography and Regional Science, University of Graz; Nicole Biebow, EU-PolarNet, Alfred Wegener Institute; Gabriela Ibarguchi, University of Calgary

Breakout Session 2, Theme 2 - Technology and Innovation

Open • Gruening • Room: 408

Speakers and discussion. Strategies for sustained support of long-term Arctic observing and Technology. Speaker: Mark Ivey, Sandia National Laboratories; Michel Rixen, World Climate Research Programme; Polar Challenge

Breakout Session 2, Theme 3 - Contributions of the Private Sector and Industry

Open • Gruening • Room: 412

Panel discussion. Industry experience in data collection and sharing. Framing questions: 1 What data does, and can, industry collect and share? 2 What assets and resources can industry offer to help sustain Arctic Observations? 3 What is the value proposition for Industry?

- Chair: Paul Holthus. Panelists: Michael Macrander, Shell; Jennifer Hutchings, Oregon State University; Eric Febbo, ExxonMobil; Kevin Hilmer-Pegram, UAF

Breakout Session 2, Theme 4 - Actor and Stakeholder Engagement and Needs

Open • Gruening • Room: 206

Speakers and discussion. Approaches and tools for actor and stakeholder engagement and for building capacity. Embedding observations to strengthen stakeholder capacity.

Breakout Session 2, Theme 5 - Global Initiatives**Open • Gruening • Room: 306**

Speakers and discussion. Global coordination for Arctic observations: not just snow and ice. Speakers: Joanna Bullard, Dept. of Geography, Loughborough Univ. - Arctic Dust Observation; Renee Tatusko, NOAA National Weather Service.

- Discussion: Emerging topics will be highlighted that need focus, strengthening, and parameters that require global coordination.

Breakout Session 2, Theme 6 - Indigenous Knowledge, Community-based Monitoring and Scientific Methods**Open • Gruening • Room: 208**

Facilitated discussions. Breakout Session 2 will examine in more detail the components of Community-based Monitoring, CBM projects that are successful from an Indigenous Knowledge lens. This will be a facilitated session that examines the components that make up best practices. Positive examples of CBM will be highlighted.

4:45 pm-5:15 pm**AOS from Breakout Sessions****Open • Davis Concert Hall**

Following the breakout sessions under each AOS theme, this brief wrap-up session will be used to discuss the preliminary input from AOS white papers, Thematic Working Groups, and AOS participants. Focused discussion will continue during AOS Day 2 and Day 3.

5:30-8:00 pm**AOS Poster Session 1****Open • Wood Center Second Floor Mezzanine**

Your contributions in the form of poster presentations are welcome to highlight important issues and to facilitate the exchange of knowledge and ideas to design, build, implement, expand, and provide long-term support for an international Arctic observing systems network.

Posters will go up for display starting at noon on 16 March. Presenters will discuss their posters in person between 5:30 and 8 pm during two Poster Sessions, on 16 and 17 March. Light snacks and a cash bar will be available. Entrance to Poster Session will require personal ID such as passport or a U.S. drivers license. Posters will be taken down by noon on Friday, 18 March. Poster abstracts can be viewed on the [AOS2016 website](#).

Thursday, 17 March**7:15-8:30 am****Organizing Committee and Co-Lead meeting****Closed • Gruening • Room: 303****8:45-10:45 am****Arctic Observing Summit Plenaries****Open • Davis Concert Hall****AOS SESSION C**

- Synopsis from AOS 2016 Thematic Working Groups
- Overview of community input, white papers, posters, town halls, and other

Presentations will include overviews by AOS Thematic Working Group Co-leads under each theme. Input from these presentations will contribute to the AOS Thematic Working Group breakout sessions that follow., Open to all AOS participants

- Theme 1- International and National Strategies for sustained support of long-term Arctic Observing - Co-leads: Andrea Tilche, European Commission; Jeremy Mathis, NOAA
- Theme 2- Technology and Innovation - Co-leads: Cliff Sweatie, International Civil Aviation Organization, USA; Rune Storvold, NORUT, Norway
- Theme 3- Contributions of the Private Sector and Industry - Co-leads: Paul Holthus, World Ocean Council, USA; David Arthurs, Polar View Earth Observation Limited, Canadian Office
- Theme 4- Actor and Stakeholder Engagement and Needs - Co-leads: Craig Fleener, Office of the Governor, Cabinet Office, Alaska; Martin Sommerkorn, WWF Global Arctic Program, Norway office
- Theme 5- Arctic Observations in the Context of Global Observing Initiatives - Co-leads: Hiroyuki Enomoto, National Institute of Polar Research, Japan; Dominique Berod, GEO Secretariat, Switzerland
- Theme 6- Interfacing Indigenous Knowledge, Community-based Monitoring and Scientific Methods - Co-leads: Raychelle Aluaq Daniel, Arctic Conservation Science Team, Pew Charitable Trusts; Lene Kielsen Holm, Greenland Climate Research Center, Greenland Institute of Natural Resources; Rodd Laing, Nunatsiavut Government

BREAK 10:45-11:00 am**11:00 am-12:15 pm**

Concurrent break-out sessions below are open to all AOS participants. Participants can move among rooms of the six AOS themes.

Breakout Session 3, Theme 1 - International and National Strategies for Sustained Support of Long-Term Arctic Observing**Open • Gruening • Room: 409**

- Co-leads: Andrea Tilche, European Commission; Jeremy Mathis, NOAA
- Speakers and discussion. Support Strategies. Speakers: Christine Daae Olseng, SAON, Sustaining Arctic Observing Networks; Sue Moore, NOAA/NMFS/OST, Tatiana Vlasova, Institute of Geography Russian Academy of Sciences

Breakout Session 3, Theme 2 - Technology and Innovation for Sustained Arctic Observations**Open • Gruening • Room: 408**

- Co-leads: Cliff Sweatie, International Civil Aviation Organization, USA; Rune Storvold, NORUT, Norway
- Speakers and discussion. Alaska Center for Unmanned Aircraft Systems Integration, ACUASI. Speaker: Cathy Cahill, ACUASI and Arctic Science Operations

Breakout Session 3, Theme 3 - Contributions of the Private Sector and Industry-Sustained Arctic Observations

Open • Gruening • Room: 412

- Co-leads: Paul Holthus, World Ocean Council, USA; David Arthurs, Polar View Earth Observation Limited, Canadian Office
- Workshop. Fostering data collection and sharing by industry.
- Structured workshop discussion with all attendees. Framing questions: 1 How can cooperation between industry and the research community be best coordinated?, 2 What are the impediments to cooperation?

Breakout Session 3, Theme 4 - Actor and Stakeholder Engagement and Needs in Sustained Arctic Observations

Open • Gruening • Room: 206

- Co-leads: Craig Fleener, Office of the Governor, Cabinet Office, Alaska; Martin Sommerkorn, WWF Global Arctic Program, Norway office
- Speakers and discussion. Observations for identifying sustainable pathways in the context of responding to social and ecological change.

Breakout Session 3, Theme 5 - Arctic Observations in the Context of Global Observing Initiatives

Open • Gruening • Room: 306

- Co-leads: Hiroyuki Enomoto, National Institute of Polar Research, Japan; Dominique Berod, GEO/World Meteorological Organization, Switzerland
- Speakers and discussion. Global coordination for Arctic observations: contributors. Speakers: Matthew Druckemiller, National Snow and Ice Data Center, Univ. of Colorado Boulder - Global coordination mechanisms for the Arctic; and Wolfgang Schöner, Dept. of Geography and Regional Science, Univ. of Graz - the Global Cryosphere Watch, GCW
- Discussion: Building an efficient coordination system: which organizations, which mechanisms?

Breakout Session 3, Theme 6 - Interfacing Indigenous Knowledge, Community-Based Monitoring and Scientific Methods for Sustained Arctic Observations

Open • Gruening • Room: 208

- Co-leads: Raychelle Aluaq Daniel, Arctic Conservation Science Team, PEW Charitable Trusts; Lene Kielsen Holm, Greenland Climate Research Center, Greenland Institute of Natural Resources; Rodd Laing, Nunatsiavut Government
- Facilitated discussions. Breakout Session 3 will cover some of the recommendations that the Thematic Working Group has identified as guidelines for sustaining long-term observing systems that truly come from an Indigenous Knowledge lens. Some of the recommendations include education, capacity building and co-production of knowledge.

LUNCH 12:15-1:45 pm

1:45-3:00 pm

Arctic Observing Summit Plenaries

Open • Davis Concert Hall

BREAK 3:00-3:30 pm

AOS SESSION D: Cross-theme presentations and discussions

Plenary sessions will highlight the key findings from the white paper process including identified priorities, challenges, and progress to date under each theme. Cross-theme discussions will lead into breakout sessions.

- Data management and access: Peter Pulsifer, National Snow and Ice Data Center
- Private-public partnerships: Paul Holthus, World Ocean Council and Michael Macrander, Shell

3:30-5:00 pm

Concurrent break-out sessions below are open to all AOS participants. These sessions focus on cross-theme discussions and issues that are broader in scope and link components of various themes.

Cross-Theme Breakout Session 4A: Community-Based Monitoring

Open • Gruening • Room: 208

Facilitated discussion with Theme 6 as lead, and linkages to Theme 1 and Theme 4. Based on the white papers submitted to this session, the reviews, and the draft synthesis, a consistent message was that in order for successful, long-term observation an imperative that scales from the Indigenous Knowledge holder in the community to the decision-maker is needed. Linkages with Theme 1: looking towards sustainable observations systems that will also meet the needs of Indigenous Knowledge holders in Arctic communities.

Cross-Theme Breakout Session 4B: Data Accessibility and Management

Open • Gruening • Room: 206

Facilitated discussion; linkages among all themes. Topics: data ownership; storage and archiving; interoperability; cyber-infrastructure and platforms; accessibility; user needs.

Cross-Theme Breakout Session 4C: Innovative Partnerships

Open • Gruening • Room: 409

Facilitated discussion with Theme 5 as lead, and linkages to Themes 1, 2 and 4.

- Global coordination for Arctic observations: The way forward. Topics: 1 Long-term plan for Arctic environmental research; 2 Arctic observations for monitoring and understanding Arctic climate change. Speakers: Yuji Kodama, National Institute of Polar Science; and Seong-Joong Kim, Korea Polar Research Institute
- Discussion: How to build sustainable, efficient and user-driven observations networks for cross-cutting issues

Cross-Theme Breakout Session 4D: Technology

Open • Gruening • Room: 408

Facilitated discussion with Theme 2 as lead, and linkages to Themes 3, 4 and 5.

