

Welcoming the Arctic Council to Alaska, the Heart of America's Arctic

ARCTIC INTERCHANGE - FAIRBANKS MAY 8-12, 2017

NORTH BY NORTH - ANCHORAGE MAY 11-14, 2017

akarctichost.org



#WOTA17, #AKArctic, #nxnfestival

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# Alaska's Promise

### From Governor Bill Walker

Alaska is commemorating an important milestone this year, our 150th anniversary as the heart of America's Arctic. The world is slowly coming to grips in understanding the significance of the Arctic, and Alaska's role in the Arctic, as a region of peace and partnership, of emerging importance with the potential for considerable impact on global climate, potential for new discovery, new shipping routes and colossal potential for economic and resource development.

Because of our crucial position in the Arctic, we feel the stress and promise of significant changes in our region, contribute to a global understanding and awareness of the issues here, and provide a human face to concerns that seem distant and removed from our southern neighbors.

More than that, Alaskans care about the challenges facing our environment and our communities, and bear the risk, responsibility and reward as stewards. As a result, we believe that it is a matter of principle to maintain open space and open minds to constructive dialogue at the international, national and sub-national levels.

While decision-making often takes place elsewhere, Alaskans are determined to draft our own destiny. One way that we are working to accomplish this goal is through the work of Alaska's Arctic Council Host Committee. The Host Committee has been so important in showcasing Northern hospitality and deepening the awareness of Alaska's bounty and beauty to those visiting from around the world.

I am excited about the upcoming Week of the Arctic and invite Alaskans to show up in force to continue to welcome our visiting dignitaries and convey these important messages.

I am even more excited to announce that the work that has gone into these two years doesn't stop here—I have ordered the transition of the Host Committee to the Alaska Arctic Coordinating Committee, and charged the Institute of the North to remain as Secretariat of this body.

More details will be provided during the Week of the Arctic, but this nimble body of named advisors and strategic partners will continue to advance the sustainable development of the Arctic region during the coming years. Join us for the Week of the Arctic, help us welcome visiting Arctic Council delegates, and remember that Alaska is the heart of America's Arctic.



# **Northern Diplomacy and Local Governance**

# **From Mayors**

- Ethan Berkowitz, Municipality of Anchorage
- Karl Kassel, Fairbanks North Star Borough
- Harry Brower, Jr., North Slope Borough

Alaska is the only Arctic region in the United States. From the tundra to the temperate forests of Southeast, and along rivers, ridgelines and coastlines, no other state is as beautiful, as vast, or as varied as Alaska. As Northerners, we Alaskans face unique challenges including a rapidly transforming economy, a remoteness and isolation that creates an urgent need for cooperation and collaboration between communities, and a climate that is changing at twice the rate of other regions of the world. These circumstances impact our economies, our budgets, our infrastructure and our cultures. As mayors, we join together with our colleagues from around the world to build on the work of others and to amplify our own efforts to strengthen and create community resilience and make sure our constituencies are prepared to overcome adversity and take advantage of opportunity.

Local government in the circumpolar region has a special role—to deliver essential public services; convey the priorities of residents at the most fundamental level to state, national and international decision-makers; and work to ensure that the community itself is resilient and sustainable in the long term, a place where today's and future generations can live, work and play.

Together, we welcome the delegates and attendees to this celebration of a successful U.S. chairmanship of the Arctic Council and look forward to the next steps under Finland's chairmanship.

# **Celebrating our Shared Arctic**

### From Conference Co-Chairs

- Larry Hinzman, Vice Chancellor, Research, UAF
- Mike Sfraga, Wilson Center Polar Initiative

We are very pleased to welcome you to Fairbanks and the University of Alaska Fairbanks for the 2017 Week of the Arctic and Arctic Interchange.

We welcome ministers, Senior Arctic Officials, Permanent Participants and Observers to the Arctic Council to celebrate the 20th anniversary of the Arctic Council and the transition of the chair from the United States to Finland.

We welcome educators from around the world who will participate in the Association of International Education Administrators. We welcome your participation in the Arctic Broadband Forum. We welcome your engagement in the wide array of workshops that have been convened to appeal to a range of interests.