- Towards a pan-Arctic observing network. Speaker: Morten Rasch, University of Copenhagen- Use of unmanned aircraft, Villum Research Station, Greenland.

Cross-Theme Breakout Session 4E: Flexible Topic

Open • Gruening • Room: 412

Facilitated discussion; topic will be selected with input from AOS participants during Summit.

Cross-Theme Breakout Session 4F: Flexible Topic

Open • Gruening • Room: 306

Facilitated discussion; topic will be selected with input from AOS participants during Summit.

5:30–8:00 pm

AOS Poster Session 2

Open • Wood Center Second Floor Mezzanine

Your contributions in the form of poster presentations are welcome to highlight important issues and to facilitate the exchange of knowledge and ideas to design, build, implement, expand, and provide long-term support for an international Arctic observing systems network.

Posters will go up for display starting at noon on 16 March. Presenters will discuss their posters in person between 5:30 and 8 pm during two Poster Sessions, on 16 and 17 March. Light snacks and a cash bar will be available. Entrance to Poster Session will require personal ID such as passport or a U.S. drivers license. Posters will be taken down by noon on Friday, 18 March. Poster abstracts can be viewed on the [AOS2016 website](#).

Friday, 18 March

7:15–8:30 am

Organizing Committee and Co-Lead meeting

Closed • Gruening • Room: 303

8:45 am–10:45 am

Arctic Observing Summit Plenaries and Synthesis

Open • Davis Concert Hall

AOS SESSION E - Plenaries and 2016 Synthesis

Plenary sessions will synthesize results from the AOS 2016, including findings from breakout sessions and cross-cutting issues relevant to implementation, collaboration, priorities, gaps, and sustained support for an international Arctic Observing System of Systems.

Cross-theme keynote presentations

- Sustained observations: Integrating remote sensing platforms and data into sustained observations - NOAA Satellite Programs: Stephen Volz, National Oceanic and Atmospheric Administration

- How can the WMO address challenges that come with rapid Arctic change across a range of sectors that require responses and partnerships: David Carlson, World Climate Research Programme

Key findings and progress: Synthesis of 2016

Brief reports and contributions to conference statement from each AOS Thematic Working Group, 10 min each

BREAK 10:45–11:00 am

11:00 am–1:00 pm

Arctic Observing Summit Panel Discussion and Conclusion

Open • Davis Concert Hall

AOS SESSION F - Panel Discussion and Conclusion: AOS recommendations and conference statement

- Arctic Council and IASC, Sustaining Arctic Observation Networks, SAON: Christine Daae Olseng, Chair
- Arctic Council, Permanent Participants: Jannie Staffansson, Saami Council, Norway
- Arctic Council, Emergency Prevention, Preparedness and Response Working Group: Amy Merten, Chair
- Arctic Council, Conservation of Arctic Flora and Fauna: Gilbert Castellanos
- Arctic Council, Sustainable Development Working Group: Roberta Burns, Chair, U.S. Department of State

AOS SESSION G - Conclusion: AOS 2016 outcomes and the future - AOS Executive Organizing Committee

- Highlight key findings and progress: AOS Executive Organizing Committee
- Final discussion and questions from audience
- Call for action and conference statement: Members from international organizations
- Priorities, Gaps and Recommendations
- Plans for AOS 2018 and AOS 2016 Conclusion

LUNCH 1:00–2:30 pm

2:30–3:30 pm

Post-Summit Organizing Committee Meeting

Closed • Gruening • Room: 303

Closed meeting - AOS Executive Organizing Committee

Side Meetings for Other Groups

Friday, 11 March

6:00-8:00 pm

Icebreaker Reception

Open • UA Museum of the North

Saturday, 12 March

9:00 am-5:00 pm

Arctic Monitoring & Assessment Program/ EU-PolarNet Stakeholder Workshop on Research Needs for Arctic Health and Wellness

Open • Duckering • Room: 252

The Arctic Monitoring & Assessment program is an Arctic Council Working Group that provides comprehensive information on the status of, and threats to, the Arctic environment. It also provides scientific advice on actions to be taken to support Arctic governments in their efforts to take remedial and preventive actions relating to contaminants and adverse effects of climate change. EU-PolarNet is the world's largest consortium of expertise and infrastructure for polar research. Seventeen countries are represented by 22 of Europe's internationally respected multidisciplinary research institutions. From 2015–2020, EU-PolarNet will develop and deliver a strategic framework and mechanisms to prioritize science, optimize use of polar infrastructure, and broker partnerships that will lead to the co-design of polar research projects that deliver tangible benefits for society.

Sunday, 13 March

Daylight Savings Time begins at 2:00 am today.

Please remember to set your clocks forward one hour.

8:00 am-5:00 pm

Make an Impact Workshop (Day 1)

Closed • Bunnell • Room: 402 and 410

ARCUS (Arctic Research Consortium of the US) is hosting the kick-off workshop for its Arctic in the Classroom program on 13–15 March.

The goal of the workshop is to bring together Alaska/Arctic teachers and researchers to collaborate on the development of STEM educational resources related to Arctic research priorities. This workshop will partner scientists and educators to improve Arctic education and provide an opportunity for Arctic science to have broader impacts on students, teachers, and Arctic communities.

9:00 am-5:00 pm

CACCON, a Circum-Arctic Network of Coastal Communities

Open • Duckering • Room: 252

CACCON (the Circumpolar Arctic Coastal Communities Observatory Network) is the Arctic Regional Engagement Network of coastal communities for Future Earth Coasts. This meeting aims to discuss approaches and progress in the CACCON vision for a circumpolar network of knowledge hubs and the emerging global state-of-the-coast assessment process under Future Earth Coasts. Partnered with the Research Coordination Network ArcticCOAST, the meeting will explore local priorities, challenges and successes in creating and sharing knowledge-for-action, and insights relevant to coastal sustainability efforts at local, regional, and pan-Arctic scales. In addition to local knowledge initiatives, the meeting will also explore the ingredients of success for knowledge sharing, partnerships, and synergy amongst existing Arctic networks.

9:00 am-noon

Collaboration, Progress and Implementation of the Circumpolar Biodiversity Monitoring Program

Open • Gruening • Room: 413

Purpose of meeting: To provide overviews of the CBMP goals and activities; to report on progress and products; and to solicit input and to discuss opportunities for collaboration, engagement, support, linkages, and data interoperability and accessibility.

9:00am-12:30pm

COPERA (carbon budget of ecosystems and cities and villages on permafrost in the eastern Russian Arctic)

Open • Gruening • Room: 402

9:00 am-12:30 pm

Second EU-PolarNet General Assembly

Closed • Bunnell • Room: Schaible Auditorium

EU-PolarNet is the world's largest consortium of expertise and infrastructure for polar research. Seventeen countries are represented by 22 of Europe's internationally-respected multi-disciplinary research institutions. From 2015–2020, EU-PolarNet will develop and deliver a strategic framework and mechanisms to prioritize science, optimize the use of polar infrastructure, and broker new partnerships that will lead to the co-design of polar research projects that deliver tangible benefits for society. The open part of the EU-PolarNet second General Assembly will focus on stakeholder mapping, the identification of research priorities for European polar science and the development of a coordinated European Polar Data Infrastructure.

10:00 am-noon

Next-Generation Ecosystem Experiments (NGEE) Land Surface Models (Arctic Terrestrial)

Closed • Gruening • Room: 401

International investigators will discuss opportunities for a future workshop focused on the land surface components of Earth System

Models. Teams around the world are developing models that share similar needs in areas of high-resolution data sets, process representation, model validation, and benchmarking. This meeting will serve as a kickoff for planning a community-wide workshop.

1:30-5:00 pm

Communicating Climate Change: In-Depth Workshop (FULL)

Open • Gruening • Room: 412

Shrinking glaciers, rising seas, and wacky weather. Communicating about these topics and other changes in the Arctic can be challenging, especially for audiences who do not live in the Arctic. The science and economic consequences are not only important to communities in Alaska, they are important for the world. Effective communication can help guide discussions about why these changes matter and what solutions are worth exploring.

In this small-group in-depth workshop, you will learn how to craft messages, communicate effectively with the media, and avoid pitfalls. Learn tips and tools from expert communicators, practice your skills in mock interviews, and come away with techniques that will help you communicate your science to the media, in the classroom, and at public events.

* This workshop is full. You are welcome to attend a related open session, Why DOES the Arctic Matter? Tips and Tools for Effective Communication (Monday 14 March, 9:00-11:30 am, Duckering 252)

1:00-4:00 pm

Circumpolar Biodiversity Monitoring Program - Co-Leads Meeting

Closed • Gruening • Room: 402

Discuss CBMP progress and other business between co-leads.

1:00-3:00 pm

Updating the Interagency Arctic Research Policy Committee (IARPC) 5-Year Research Plan: Community Input

Open • Gruening • Room: 408

The Interagency Arctic Research Policy Committee (IARPC), which consists of principals from 16 agencies, departments, and offices across the Federal government, is charged with enhancing the scientific monitoring of and research on local, regional, and global environmental issues in the Arctic. IARPC is currently developing a new 5-year research plan. IARPC representatives will discuss progress and are interested in hearing your priorities for the development of the next IARPC 5-year research plan and the implementation of the current plan.

The Arctic Research Consortium of the United States (ARCUS) will facilitate this stakeholder listening session to gather ideas about funded work or programs that IARPC can incorporate as Research Objectives and Performance Elements in support of the new research Goals. All members of the Alaska, U.S., and international Arctic research community and other stakeholders are invited to participate in this open session.

1:30-5:00 pm

Asian Forum for Polar Sciences

Closed • Gruening • Room: 206

The Asian Forum of Polar Sciences (AFoPS) is an 11-year old Asian organization dedicated to polar research and logistics cooperation.

In this closed session, the five Members (China, India, Japan, Korea and Malaysia) and observers will discuss the collective endeavors in human and information exchange, research collaboration, and logistics cooperation among the Asian polar science institutions.