These meetings are all intended to advance Arctic science, technology, policy and stakeholder issues. Convening these meetings here, at one time, allows for free and open interaction between scientists, policymakers, journalists and the public — all of whom are concerned with promoting and facilitating understanding, 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, 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, reflect upon the unique landscape and people of the Arctic, and hold warm memories of springtime in Alaska.



# Welcome to Alaska, the Heart of America's Arctic

# Host Committee Sponsors



Governor Bill Walker convened the Alaska Arctic Council Host Committee during the U.S. Chairmanship so that Alaskans can effectively welcome visiting delegations, inform Alaskans of Arctic Council activities and link decisionmakers to the realities, richness and responsibility of Alaska's Arctic.

At no time in history has Alaska's Arctic been as prominent in peoples' minds as it is today. Communities and peoples, businesses, and local, state, regional and national governments around the circumpolar North are faced with increasing change and challenges, as well as opportunities. The Host Committee is composed of Alaskans who well understand change, but who also have a strong commitment to improving the quality of life of Alaskans.

The two-year U.S. Chairmanship of the Arctic Council (2015-2017) has been an exciting time for Alaska to be at the forefront of American foreign policy. Representatives from more than fifteen nations have met in Alaska thus far, including a U.S. Presidential visit in August 2015. The Alaska Arctic Council Host Committee has been able to coordinate a wide variety of activities that elevate Alaska perspectives and priorities during this time.

Especially important during the U.S. Chairmanship is the need to share the reality of lives and livelihoods in Alaska with visiting international delegations and a broader domestic audience, providing a rich tapestry of challenge and opportunity, economic and community development. The Week of the Arctic is an excellent way to educate and engage Alaskans and communicate to those outside Alaska the stories of those who live here.

The Arctic Council Ministerial Meeting in Fairbanks, May 2017, provides an amazing opportunity to showcase the city and state. Alaska can highlight that it remains an Arctic state even past the end of the U.S. Chairmanship, including as a partner with incoming Chair Finland and other Arctic countries.

We are glad that you have joined us in Fairbanks, Anchorage or in any of the other locations around Alaska where we will be celebrating the Week of the Arctic, sharing stories and best practices, and cultivating relationships that will last well into future chairmanships of the Arctic Council. It is Alaska's intent to stay at the forefront of Arctic business and policy, community and the environment.







































# **Arctic Interchange (Fairbanks)**

Alaska's science, policy and business community have come together to celebrate the successes of the U.S. Chairmanship, toast the future of the Finnish Chairmanship, and recognize all the hard work still to do in meeting high goals of environmental protection, sustainable development, inclusion of indigenous peoples and international cooperation.

Alaska is the heart of America's Arctic, and Fairbanks the golden heart of Alaska. Arctic Interchange is hosted in a community that serves as a critical nexus of outstanding university research and science, indigenous leadership, active

economic development and innovative policy. Alaska's contributions to and priorities for the Arctic region will be highlighted throughout the Arctic Interchange, and participants can expect to learn more about the University of Alaska Fairbanks—America's Arctic university and Alaska's research university.

Fairbanks itself acts as one of Alaska's "gateways" to the Arctic, where local business and tourism drive opportunity and facilitate Northern connections. Events will emphasize Alaska expertise that is deep and diverse as it relates to social and physical sciences, cold climate design, remote health and energy delivery, engineering and construction, oceans and fisheries science and management, and climate science.

# **Arctic Interchange Sponsors**



# **Arctic Interchange: Program of Events**

# Monday, May 8

8 a.m.-5 p.m.

# Association of International Education Administrators — Thematic Forum

### Open • #109 A and B, Butrovich Building, West Ridge

U.S. as an Arctic Nation: Opportunities for collaboration in internationalization

Hosted by UAF, Dartmouth College, and the Association of International Education Administrators

The primary goal of this event is to establish awareness and generate interest in the Arctic and Arctic issues among international educators and university leaders. As the Arctic is largely unrepresented in U.S. international education, this forum is designed to present the Arctic as a destination for student mobility, showcase opportunities for education and research, and encourage engagement of U.S. institutions as current and potential University of the Arctic (UArctic) members.

Supported by the Association of International Education Administrators, and led by educators at the University of Alaska Fairbanks and Dartmouth College, program leads invite attendees to participate in discussion and planning regarding circumpolar collaboration in education and research, and to discover the benefits of membership in the 170-member UArctic circumpolar network.

### 8 a.m.-5 p.m. Arctic Broadband Forum

### Open • Wood Center ballroom, UAF Fairbanks campus

The Arctic Broadband Forum will bring together educators, researchers and industry from across the world to discuss the challenges, successes and potential of telecommunications and broadband deployment in the Arctic. Specific emphasis will be placed on the role of broadband and digital technologies on the cultural preservation and self-determination of indigenous populations throughout the Arctic. Visit www.alaska.edu/tabf2017/ for the complete program.

# 8 a.m.-5 p.m. Arctic Economic Council

# Closed ullet 501 Akasofu Building, West Ridge, UAF Fairbanks campus

The Arctic Economic Council Annual Meeting is an opportunity for the AEC representatives and working groups to come together and strategize, developing the next steps to successfully promote responsible development in the place we call home—the Arctic.

The AEC annual meeting will include an opening ceremony, two full days of various workshops throughout the afternoon and an evening reception.

# 3-5 p.m.

# Workshop: Community Healing and Wellness

### Public • Schaible Auditorium, UAF Fairbanks campus

Includes research and practitioner presentations on current work to address intergenerational trauma and associated social outcomes through integration of indigenous knowledge and cultural practices. Presentations, followed by discussion. Speakers:

- **Evon Peter**, Vice Chancellor for Rural, Community and Native Education, UAF
- Stacy Rasmus, Research Associate Professor, Center for Alaska Native Health Research, UAF
- Dr. Roberto Delgado Office for Research on Disparities & Global Mental Health at National Institute of Mental Health
- Roberta Moto Wellness Program Manager at Maniilaq Association
- Billy Charles Research Professional, Center for Alaska Native Health Research, UAF & community member of Emmonak. AK

### 5-7 p.m.

# Conservation of Arctic Flora and Fauna (CAFF) Reception

By Invitation Only • Morris Thompson Cultural and Visitors Center, 101 Dunkel St., Fairbanks

5:30 - 7:30 p.m.

# Networking Reception: AIEA Thematic Forum and Arctic Broadband Forum 2017

By Invitation Only • Wood Center ballroom, UAF Fairbanks campus

### 6-8 p.m.

# Arctic Seas in a Time of Change: Status, Trends and Implications Within and Beyond the Arctic

### Public • Blue Loon, 2999 Parks Highway

Arctic researchers, policymakers and community and cultural leaders will discuss key themes of Arctic interest during armchair conversations. Invited to attend are community members, interested Alaskans and visiting delegations. These informal sessions hosted during the Week of the Arctic's Arctic Interchange offer meaningful insight into priority issues of the Arctic, highlight university expertise, and engage community members.

# Tuesday, May 9

# 8 a.m-5 p.m. Arctic Economic Council

# Closed • 501 Akasofu Building, West Ridge, UAF Fairbanks campus

The Arctic Economic Council Annual Meeting is an opportunity for the AEC representatives and working groups to come together and strategize, developing the next steps to successfully promote responsible development in the place we call home — the Arctic. The AEC annual meeting will include an opening ceremony, two full days of various workshops throughout the afternoon and an evening reception.

### 8 a.m.-5 p.m. I AM INUIT — Art Exhibit

### Open • UAF Art Gallery

About the Exhibit

I AM INUIT is a travelling exhibit that originated from a collaboration between the Inuit Circumpolar Council (ICC) — Alaska and the Anchorage Museum. The project seeks to connect the world with Alaskan Inuit (Inupiat, Yup'ik, Cup'ik and St. Lawrence Island Yupik) and the Arctic, through common humanity.

# 8 a.m.-5 p.m. International Arctic Assembly

### Open • Davis Concert Hall, UAF Fairbanks campus

The International Arctic Assembly will demonstrate an innovative approach to multidisciplinary, cross-sectoral dialog that will feature local, national and international speakers from business, policy and research. Plenary panel discussions will focus on Arctic policy, Alaska's unique role in informing and influencing state, national and international policy, scientific research, indigenous leadership and culture, and social-economic development.

This will be a great opportunity to explore a broad range of perspectives and objectives related to Arctic research. International discussions will help improve understandings of the role of science in addressing gaps, in enabling understanding of the Arctic system, and in implementing policy that will benefit all nations. Detailed program on page 12.