1:30-5:00 pm

Second EU-PolarNet General Assembly

Open • Bunnell • Room: Schaible Auditorium

EU-PolarNet is the world's largest consortium of expertise and infrastructure for polar research. Seventeen countries are represented by 22 of Europe's internationally-respected multi-disciplinary research institutions. From 2015-2020, EU-PolarNet will develop and deliver a strategic framework and mechanisms to prioritize science, optimize the use of polar infrastructure, and broker new partnerships that will lead to the co-design of polar research projects that deliver tangible benefits for society. The open part of the EU-PolarNet second General Assembly will focus on stakeholder mapping, the identification of research priorities for European polar science and the development of a coordinated European Polar Data Infrastructure.

3:00-5:00 pm

Multi-disciplinary Drifting Observatory for the Study of Arctic Climate - Town Hall Meeting

Open • Gruening • Room: 409

The Multidisciplinary drifting Observatory for the Study of Arctic Climate (MOSAiC) is an international, interdisciplinary initiative organized around a year-long drifting constellation of coupled system observations in the Central Arctic (2019-2020). The ultimate goal is to improve understanding of coupled atmosphere-ice-ocean-ecosystem processes in the Central Arctic to support improved sea ice forecasting, regional weather forecasting, and climate prediction. This town hall meeting will provide an overview of MOSAiC science drivers, introduce the new MOSAiC Scientific Implementation Plan, provide details on logistical support for the initiative, and describe the pathway for scientific involvement by the international community. Introductory presentations on these topics will be given, followed by an open discussion session. The goal for this meeting is to support international coordination on science, infrastructure, logistics, and support for MOSAiC. This is an open meeting.

Monday, 14 March

8:00 am-5:30 pm

Arctic Council Resilience Workshop (Day 1)

Closed • Butrovich • Board of Regents Conference Room

Coordinated by the US Department of the Interior/Arctic Council, this workshop will bring Arctic Council Member States, Permanent Participants, and Working Groups together to discuss improving resilience in a rapidly changing Arctic. Resilience is a key priority of the U.S. Chairmanship of the Arctic Council. Participants will discuss synergies between Arctic Council resilience initiatives, as well as how these initiatives can more effectively foster resilience on-the-ground. Participants will also explore the role of the Arctic Council in improving the region's long-term resilience.

8:00 am-5:00 pm**Creation of Communal Research Priorities Regarding Pacific Walruses****Open • Akasofu • Room: 501**

We would like to bring together stakeholders (i.e., management, co-management, local hunters, and researchers) to discuss where western management, co-management, and community interests may overlap in future plans and priorities for walruses. This is timely and relevant due to a potential Endangered Species Act listing of walruses in 2016 that could further impact stakeholder communities and is already generating concern.

8:00 am-5:00 pm**Make an Impact Workshop (Day 2)****Closed • Bunnell • Room: 402 and 410****8:00 am-6:00 pm****Resilience Workshop (Breakout sessions)****Closed • Butrovich • Rooms: 109a, 109b****9:30-11:30 am****IARPC Data Collaboration Team Open Town Hall****Open • Gruening • Room: 408**

Arctic science, observing systems and Northern residents are generating large volumes of valuable data and information that have the potential to transform our understanding of the Arctic and global environment and society. Along with new technologies, these data provide many opportunities and challenges with respect to how data can be managed, shared, analyzed, visualized and otherwise used. The Arctic Data Coordination Team of the U.S. Interagency Arctic Research Policy Committee is hosting this open town hall meeting to facilitate discussion on aspects of Arctic data and information management. Themes include:

- Fostering International data collaboration;
- Enhancing the Arctic Theme for the Climate Data Initiative and the Climate Resilience Toolkit;
- Identification and discussion of high value “pathfinder projects” that can help to demonstrate and advance data sharing across agencies and international partners; and
- Research crossover with operations (Search and Rescue, Disaster preparation and response). A special presentation will be given on the joint NASA and DoD Arctic Collaborative Environment Project by John Walsh of UAF and Stephen Spehn, Deputy Science Advisor for the U.S. European Command FD.

9:00 am-noon**The Arctic Domain Awareness Center: Enhancing Operational Security in the Arctic Marine System****Open • Gruening • Room: 412**

The Arctic Domain Awareness Center (ADAC) is a U.S. Department of Homeland Security Center of Excellence program primarily developed to meet the information needs of the U.S. Coast Guard as they increase and extend their operations in the North Pacific, Bering, Beaufort and Chukchi Seas. Although this is an Alaskan state-wide program with national participation, primary administration is through the University of Alaska Anchorage with research partnerships at the University of Alaska Fairbanks. ADAC strives to develop and

transition technology solutions, innovative products, and educational programs to improve situational awareness and crisis response capabilities related to emerging maritime challenges posed by the dynamic Arctic environment. ADAC research areas include Maritime Domain Awareness, Maritime Situational Awareness and Response Support, Maritime Technology Research, and Integrated Education.

We will host a townhall style meeting to explain the purpose of the Arctic Domain Awareness Center, describe the research needs of the Coast Guard and solicit input on active and future research projects that enhance operational security in the Arctic marine system.

9:00 am-12:30 pm**International Arctic Systems for Observing the Atmosphere/Arctic Flux Network - Organizing Committee****Open • Gruening • Room: 401**

The purpose of this workshop is to bring together researchers from atmosphere, terrestrial and cryospheric communities to share and develop interdisciplinary science questions and methods to address them related to flux observations in the Arctic.

9:00 am-5:00 pm**Natural Hazards and Risk Management in the Arctic****Open • Gruening • Room: 413**

The first session of this meeting focuses on presentations that report new ideas and best practices in the fields of hazard preparedness, monitoring, forecasting, prevention and mitigation, and also disaster response and recovery in the Far North. Sets of 15-minute presentations will be followed by moderated 30-minute discussions.

The second session will be devoted to a Peer-to-Peer project funded by the U.S. Embassy in Moscow. The project engages stakeholders in dialog from two case study communities impacted by ice-jam floods. One community is Edeytsy on the Lena River north of Yakutsk, Sakha Republic, Russia. The other is Galena on the Yukon River west of Fairbanks. Both communities were severely damaged in May 2013, and are now recovering. The Peer-to-Peer group will report on progress to date in identifying best practices in reducing flood risk and will welcome comments from the broader Interior Alaska community on dealing with these kinds of flooding events.

9:00 am-11:30 am**Why DOES the Arctic Matter? Tips and Tools for Effective Communication****Open • Duckering • Room: 252**

Shrinking glaciers, rising seas, and wacky weather. Communicating about these topics and other changes in the Arctic can be challenging, especially for audiences who do not live in the Arctic. The science and economic consequences are not only important to communities in Alaska, they are important for the world. Effective communication can help guide discussions about why these changes matter and what solutions are worth exploring.

This interactive workshop for climate communicators of all experience levels will focus on some of the more difficult aspects of communicating science, including strategies for leading with local and personal stories, tips for engaging various audiences, and advice on avoiding potential pitfalls. These lessons can be helpful in the classroom, at public events, and with media interviews. Small group

discussions and mock interviews will offer veteran communicators and novices alike the chance to practice creating and delivering messages about why the Arctic matters.

12:30–5:30 pm

IPS Meeting

Closed • Akasofu • Room: 401

Annual Arctic Council Indigenous Peoples' Secretariat meeting.

1:00–3:00 pm

Reducing the Incidence of Suicide in Indigenous Groups – Strengths United through Networks (RISING-SUN) Initiative

Open • Gruening • Room 412

1:45–5:00 pm

A New Sharing Space for Community Based Preparedness and Response: The Arctic Adaptation Exchange Portal (First session)

Open • Akasofu • Room: 401

Humans are wired to share what they know, and ask advice when they want to know something they don't. We are a community of learners and sharers and the Arctic Adaptation Exchange Portal (AAEP) is the first "sharing space" of its kind to do exactly this.

AAEP allows communities to share their experiences on the ground as well as what they've learned from taking different actions, from preparedness to responses. It's a sharing space where anyone can place their thoughts, their ideas, what they've done and what they're facing in terms of challenges and barriers. It's also a space to identify opportunities, because changing environments are about both losses and gains. We want to hear from YOU about the AAEP. We'll show you what it can do and how it can be useful to your efforts.

3:00–6:00 pm

Arctic Air Pollution: A Collaborative Framework for Natural and Social Science

Open • Gruening • Room: 401

The purpose is to draw together researchers active in the physical/chemical science of air pollution with those active in development, sustainability, risk, adaptation, policy, and health, in order to explore common interests and begin to outline joint research objectives.

5:00–8:00 pm

Planning for the Year of Polar Prediction

Open • Duckering • Room: 252

The purpose of this meeting will be to involve ASSW and AOS in the further planning of the Year of Polar Prediction.

6:00–8:00 pm

Arctic Futures Initiative Town Hall meeting

Open • Gruening • Room: 306

6:30–8:30 pm

Polar Data Management: A Rough Guide for Researchers

Open • Gruening • Room: 412

Tuesday, 15 March

8:00 am–6:00 pm

Arctic Council Resilience Workshop (Day 2)

Closed • Butrovich • Board of Regents Conference Room

8:00 am–5:00 pm

International Arctic Assembly Day

Open; Public • Davis Concert Hall

The International Arctic Assembly is an unprecedented chance to explore a broad range of perspectives and objectives related to Arctic research. Scientists, policymakers, technical experts and other stakeholders will discuss and share ideas and information to advance human well-being, security and technology in the Arctic. See the full agenda on pages 8–9.

8:00 am–6:00 pm

International Permafrost Association - Executive Committee Meeting

Closed • Gruening • Room: 401

8:00 am–5:00 pm

Make an Impact Workshop (Day 3)

Closed • Bunnell • Room: 402 and 410

8:00 am–6:00 pm

Resilience Workshop (Breakout session)

Closed • Butrovich • Rooms: 109a, 109b

9:30 am–12:30 pm

Arctic Museum Collections: Documenting and Understanding Changes in Biological and Cultural Diversity through Time and Space

Open • UA Museum of the North

Vast digital resources are being rapidly developed in museums all over the world and are particularly relevant in the Arctic. The UA Museum of the North is a leader in Arctic and sub-Arctic collections and their digitization with our multi-collection database Arctos, arctosdb.org.

This workshop focuses on current informatics infrastructure, developing large networks of Arctic collections collaborators, and engaging new members and their students in issues relevant to the Arctic and sub-Arctic.

10:30 am–12:30 pm

A New Sharing Space for Community Based Preparedness and Response: The Arctic Adaptation Exchange Portal (Second session)

Open • Akasofu • Room: 401

See description above.