### 8 a.m.-5 p.m. Arctic Broadband Forum

### Open • Wood Center ballroom, UAF Fairbanks campus

The Arctic Broadband Forum will bring together educators, researchers and industry from across the world to discuss the challenges, successes and potential of telecommunications and broadband deployment in the Arctic. Specific emphasis will be placed on the role of broadband and digital technologies on the cultural preservation and self-determination of indigenous populations throughout the Arctic. Visit the www.alaska.edu/tabf2017/ for the program..

### 11:30 a.m.-1 p.m.

# Lessons from Norway: Developing a Dynamic Economy in the Far North — Chamber of Commerce Luncheon

# Open • See akarctichost.org for ticket information. • Raven Landing, 1222 Cowles St.

Greater Fairbanks Chamber of Commerce Weekly Business Luncheon. Doors open and networking begins at 11:30 a.m.; program begins promptly at noon.

Please help us welcome our special guests from Norway, who will be discussing innovation and economic development in the Far North. They will share best practices from Norway and emphasize opportunities for developing a dynamic economy in the Far North, focusing on possibilities for Interior Alaska.

### 5:30-7:30 p.m.

### Alaska's Arctic: Lives and Livelihoods Reception

# Reserve your ticket at akarctichost.org • UA Museum of the North, West Ridge, UAF Fairbanks campus

Held in honor of the Arctic Slope Regional Corp. and its contributions to the Arctic, its peoples and prosperity. ASRC has long been a strategic partner of the Institute of the North and continues to show great leadership in the Arctic region, including in recent years to help convene — in collaboration with other regional rightsholders — the Arctic Iñupiat Offshore and Voice of the Arctic Iñupiat.

ASRC has supported the leadership of **Tara Sweeney** as the Chair of the Arctic Economic Council during that body's foundational years. We will see the transition from her leadership to Tero Vauraste of Finland, the incoming chair of the Arctic Economic Council.

### 7-9 p.m.

# "We Breathe Again" — Documentary Film Screening

# Reserve your ticket at akarctichost.org • Goldstream Stadium 16 and IMAX Theater, 1855 Airport Way, Fairbanks

In a landscape as dramatic as its stories, "We Breathe Again" intimately explores the lives of four Alaska Native people, each confronting the impacts of intergenerational trauma and suicide. A co-production of UAF, Native Movement and Crawl Walk Run.

# Wednesday, May 10

### 8-11:45 a.m.

### **Arctic Council Showcase**

### Open • Davis Concert Hall, UAF Fairbanks campus

Speakers will present projects delivered during the U.S. Chairmanship, with Alaska leaders interpreting the implications for and importance to the state. Moderated by **Drue Pearce**, **Karen Perdue** and **Craig Fleener**, in cooperation with and input from Alaska community, business, policy and traditional leaders. Detailed program on page 14.

# 8 a.m.-5 p.m. I AM INUIT — Art Exhibit

### Open • UAF Art Gallery

Lunch Reception, with welcome notes and special guests

About the Exhibit

I AM INUIT is a travelling exhibit that originated from a collaboration between the Inuit Circumpolar Council — Alaska and the Anchorage Museum. The project seeks to connect the world with Alaskan Inuit (Inupiat, Yup'ik, Cup'ik and St. Lawrence Island Yupik) and the Arctic, through common humanity.

### 9 a.m.-3:30 p.m.

# Community-Based Monitoring Experience Exchange Workshop

# Closed • Akasofu Building 501, West Ridge, UAF Fairbanks campus

This is a workshop for those involved in community-based monitoring who wish to build this community of practice and increase the effectiveness of CBM in decision-making. The workshop will introduce participants to INTAROS and other relevant initiatives that are supporting development of CBM networks. Presentations and breakout groups will allow participants to exchange experiences and discuss the next generation of CBMs in the Arctic.

The workshop is hosted by the INTAROS: Integrated Arctic Observing System with collaboration from UAF, the Yukon River Inter-Tribal Watershed Council (YRITWC) and the Exchange for Local Observations and Knowledge of the Arctic (ELOKA).

# 9:30 a.m.-2:30 p.m. The Northern Edge of Science — Seminar

### Open • Wood Center ballroom, UAF Fairbanks campus

The purpose of this side event organized by the University of Oslo is to give some samples of current research of a general nature but with a special connection to the Arctic. These submissions are all, in different ways, narratives of the relation between science and policy.