Noon–5:00 pm

Arctic Council Senior Arctic Officials

Closed • Wood Center Ballroom

1:30–5:30 pm**Adapting to Loss of Sea Ice: Managing Land-Based Walrus Haul-Outs****Open • Gruening • Room: 306**

We'd like to bring together Alaska's community stakeholders and regulators to consider regulatory or voluntary measures to avoid disturbances to these haul-outs. We will consider the current regulatory framework and the potential for altitude restrictions to avoid disturbances from low-flying aircraft. The aim is to start a dialogue that leads to meaningful and practical protections for walrus and other ice-dependent subsistence resources.

2:00–4:00 pm**Arctic Research Consortium of the U.S. (ARCUS)****Open House****Open • Gruening • Room: 409****5:00–6:00 pm****Third Trilateral EU-US-Canada Arctic Meeting of the Transatlantic Ocean Research Alliance****Closed • Gruening • Room: 413**

The Transatlantic Ocean Research Alliance between EU, U.S. and Canada was launched to implement the Galway declaration of 24 April 2013. The objective is to develop and implement a shared strategy process to improve scientific cooperation in the Arctic.

Wednesday, 16 March

9:00 am–12:30 pm**Adapting to Loss of Sea Ice: Managing Land-Based Walrus Haul-Outs and Disturbances to Walruses in Russia****Open • Gruening • Room: 306**

We consider management of disturbances to walruses on the Russian side of the Bering Strait, where the numbers of hauled-out walruses on land are much greater than in Alaska. What can Alaskans and Russians learn from each other about their experience with walrus populations, and how can we work together?

9:00 am–5:00 pm**Arctic Council Senior Arctic Officials****Closed • Wood Center Ballroom****9:00 am–5:00 pm****Polar Knowledge Canada - Board of Directors Meeting****Closed • Akasofu • Room: 417**

Conduct Polar Knowledge Canada Board business. Possible joint session with USARC and/or with Alaska or other representatives.

9:00 am–12:30 pm**Polar Research Board****Closed • Akasofu • Room: 401****9:00 am–12:30 pm****U.S. Arctic Research Commission****Open • Akasofu • Room: 407****12:30 pm–5:00 pm****Alaska Ocean Observing System - Board Meeting****Open • Gruening • Room: 413**

The AOOS Board meets twice a year. The meeting will include AOOS business and presentations on AOOS ocean observing activities.

1:30–5:00 pm**Greenland Research Policy and Priorities - Greenlandic PhD Projects****Open • Gruening • Room: 401****1:30–5:00 pm****Joint Meeting: Representatives of the USARC, PRB, EPB, PKC, AFoPS****Closed • Akasofu • Room: 501**

Joint meeting of the U.S. Arctic Research Commission, Polar Research Board, European Polar Board, Polar Knowledge Canada, and Asian Forum for Polar Sciences.

Thursday, 17 March

9:00 am–5:00 pm**Arctic Council Senior Arctic Officials****Closed • Wood Center Ballroom****9:00 am–5:00 pm****Polar Knowledge Canada - Board of Directors Meeting****Closed • Akasofu • Room: 417****9:00 am–5:00 pm****Polar Research Board****Closed • Akasofu • Room: 401****6:00–8:00 pm****Barrow Atqasuk Science Advisors Meeting****Open • Gruening • Room: 401**

Hosted by UIC Science, participants will discuss ongoing operations and enhancement of science support capabilities in Barrow and Atqasuk, Alaska. Only Committee Members have voting privileges but the meeting will be open to anyone interested.

6:00–8:00 pm**World Wildlife Fund U.S. Arctic Field Program Marine Protection Discussion****Closed • Gruening • Room: 402**

Public Events

Friday, 11 March

11-13 March

Sustainable Northern Shelter Forum

Cold Climate Housing Research Center, 1000 Fairbanks St

The Cold Climate Housing Research Center, the Institute of the North and Natural Resources Canada will host the 4th Sustainable Northern Shelter Forum. This event is an opportunity for community leaders, builders, architects, building scientists, and planners to discuss common challenges and exchange solutions to producing sustainable, appropriate, and durable buildings and infrastructure in the circumpolar north. Topics include:

- Building Science and Construction in the North
- Energy and Alternative Energy Systems and Infrastructure
- Sustainable Design of Buildings and Communities that are defined by Culture and Environment

Registration: \$300/person, \$100/student, \$150/one day pass.
Participation limited to 100. More at <http://tinyurl.com/hm9j334>.

10:00 am-noon

Early Explorers Family Program

UA Museum of the North

Discover science, culture, and art through interactive investigations, hands-on exploration, and crafts that stimulate curiosity and encourage multigenerational collaboration. Great for kids age 5 and under (accompanied by an adult). Free with museum admission.

7:00-9:00 pm

Dark Winter Nights: North Through Our Eyes

Centennial Theater, Pioneer Park, 2300 Airport Way

Join us for an evening of storytelling and see the North through another person's eyes. Developed with the team that produces the Dark Winter Nights storytelling series and supported by the Alaska Center for Climate Assessment and Policy, you won't want to miss this special evening! Free admission.

Saturday, 12 March

9:00 am-5:00 pm

Antarctic Art Contest Exhibit

UA Museum of the North Cafe Gallery

See winning entries from the first Antarctic Art Contest in the UA Museum of the North's cafe gallery starting 12 March. Free admission to the Museum Cafe.

Noon-4:00 pm

Arctic Science Family Day

UA Museum of the North

Connect with museum collections and research; discover Arctic science, culture, and art; create crafts; try out experiments; meet the experts; and explore galleries. Free for kids 14 and under.

8:00-10:30 pm

Arctic Cinema & Science

Fine Arts Complex • Salisbury Theater

The Department of Theatre and Film from the UAF College of Liberal Arts invites you to the Fine Arts Complex • Salisbury Theatre for an evening of films celebrating the Arctic and science!

Sunday, 13 March

Daylight Savings Time begins at 2:00 am today.

Please remember to set your clocks forward one hour.

9:00 am-12:30 pm

Do We Speak the Same Language of Science?

Davis Concert Hall

Despite strong incentives for bringing together scholars from various branches of science, effective interdisciplinary research remains challenging. This symposium seeks to reopen and facilitate discussions about effective means of communication and collaboration between representatives of humanities, social sciences and natural sciences. Invited guests representing different branches of science will speak first on research methods, challenges and limitations of human, social and natural sciences. The second half of the symposium will focus on discussing best practices for interdisciplinary research in the Arctic, and ways for its further pursuit.

2:00-3:00 pm

Sneak Peek: UAF's Decision Theater North

West Ridge Research Building • Room: 010

Come to a pre-launch of Alaska NSF EPSCoR's Decision Theater North facility as part of Arctic Science Summit Week. This immersive data visualization space features seven 4K resolution screens and a full videoconferencing suite that uses UAF's computing and networking power to visualize data and research products to solve complex real-world problems. Open house will showcase the facility's present and future potential for data visualization and decision support for researchers, community members, and industry partners.

6:00-8:00 pm

Community Healing and Wellness: Addressing Historical Trauma through Incorporation of Traditional Knowledge and Practices

Bunnell • Room: Schaible Auditorium

Panelists will first provide an overview of Indigenous peoples in Alaska, including information regarding the history of colonization and its generational, traumatic impacts. Then, presentations of community-based research will focus on translating and implementing traditional knowledge into practices that increase resilience and contribute to healing among Alaska Native people, families and communities. A question and answer period will follow.

Panelists: Stacy Rasmus, Center for Alaska Native Health Research; Vice Chancellor Evon Peter, UAF College of Rural Development (CRCD); Judy Ramos, Assistant Professor, UAF Alaska Native Studies & Rural Development; and Jessica Black, Assistant Professor, CRCD.

Monday, 14 March

Noon-1:00 pm

Fairbanks Chamber Weekly Business Luncheon: Arctic Council Special Meeting with U.S. Senior Arctic Official Julie Gourley

Carlson Center, 2010 2nd Ave

Hosted in partnership with the Fairbanks Chamber of Commerce, Fairbanks Economic Development Corporation, and Fairbanks North Star Borough. It will feature a presentation by U.S. Senior Arctic Official Julie Gourley, who will review progress on U.S. priorities and key projects. Attending will be many Alaskans from the Fairbanks community and from across the state. Tickets can be purchased in advance on the Greater Fairbanks Chamber of Commerce website.

Noon-1:00 pm

Geophysical Institute Tour

Elvey Building Lobby

Visit the world-renowned Geophysical Institute. Tours include the Alaska Earthquake Center, Alaska Volcano Center, Alaska Satellite Facility, and more. No reservations required. The tour will begin in the lobby of the Elvey Building, 903 Koyukuk Drive.

2:00 to 3:00 pm

Sneak Peek: UAF's Decision Theater North

West Ridge Research Building • Room: 010

Come to a pre-launch of Alaska NSF EPSCoR's Decision Theater North facility as part of Arctic Science Summit Week. This immersive data visualization space features seven 4K resolution screens and a full videoconferencing suite that uses UAF's computing and networking power to visualize data and research products to solve complex real-world problems. Open house will showcase the facility's present and future potential for data visualization and decision support for researchers, community members, and industry partners.

5:00-7:00 pm

Art Show: Arctic Perspectives

Fine Arts Complex • UAF Art Gallery

Art inspired by the Arctic and research to improve Arctic understanding will be showcased in this public art-science event. Contributors include researchers and artists from the University of Alaska Fairbanks as well as members of the community.

Art will be on display 12-17 March during regular Gallery hours, 9 am-5 pm. The Gallery is located in the Art Department wing of the Fine Arts Complex, Room 313. On the left side of the Fine Arts Complex, the Gallery is the first door to the left immediately upon entering the wing.

5:00-7:00 pm

One Arctic Student Art Show

Arctic Java, UAF Wood Center

View original artwork on the theme "Many Lands, One Arctic" created by youth from around the world. Free admission.

6:00-10:00 pm

Visualizing the Relationships that Shape Our Work

Bunnell • Room: Schaible Auditorium

An event held in loving memory of Archana Bali, celebrating "Voices of the Caribou People Project" and "Our Shared Interest in Visual Research." The session will include films, film segments and panel discussions on the intersection of art, science, and visual research.

Tuesday, 15 March

8:00 am-5:00 pm

International Arctic Assembly Day

Davis Concert Hall

Scientists, policymakers, technical experts and other stakeholders will share ideas and information to advance human well-being, security and technology in the Arctic. See the full agenda on pages 6-7.