#### 11 a.m.-noon

# VAWS Webinar Series: Finland's Proposed Meteorological Cooperation Under the Arctic Council

# Open • Akasofu Building 401, West Ridge, UAF Fairbanks campus

Virtual Alaska Weather Symposium (VAWS) Webinar Series

Speaker: **Juhani Damski**, Director-General of the Finnish Meteorological Institute

Finland's priorities during its Chairmanship of the Arctic Council are: Environmental Protection, Connectivity, Meteorology, and Education.

# Noon-1 p.m. I AM INUIT - Reception

### Open • UAF Art Gallery

Reception with selection of light appetizers and beverages Join us for an open reception in the UAF art gallery, with welcome notes and special guests:

- James Stotts, ICC Executive Council Vice Chair, ICC Alaska President
- Brian Adams, I AM INUIT project photographer
- Katherine "Kate" Kokeok, I AM INUIT project participant

# 1:30-5 p.m.

# **Arctic Highlights Forum**

# Open • Davis Concert Hall, UAF Fairbanks campus

Speakers will present updates on activities that occurred between 2015 and 2017, related to but separate from official Arctic Council efforts. Alaska leaders will act as moderators, interpreting the implications for and importance to the state. Moderators include **Brian Rogers**, **Veronica Slajer** and **Mead Treadwell**, in cooperation with and input from Alaska community, business, policy and traditional leaders. More details on page 14.

### 2-4 p.m.

# Perspectives in Circumpolar Reindeer Production

# Open • Wood Center, Rooms C & D, UAF Fairbanks campus

A panel discussion with participants from Norway, Northwestern and Interior Alaska is scheduled followed by a reception where Alaskan reindeer meat will be served.

### 3:30-7:30 p.m.

# Engaging Community-Based Monitoring in Decision-Making and Assessment: A Dialog and Reception

# Open • Globe Room, Elvey Building, West Ridge, UAF Fairbanks campus

The afternoon dialog builds on the preceding practitioner's workshop on community-based monitoring and is an opportunity for community members, scientists and decision-makers to discuss the next generation of community-based monitoring in the Arctic. A summary of the preceding workshop's discussion will also be provided. An open networking reception will immediately follow the event in the Akasofu Building lobby.

### 4:30-8:30 p.m.

# Fairbanks Community Celebration of the Arctic — Downtown Fairbanks

# Public • Various locations • ExploreFairbanks.com/events/arctic-celebration

The Fairbanks community celebrates all things Arctic. These four hours of activities feature local businesses that specialize in the Arctic and Arctic-related products and gifts, children's activities, Alaska Native cultural events, a lecture on the Arctic, food trucks, and an Arctic Crawl, featuring Northern-themed adult beverages. As the United States' northernmost city with air, rail and road access, Fairbanks serves as the hub for Alaska's Interior and Arctic. Fairbanks-based civic organizations and corporations are coordinating and hosting this event.

### 5:30-7:30 p.m.

# Arctic Domain Awareness Center Annual Student Research – Poster Session

# Public • Akasofu Building lobby, West Ridge, UAF Fairbanks campus

The inaugural ADAC Annual Student Research Symposium provides a professional forum for DHS-funded ADAC fellows to present on the progress of their ADAC-related research projects.

# Evening

# **Arctic Council 20th Anniversary Reception**

Closed • Morris Thompson Cultural & Visitors Center • 101 Dunkel St.

### 7-8 p.m.

# Lessons from Iceland: How to Reinvent an Economy — Community Talk

# Public • 302 Cushman, 2nd floor of the Worthington Building (above the Children's Museum)

Presentation by **Halla Hrund Logadóttir**, a Louis Bacon Environmental Leadership Fellow at Harvard Kennedy School and the former Director of Reykjavik University's School of Energy Moderated by **Gwen Holdmann**, Alaska Center for Energy and Power, UAF

Alaska is in the midst of an economic downturn that has highlighted the state's reliance on a limited number of industries. Iceland, with a population smaller than Anchorage, is an inspiring case study in how a small, remote nation with limited domestic resources or wealth can create a sustainable economy based on developing its local energy resources. Once one of the poorest countries in Europe, Iceland has developed into one of the highest income per capita countries in the world, and it continues to reinvent itself as it recovers from the near-collapse of its economy in 2008. Today, Iceland's economy is booming stronger than ever, with growth in numerous high-paying industry sectors, a robust small business sector, and a growing agricultural industry that produces 45 percent of the food consumed in Iceland domestically. Join us to learn about Iceland's journey as we hear perspectives from a senior member of the Iceland energy sector, followed by an open discussion with Fairbanks community leadership about what lessons Alaska can learn from Iceland's experience.