*One Day Pass required for admission (\$180/Regular; \$156/Early-Career; \$132 Student). Purchase at <http://tinyurl.com/z8hkv78>

9:30 am-12:30 pm

Arctic Museum Collections: Documenting and Understanding Changes in Biological and Cultural Diversity through Time and Space

UA Museum of the North

Vast digital resources are being rapidly developed in museums all over the world and are particularly relevant in the Arctic. The UA Museum of the North is a leader in Arctic and sub-Arctic collections and their digitization with our multi-collection database Arctos, arctosdb.org.

This workshop focuses on current informatics infrastructure, developing large networks of Arctic collections collaborators, and engaging new members and their students in issues relevant to the Arctic and sub-Arctic.

6:00-10:00 pm

International Arctic Assembly Banquet

Carlson Center, 2010 2nd Ave

Come mingle with fellow participants and Fairbanks locals to celebrate all things Arctic! Your ticket includes dinner and evening entertainment. All are welcome! Evening entertainment will feature Alaska performers Hobo Jim, Athabascan Dancers, the Inu-Yupiaq Dance Group, and Fireweed Fiddle. Dress: neat/casual. Conference registration not required. **Tickets: \$80 per person / \$640 per table.** Available online until 13 March (see the ASSW website) or at the Carlson Center at the will-call table on the night of the event. ASSW and AOS attendees: please note that the Banquet is not included with meeting registration, and must be purchased separately.

Wednesday, 16 March

10:00 am–8:00 pm

A Year in the Life of a Birch Tree

Lola Tilly Commons, Lower Campus • Room: 230

OneTree Alaska is a K-12 teacher-scientist partnership that uses Alaska white birch as the jumping-off point for active learning. During this public event, OneTree teachers, students, university researchers, artists, and community members will share their work, including measuring the effects of LED light treatments on seedling growth, observing budburst on seedlings overwintered in different dormancy environments, using innovations from the maple industry to improve backyard birch syrup-making, and more. This event is hands-on and appropriate for people of all ages: Come pin a label with your birth year and birthplace on the cross-section of an 80-year old spruce tree from Creamer's Field Migratory Waterfowl Refuge to create a lasting visual representation of the community gathered for Arctic Science Summit Week. Free admission.

Noon–1:00 pm

Geophysical Institute Tour

Elvey Building Lobby

Visit the world-renowned Geophysical Institute. Tours include the Alaska Earthquake Center, Alaska Volcano Center, Alaska Satellite Facility, and more. No reservations required. The tour will begin in the lobby of the Elvey Building, 903 Koyukuk Drive.

2:00–3:00 pm

Sneak Peek: UAF's Decision Theater North

West Ridge Research Building • Room: 010

Come to a pre-launch of Alaska NSF EPSCoR's Decision Theater North facility as part of Arctic Science Summit Week. This immersive data visualization space features seven 4K resolution screens and a full videoconferencing suite that uses UAF's computing and networking power to visualize data and research products to solve complex real-world problems. Open house will showcase the facility's present and future potential for data visualization and decision support for researchers, community members, and industry partners.

5:00–6:00 pm

Open House: Ocean Acidification Research Center

Irving II • Room: 332

OARC has been monitoring the effects, intensity and duration of ocean acidification in Alaska's waters since 2008. We currently maintain the Alaska Ocean Acidification Mooring Network and participate on research cruises in the Gulf of Alaska, Bering Sea, and the Arctic Ocean. See demonstrations of our analytical instrumentation, autonomous equipment, and shipboard measurements.

6:00–8:00 pm

Family Game Night

Fine Arts Complex • Great Hall

Bring your whole family for an evening of interactive activities and games to learn about the Arctic, places and more. There will be light refreshments. Free admission.

Thursday, 17 March

9:30–11:30 am

Arctic Remote Energy Networks Academy (ARENA) Forum

Lola Tilly Commons, Lower Campus • Large Conference Room

A project of the Arctic Council's Sustainable Development Working Group, ARENA addresses the need for affordable, reliable, and renewably sourced energy solutions for communities that are located in more remote areas of the Arctic. It integrates web-based seminars with classroom learning, field experience, and draws from best practices established through the experience of the people living in the Arctic. Participants will bring back to their home countries knowledge, skills, tools, and a network of collaborators that will facilitate integrating clean energy technologies into their communities and help improve the management of fossil fuel resources used for power production and heating. A multi-week pilot program is planned for the summer of 2016.

The University of Alaska Fairbanks' Alaska Center for Energy and Power will host a forum about this pilot program. Participants will learn what a microgrid is, the issues encountered when integrating renewable resources, and tour a fully operational microgrid laboratory on the UAF campus.

7:00–8:00 pm

Coastal bathtub rings: What ancient shorelines tell us about future sea level rise—A Science for Alaska Lecture with Julie Brigham-Grette

Wedgewood Resort, 212 Wedgewood Dr

Glacial and interglacial change during the ice ages uniquely imposed on the Bering Strait region some of the most radical changes in sea level and paleogeography documented in the Northern Hemisphere. The Bering Land Bridge is a landscape that existed because of glaciation, exposing the shallow parts of the Bering and Chukchi seas. Following the transition from a forested Arctic 3 million years ago to the first major glaciation of the northern hemisphere about 2.6 million years ago, coastal marine deposits found along the coasts of Alaska and Chukotka record a number of critical transitions in the evolution of Northern Hemisphere climate.

Ancient shorelines, or bathtub rings, record natural global warming as well as the northward migration of marine ecosystems and changes in the extent of sea ice along Alaska's shores. Changes in Beringian shorelines likely influenced the migration of man into North America. New research helps us understand the rate and timing of the last submergence of the Bering Strait, 12,000 years ago, and how ongoing sea level rise will cause changes in the shorelines we live along today.

Noon–1:00 pm, 2:00–3:00 pm, and 4:00–5:00 pm

Energy Technology Facility Tour

Energy Technology Facility, UAF campus

The Alaska Center for Energy and Power (ACEP) facilities are designed to offer a testing environment to technology developers. Envisioned as an intermediate step to full commercial deployment, these test facilities have been carefully designed to be easily reconfigured for a range of testing needs, thus permitting assessment of product performance based on many real world conditions. Sign up for a tour at the UAF booth or e-mail mefrey@alaska.edu. Space is limited.

Friday, 18 March

10:00 am–noon

Early Explorers Family Program

UA Museum of the North

Discover science, culture, and art through interactive investigations, hands-on exploration, and crafts that stimulate curiosity and encourage multigenerational collaboration. Great for kids age 5 and under (accompanied by an adult). Free with museum admission.

Noon–1:00 pm

Geophysical Institute Tour

Elvey Building Lobby

Visit the world-renowned Geophysical Institute. Tours include the Alaska Earthquake Center, Alaska Volcano Center, Alaska Satellite Facility, and more. No reservations required. The tour will begin in the lobby of the Elvey Building, 903 Koyukuk Drive.

Saturday, 19 March

10:00 am–noon

Beaver Sports Spring Equinox 5K Run/Walk

UAF North Campus Area

Come join us for the first-ever Spring Equinox Run/Walk and help welcome the sun and springtime to the Far North! **Your entry fee of \$20** will support Polar Educators International, a vibrant network that promotes polar education and research to a global community, in spirit with the purpose of Arctic Science Week 2016.

Course includes roads and trails on the UAF campus, with views of the Alaska Range, a chance to explore the natural areas of the UAF campus, and some well-deserved time outside after a week of meetings! Open to all ages; prizes for top finishers. Sign up at Beaver Sports (3480 College Road) or at the UAF Wood Center.

Not attending ASSW? Join the PEI Virtual 5K! Learn more at

<http://tinyurl.com/zz967ut>

2:00–4:00 pm

Junior Curators Family Program: Arctic Adaptation

UA Museum of the North

Discover science, culture, and art through interactive investigations, hands-on exploration, and crafts that stimulate curiosity and encourage multigenerational collaboration. Great for kids age 6 and up (accompanied by an adult). Free with museum admission.

Model Arctic Council

The Model Arctic Council (MAC) is an experiential learning exercise in which graduate and undergraduate students from institutions across the Arctic and the world convene to represent and simulate the work of Member States, Permanent Participants, and Observers of the Arctic Council.

MAC is a forum for students from across the Arctic that aims to expand knowledge of Arctic issues and international politics, prepare students to assume leadership roles in the Arctic, and enhance collaboration among University of the Arctic institutions.

The objectives of the MAC are to develop students' knowledge of the Arctic as a region, of circumpolar politics, and of northern Indigenous peoples; increase students' understanding of Arctic Council objectives and processes; prepare students to assume leadership roles in the circumpolar north; and enhance student and faculty collaboration among UArctic institutions.

Future MACs will be hosted in the spring of even-numbered years by a UArctic member institution in the country that holds the Arctic Council chairship. Partners for MAC 2016 include:

- Dartmouth College
- Northeastern Federal University
- Northern (Arctic) Federal University
- St. Petersburg State University
- Umeå University
- United States Coast Guard Academy
- University of Akureyri
- University of Lapland
- University of Northern British Columbia
- University of Tromsø - The Arctic University of Norway
- University of Washington

Learn more: www.uaf.edu/mac/



Students participate at the Model Arctic Council event at the Northern (Arctic) Federal University in February 2014. (UAF photos by Troy Bouffard)



Alaska Arctic Council Host Committee

Promoting the reality of, richness in, and responsibility for Alaska's Arctic during the U.S. Chairmanship of the Arctic Council 2015-2017

Our Roles and Responsibilities

Alaska Governor Bill Walker convened the Alaska Arctic Council Host Committee for the U.S. Chairmanship of the Arctic Council. The Committee is charged with highlighting Alaska issues and priorities by showcasing Alaska to visiting Arctic Council delegations, the broader U.S., and the international community.

The Host Committee also serves to welcome visiting delegations by hosting events around the Arctic Council meetings. The Host Committee assists, as needed, the State Department and Governor's office in identifying and convening subject matter experts, local community leaders, and other stakeholders for participation in Arctic Council and other activities during this period. The Institute of the North—a nonprofit organization based in Anchorage, Alaska—serves as the Host Committee Coordinator and Secretariat.

In October 2015, the Arctic Council Senior Arctic Officials met in Anchorage and the Alaska Host Committee organized several educational and welcoming events, including: a Youth Forum where Alaskan youth engaged with Arctic Council delegations, sharing their experiences of living in Alaska and learning from the delegations; meetings with an Arctic Council working group and Alaska subject matter experts; a luncheon featuring U.S. Senior Arctic Official Julie Gourley and Governor Bill Walker; a site visit to Nome; and a reception at the Alaska Aviation Heritage Museum.

A number of activities are planned for the Arctic Council meetings in Fairbanks in March. Please visit the Alaska Arctic Council Host Committee exhibit booth to learn more about these, and Alaska.

The Host Committee welcomes ASSW, MAC, IAAD, SAO and AOS participants and delegates to Alaska, the heart of the American Arctic; and to Fairbanks, the Golden Heart of Alaska.

All photos by Matt Waliszek / Orzel Photography



All Events Listed by Day

Find event details in event category listings (ASSW, AOS, Side Meetings, Public Events).

Friday, 11 March

6:00–8:00 pm 11–13 March	Icebreaker Reception.....	Special Event for Conference Attendee
1:30–5:00 pm	Sustainable Northern Shelter Forum.....	Public Event
2:00–5:00 pm	Cold Climate Housing Center / UAF Large Animal Research Station Tour	Tour for Conference Attendees
7:00–9:00 pm	Trans-Alaska Pipeline / Permafrost Tunnel Tour (ID required)	Tour for Conference Attendees
	Dark Winter Nights: North Through Our Eyes	Public Event

Saturday, 12 March

9:00 am–5:00 pm	Antarctic Art Contest Exhibit	Public Event
9:00 am–5:00 pm	Arctic Monitoring & Assessment Program/EU-PolarNet Stakeholder Workshop on Research Needs for Arctic Health and Wellness	Side Meeting
9:00 am–5:30 pm	Forum of Arctic Research Operators.....	ASSW
9:00–10:00 am	International Arctic Science Committee Working Groups: Joint Meeting.....	ASSW
9:00 am–8:00 pm	International Arctic Science Committee ATMOSPHERE Working Group	ASSW
9:00 am–8:00 pm	International Arctic Science Committee CRYOSPHERE Working Group	ASSW
9:00 am–8:00 pm	International Arctic Science Committee MARINE Working Group.....	ASSW
9:00 am–8:00 pm	International Arctic Science Committee SOCIAL + HUMAN Working Group	ASSW
9:00 am–8:00 pm	International Arctic Science Committee TERRESTRIAL Working Group	ASSW
Noon–4:00 pm	Arctic Science Family Day.....	Public Event
8:00–10:30 pm	Arctic Cinema & Science	Public Event

Sunday, 13 March

Daylight Savings Time begins at 2:00 am today. Please remember to set your clocks forward one hour.

8:00 am–5:00 pm	Make an Impact Workshop (Day 1)	Side Meeting
9:00 am–5:00 pm	CACCON, a Circum-Arctic Network of Coastal Communities	Side Meeting
9:00 am–noon	Collaboration, Progress and Implementation of the Circumpolar Biodiversity Monitoring Program.....	Side Meeting
9:00 am–12:30 pm	COPERA, Carbon Budget of Ecosystems and Cities and Villages on Permafrost in the Eastern Russian Arctic.....	Side Meeting
9:00 am–5:00 pm	Pacific Arctic Group.....	ASSW
9:00 am–12:30 pm	Second EU-PolarNet General Assembly	Side Meeting
9:00 am–12:30 pm	Symposium: Do We Speak the Same Language of Science?	Public Event
9:00 am–6:00 pm	University of the Arctic Board of Governors.....	ASSW
10:00 am–noon	Next-Generation Ecosystem Experiments (NGEE) Land Surface Models (Arctic Terrestrial)	Side Meeting
Noon–5:00 pm	Communicating Climate Change: In-Depth Workshop (FULL).....	Side Meeting
1:00–4:00 pm	Circumpolar Biodiversity Monitoring Program: Co-leads meeting.....	Side Meeting
1:00–3:00 pm	Interagency Arctic Research Policy Committee.....	Side Meeting
1:30–5:00 pm	Asian Forum for Polar Sciences	Side Meeting
1:30–5:00 pm	International Science Initiative in the Russian Arctic.....	ASSW
1:30–5:00 pm	Second EU-PolarNet General Assembly	Side Meeting
2:00–3:00 pm	Sneak Peek: UAF's Decision Theater North.....	Public Event
3:00–5:00 pm	Multi-disciplinary Drifting Observatory for the Study of Arctic Climate: Town Hall Meeting	Side Meeting
6:00–8:00 pm	External Expert Advisory Board of the EU-PolarNet Project.....	ASSW
6:00–8:30 pm	International Arctic Science Committee ATMOSPHERE Working Group	ASSW

6:00–8:00 pm	International Arctic Science Committee CRYOSPHERE Working Group	ASSW
6:00–8:00 pm	International Arctic Science Committee MARINE Working Group.....	ASSW
6:00–8:00 pm	International Arctic Science Committee SOCIAL + HUMAN Working Group	ASSW
6:00–8:00 pm	International Arctic Science Committee TERRESTRIAL Working Group	ASSW
6:00–8:00 pm	Community Healing and Wellness: Addressing Historical Trauma through Incorporation of Traditional Knowledge and Practices	Public Event
7:00–8:30 pm	International Study of Arctic Change Science Steering Committee	ASSW

Monday, 14 March

8:00 am–5:30 pm	Arctic Council Resilience Workshop (Day 1)	Side Meeting
8:00 am–5:00 pm	Creation of Communal Research Priorities Regarding Pacific Walruses	ASSW
8:00 am–5:00 pm	Make an Impact Workshop (Day 2).....	Side Meeting
8:00 am–6:00 pm	Resilience Workshop (Breakout session)	Side Meeting
9:00 am–noon	The Arctic Domain Awareness Center: Enhancing Operational Security in the Arctic Marine System	Side Meeting
9:00 am–12:30 pm	Early Career Arctic Policy Workshop	ASSW
9:30 am–11:30 am	IARPC Data Collaboration Team Open Town Hall Meeting.....	Side Meeting
9:00 am–5:00 pm	International Arctic Science Committee ATMOSPHERE Working Group	ASSW
9:00 am–5:00 pm	International Arctic Science Committee Council	ASSW
9:00 am–5:00 pm	International Arctic Science Committee CRYOSPHERE Working Group	ASSW
9:00 am–5:00 pm	International Arctic Science Committee MARINE Working Group.....	ASSW
9:00 am–5:00 pm	International Arctic Science Committee SOCIAL + HUMAN Working Group	ASSW
9:00 am–5:00 pm	International Arctic Science Committee TERRESTRIAL Working Group	ASSW
9:00 am–5:00 pm	International Arctic Science Committee Working Group Cross-Cutting Meetings (optional)	ASSW
9:00 am–12:30 pm	International Arctic Systems for Observing the Atmosphere/Arctic Flux Network.....	Side Meeting
9:00 am–5:00 pm	Natural Hazards and Risk Management in the Arctic	Side Meeting
9:00 am–5:00 pm	Poster Session: Reframing Understandings of the North: Placing Social Sciences and Humanities at the Center of Interdisciplinary Arctic Research.....	ASSW
9:00 am–5:00 pm	Reframing Understandings of the North: Placing Social Sciences and Humanities at the Center of Interdisciplinary Arctic Research.....	ASSW
9:00 am–3:00 pm	Sustained Arctic Observing Networks Committee on Observations and Networks	ASSW
9:00 am–6:00 pm	University of the Arctic Board of Governors.....	ASSW
9:00 am–11:30 am	Why DOES the Arctic Matter? Tips and Tools for Effective Communication.....	Side Meeting
Noon–1:00 pm	Fairbanks Chamber Weekly Business Luncheon: Arctic Council Special Meeting with U.S. Senior Arctic Official Julie Gourley	Public Event
Noon–1:00 pm	Geophysical Institute Tour	Public Event
12:30–5:30 pm	IPS Meeting	Side Meeting
1:00–5:00 pm	Poker Flat Research Range Tour	Tour for Conference Attendees
1:00–3:00 pm	Reducing the Incidence of Suicide in Indigenous Groups – Strengths United through Networks (RISING-SUN) Initiative	Side Meeting
1:45–5:00 pm	A New Sharing Space for Community Based Preparedness and Response: The Arctic Adaptation Exchange Portal	Side Meeting
2:00–5:00 pm	Trans-Alaska Pipeline / Permafrost Tunnel Tour (ID required)	Tour for Conference Attendees
2:00–3:00 pm	Sneak Peek: UAF's Decision Theater North.....	Public Event
3:00–6:00 pm	Arctic Air Pollution: A Collaborative Framework for Natural and Social Science	ASSW
5:00–8:00 pm	Art Show: Arctic Perspectives.....	Public Event
5:00–7:00 pm	One Arctic Student Art Show	Public Event
5:00–8:00 pm	Planning for the Year of Polar Prediction	Side Meeting
6:00–8:00 pm	Arctic Futures Initiative Town Hall meeting.....	Side Meeting
6:00–10:00 pm	Visualizing the Relationships that Shape Our Work	Public Event
6:30–8:30 pm	Polar Data Management: A Rough Guide for Researchers.....	Side Meeting

Tuesday, 15 March

8:00 am–6:00 pm	Arctic Council Resilience Workshop (Day 2).....	Side Meeting
8:00 am–6:00 pm	International Arctic Assembly Day (see full schedule on pages 8–9).....	Public Event
8:00 am–6:00 pm	International Permafrost Association: Executive Committee Meeting.....	Side Meeting
8:00 am–5:00 pm	Make an Impact Workshop (Day 3).....	Side Meeting
8:00 am–6:00 pm	Resilience Workshop (Breakout session)	Side Meeting
8:30 am–5:00 pm	International Arctic Assembly Day	Public Event
9:00 am–6:00 pm	University of the Arctic Board of Governors.....	ASSW
9:30 am–12:30 pm	Arctic Museum Collections: Documenting and Understanding Changes in Biological and Cultural Diversity through Time and Space.....	Public Event
10:30 am–12:30 pm	A New Sharing Space for Community Based Preparedness and Response: The Arctic Adaptation Exchange Portal	Side Meeting
Noon–5:00 pm	Arctic Council Senior Arctic Officials	Side Meeting
1:30–5:30 pm	Adapting to Loss of Sea Ice: Managing Land-Based Walrus Haul-Outs.....	Side Meeting
2:00–4:00 pm	Arctic Research Consortium of the U.S. (ARCUS) Open House.....	Side Meeting
5:00–6:00 pm	AOS Organizing Committee and Co-Lead meeting.....	AOS
5:00–6:00 pm	Arctic Observing Summit Organizing Committee and Co-Lead Meeting	ASSW
5:00–6:00 pm	Third Trilateral EU-US-Canada Arctic Meeting of the Transatlantic Ocean Research Alliance.....	Side Meeting
6:00–10:00 pm	International Arctic Assembly Banquet.....	Public Event

Wednesday, 16 March

7:15 am–8:30 am	AOS Organizing Committee and Co-Lead meeting.....	AOS
8:30 am–noon	Cold Climate Housing Center / UAF Large Animal Research Station Tour	Tour for Conference Attendees
8:45 am–12:15 pm	Arctic Observing Summit Plenaries.....	AOS
9:00 am–12:30 pm	Adapting to Loss of Sea Ice: Managing Land-Based Walrus Haul-Outs and Disturbances to Walruses in Russia.....	Side Meeting
9:00 am–5:00 pm	Arctic Council Senior Arctic Officials	Side Meeting
9:00 am–5:00 pm	Polar Knowledge Canada: Board of Directors Meeting.....	Side Meeting
9:00 am–12:30 pm	Polar Research Board.....	Side Meeting
9:00 am–12:30 pm	U.S. Arctic Research Commission.....	Side Meeting
10:00 am–8:00 pm	A Year in the Life of a Birch Tree	Public Event
11:00 am–12:15 pm	AOS Theme 1: International and National Strategies for Sustained Support of Long-Term Arctic Observing.....	AOS
11:00 am–12:15 pm	AOS Theme 2: Technology and Innovation for Sustained Arctic Observations	AOS
11:00 am–12:15 pm	AOS Theme 3: Contributions of the Private Sector and Industry–Sustained Arctic Observations	AOS
11:00 am–12:15 pm	AOS Theme 4: Actor and Stakeholder Engagement and Needs in Sustained Arctic Observations	AOS
11:00 am–12:15 pm	AOS Theme 5: Arctic Observations in the Context of Global Observing Initiatives.....	AOS
11:00 am–12:15 pm	AOS Theme 6: Interfacing Indigenous Knowledge, Community-Based Monitoring and Scientific Methods for Sustained Arctic Observations	AOS
Noon–1:00 pm	Geophysical Institute Tour	Public Event
12:30–5:00 pm	Alaska Ocean Observing System: Spring Board Meeting	Side Meeting
1:30–5:00 pm	Greenland Research Policy and Priorities: Greenlandic PhD Projects	Side Meeting
1:30–5:00 pm	Joint Meeting: Representatives of the USARC, PRB, EPB, PKC, AFoPs	Side Meeting
1:30–5:30 pm	Sustaining Arctic Observing Networks: Board meeting.....	ASSW
1:45–3:00 pm	Arctic Observing Summit Plenaries.....	AOS
2:00–3:00 pm	Sneak Peek: UAF's Decision Theater North.....	Public Event
2:00–5:00 pm	Trans-Alaska Pipeline / Permafrost Tunnel Tour (ID required)	Tour for Conference Attendees
3:30–5:00 pm	AOS: Cross-theme breakout sessions 4A, 4B, 4C, 4D, 4E, 4F	AOS
5:00–6:00 pm	Open House: Ocean Acidification Research Center.....	Public Event
5:30–8:00 pm	AOS Poster Session 1.....	AOS
6:00–8:00 pm	Family Game Night.....	Public Event

Thursday, 17 March

9:00 am–5:00 pm	Arctic Council Senior Arctic Officials	Side Meeting
9:00 am–5:00 pm	Polar Knowledge Canada: Board of Directors Meeting.....	Side Meeting
9:00 am–5:00 pm	Polar Research Board.....	Side Meeting
9:30–11:30 am	Arctic Remote Energy Networks Academy (ARENA) Forum.....	Public Event
–1:00 pm	Energy Technology Facility Tour	Public Event
1:30–5:30 pm	Sustaining Arctic Observing Networks: Board Meeting.....	ASSW
2:00–3:00 pm	Energy Technology Facility Tour	Public Event
4:00–5:00 pm	Energy Technology Facility Tour	Public Event
5:30–8:00 pm	AOS Poster Session 2	AOS
6:00–8:00 pm	Barrow Atqasuk Science Advisors Meeting.....	Side Meeting
6:00–8:00 pm	World Wildlife Fund U.S. Arctic Field Program Marine Protection Discussion	Side Meeting
7:00–8:00 pm	Coastal bathtub rings: What Ancient Shorelines Tell Us About Future Sea Level Rise — A Science for Alaska Lecture with Julie Brigham-Grette	Public Event

Friday, 18 March

7:15 am–8:30 am	Organizing Committee and Co-Lead meeting.....	AOS
8:45 am–10:45 am	Arctic Observing Summit Plenaries and Synthesis	AOS
10:45 am–1:00 pm	Arctic Observing Summit Panel Discussion and Conclusion.....	AOS
Noon–1:00 pm	Geophysical Institute Tour	Public Event
2:30–3:30 pm	Post-Summit Organizing Committee Meeting	AOS

Saturday, 19 March

10:00 am	Beaver Sports Spring Equinox 5K Run/Walk	Public Event
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Transportation

General shuttle schedule

Day	Route	Time
FRI 11 March	Hotels to UA Museum	5:30–8:30 pm
SAT 12 March	Hotels to UAF	7:00–9:30 am
	UAF to Hotels	5:00–8:30 pm
SUN 13 March	Hotels to UAF	7:00–9:30 am
	UAF to Hotels	5:00–8:30 pm
MON 14 March	Hotels to UAF	7:00–9:30 am
	UAF to Hotels	5:00–8:30 pm
TUE 15 March	Hotels to UAF	7:00–9:30 am
	UAF to Hotels; Carlson Center after 5:45 pm	4:30–10:00 pm
	UAF to Carlson Center; Carlson Center to Hotels	5:45–10:00 pm
	Carlson Center – Hotels	8:30–10:00 pm
WED 16 March	Hotels to UAF	7:00–9:30 am
	UAF to Hotels	5:00–8:30 pm
THU 17 March	Hotels to UAF	7:00–9:30 am
	UAF to Hotels	5:00–8:30 pm
FRI 18 March	Hotels to UAF	7:00–9:30 am
	UAF to Hotels	12:30–5:00 pm

Morning shuttle timetables

Hampton / Holiday Inn / Wedgewood to UAF			
Hampton Inn	Holiday Inn Express	Wedgewood	UAF
7:00 am	7:10 am	7:20 am	7:45 am
7:30 am	7:40 am	7:50 am	8:15 am
8:15 am	8:25 am	8:35 am	9:00 am
8:45 am	8:55 am	9:05 am	9:30 am
9:30 am	9:40 am	9:50 am	10:15 am

Sophie Station / Pike's / La Quinta to UAF

Sophie Station	Pike's	La Quinta	UAF
7:00 am	7:10 am	7:20 am	7:30 am
7:30 am	7:40 am	7:50 am	8:00 am
7:45 am	7:55 am	8:05 am	8:15 am
8:15 am	8:25 am	8:35 am	8:45 am
8:30 am	8:40 am	8:50 am	9:00 am
9:00 am	9:10 am	9:20 am	9:30 am
9:15 am	9:25 am	9:35 am	9:45 am

Springhill / Westmark to UAF

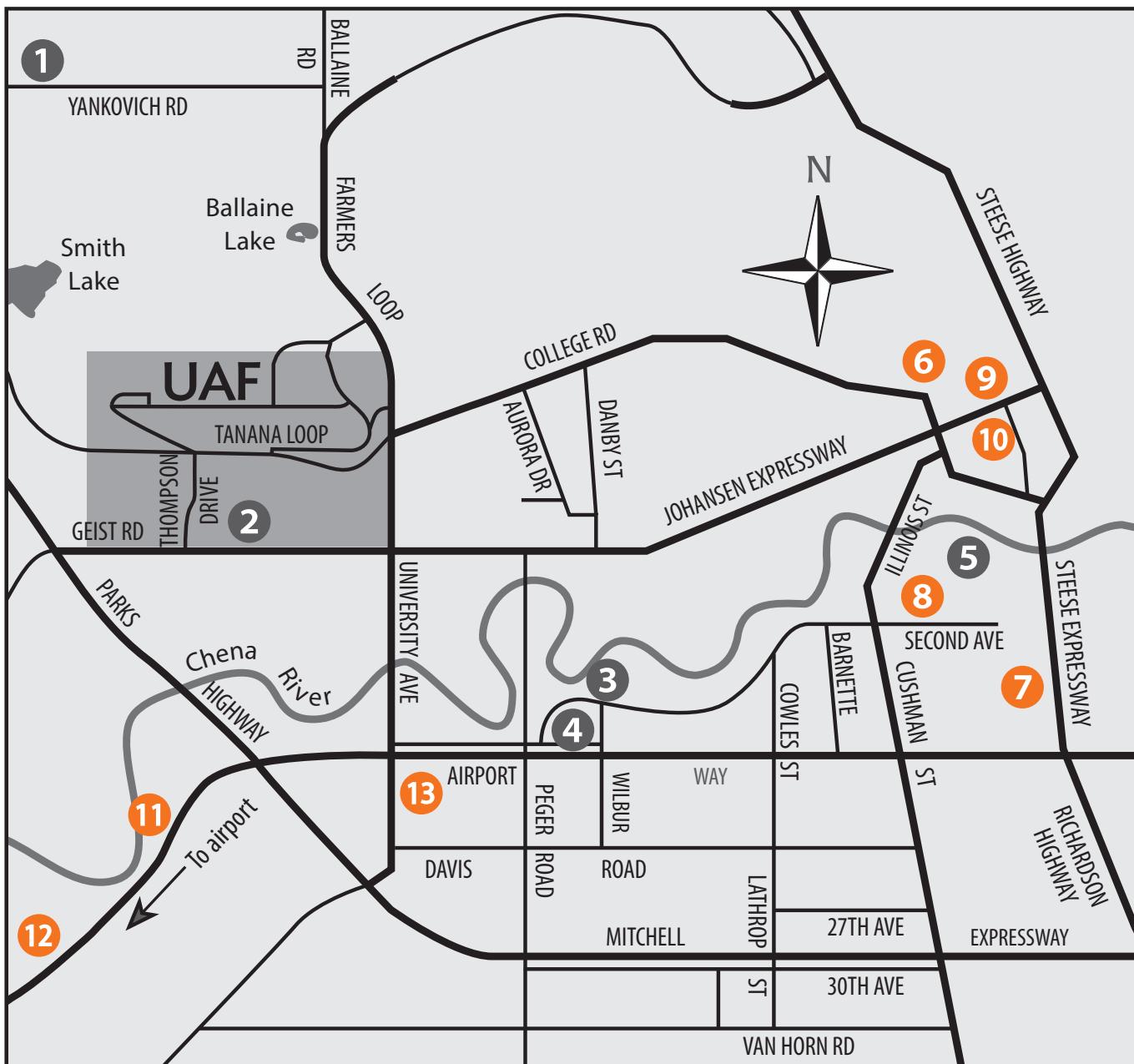
Springhill Suites	Westmark	UAF
7:00 am	7:10 am	7:30 am
7:30 am	7:40 am	8:00 am
8:00 am	8:10 am	8:30 am
8:30 am	8:40 am	9:00 am
9:00 am	9:10 am	9:30 am
9:30 am	9:40 am	10:00 am

Map: Off Campus Locations

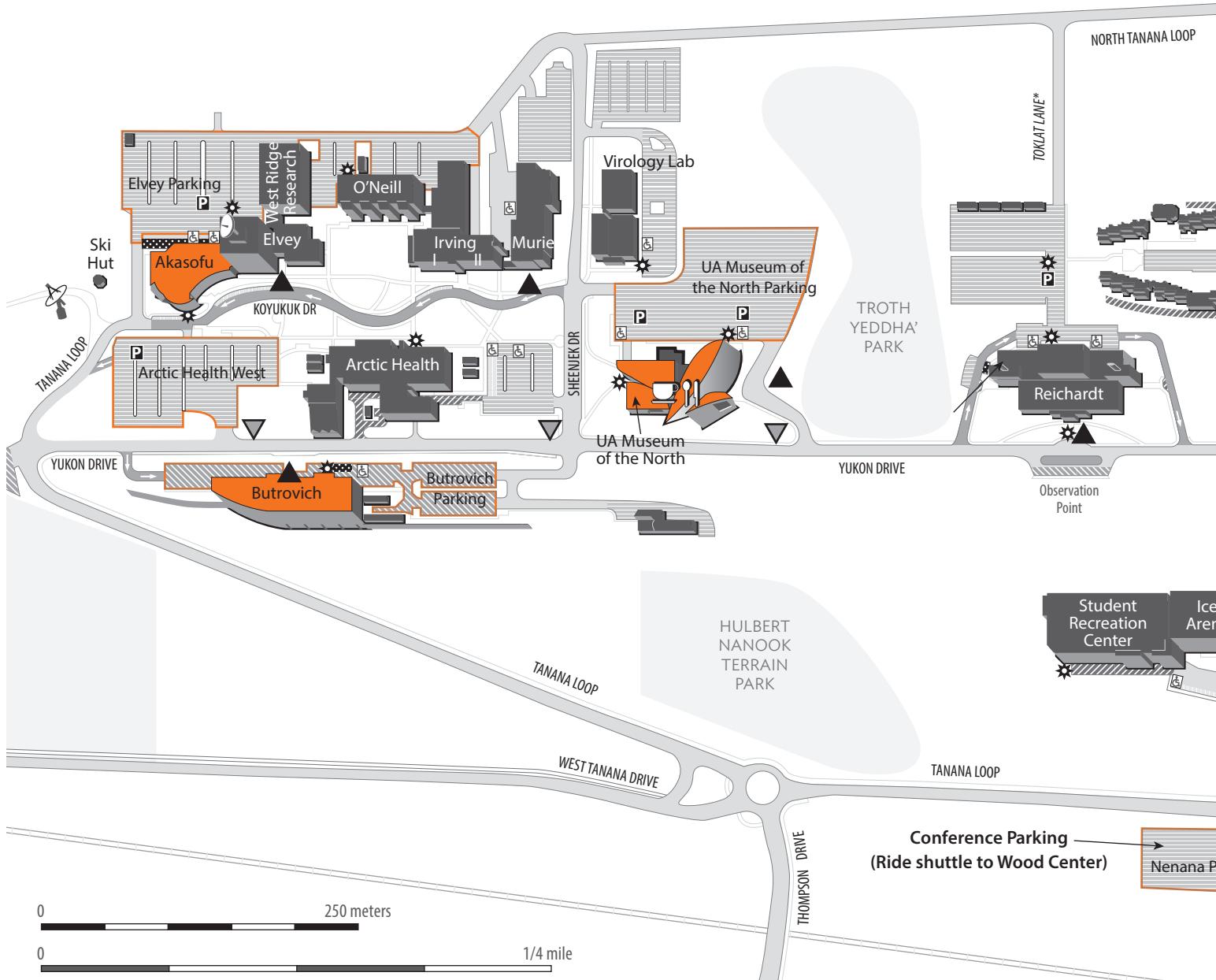
- 1** Large Animal Research Station
- 2** Cold Climate Housing Research Center
- 3** Carlson Center
- 4** Pioneer Park
- 5** Morris Thompson Cultural & Visitor Center

Hotels on Conference Shuttle Route

- 6** Wedgewood Resort
- 7** Westmark
- 8** Marriott Springhill Suites
- 9** Hampton Inn
- 10** Holiday Inn Express
- 11** Pike's Waterfront Lodge
- 12** Alpine / La Quinta
- 13** Sophie Station



Map: UAF Campus



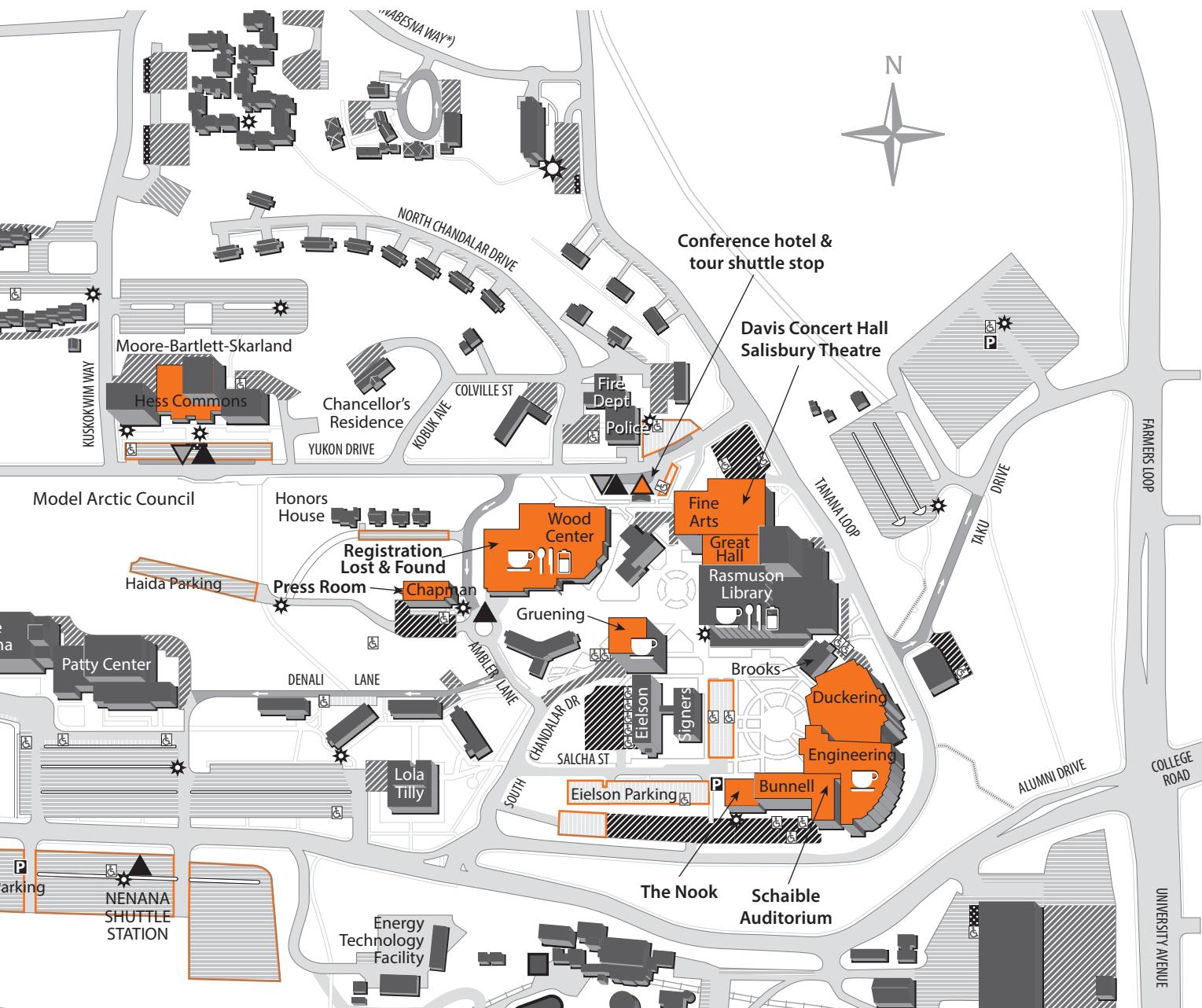
Key

- Emergency phones
- One-way street
- Two-way street
- Foot path / trail

- Conference facilities
- Other UAF facilities
- Coffee
- Food
- Device recharging station

Transportation

- Conference hotel & tour shuttle stop
- UAF campus shuttle stops
- Borough bus stops (MACS)



Parking

- Best parking choices (8 a.m. – 5 p.m., M – F)
- UAF decal or purchased permit
- Visitors only, metered (8 a.m. – 5 p.m., M – F)
- Visitors and UAF-affiliated, metered (8 a.m. – 5 p.m., M – F)

- Visitors and UAF decal
- Gold decal only (7 a.m. – 5 p.m., M – F)
- Restricted parking/ No parking
- Parking permit kiosk
- Disabled parking

Disabled parking permits are available through the Alaska Division of Motor Vehicles. For temporary campus disabled permits contact UAF Parking Services and present medical documentation.

For up-to-date parking information visit www.uaf.edu/parking/ or call 474-7275.



The sun rises and sets above the Alaska Range south of Fairbanks in this composite image taken from the Akasofu Building on the UAF campus on 21 December, the day of the winter solstice. (UAF photo by Todd Paris)



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UAF is a tobacco-free campus. March 2016

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