# **Thursday, May 11**

8 a.m.-5 p.m.

Arctic 2030: Projecting Challenges Facing Arctic Maritime Operators — Workshop

# By Invitation Only • Globe Room and Auditorium, Elvey Building, West Ridge, UAF Fairbanks campus

Jointly hosted by the Arctic Domain Awareness Center (ADAC) and the U.S. Coast Guard HQ (HQ USCG) Future Concepts Division, this workshop will attempt to project the challenges facing the Arctic Maritime Operator community in the Year 2030

in order to identify gaps and shortfalls that can orient the United States Department of Homeland Security, HQ USCG, ADAC and others and help inform strategy, policy and research.

# 8:30 a.m.-12:30 p.m. Arctic Mayors' Roundtable

# Open • #109, Butrovich Building, West Ridge, UAF Fairbanks campus

Global Goes Local — Northern Diplomacy and Local Governance Featuring mayors from large municipalities in all Arctic eight nations, this roundtable discussion will highlight the role of local government in responding to Arctic challenge and opportunity. Work sessions will focus on climate change, economic development, capacity building and service delivery.

- Mayor Ethan Berkowitz, Municipality of Anchorage
- Mayor Karl Kassel, Fairbanks North Star Borough
- Mayor Esko Lotvonen, City of Rovaniemi
- Mayor Eiríkur Björn Björgvinsson, City of Akureyri
- Mayor Richard Beneville, City of Nome
- Mayor Ida Maria Pinnerød, Bodø Kommune
- Mayor Kristin Røymo, Tromsø Kommune
- Mayor Harry Brower, Jr., North Slope Borough
- Mayor Madeleine Redfern, City of Igaluit
- Mayor Frank Kelty, City of Unalaska
- Mayor Kudryashov Igor Vladislavovich, City of Tiksi, Head of Bulunskiy District

### 9 a.m.-noon

# One Health Concerns in a Changing Arctic — Workshop

# By Invitation Only • Hess Recreational Center, MBS Complex, UAF Fairbanks campus

Changes in climate, economics and policy have altered the availability and safety of subsistence food sources and have promoted the invasion and expansion of zoonotic diseases in the Arctic. We will discuss root causes, management approaches and concerns for the future relative to these concerns.

### 9 a.m.-noon

# What Is the Arctic We Need to Sustain the Global Climate System? — Workshop

# Open • Auditorium, Margaret Murie Building, UAF Fairbanks campus

This Arctic 21 workshop will examine the impact that climate change is having on the Arctic and the rest of the planet, and the responses of institutions including the Arctic Council, the Intergovernmental Panel on Climate Change, and the United Nations Framework Convention on Climate Change, including the Paris Agreement.

The workshop will look at five areas of Arctic change — permafrost, sea ice, snow cover, the Greenland ice sheet and the Canadian and Alaska glaciers — and discuss how those impact local lives and the global climate system, drawing from the Arctic Council's recent updated climate impact assessment (SWIPA). The central focus of the workshop will pose the question, "What is the Arctic we have to have, and how do we get there?"

### 9-10 a.m.

# Aerospace Opportunities in Alaska and the Arctic — Workshop

# Open • Akasofu Building 501, West Ridge, UAF Fairbanks campus

Run in conjunction with the "Opportunities in the Arctic: Geophysical Research" workshop.

A panel of experts chaired by **Bob McCoy**, Director, Geophysical Institute, UAF

### 10-11 a.m.

# Opportunities in the Arctic: Geophysical Research – Workshop

# Open • Akasofu Building 501, West Ridge, UAF Fairbanks campus

Run in conjunction with the "Opportunities in the Arctic: Geophysical Research" workshop. A panel of experts chaired by **Matthew Sturm**, Professor, Snow, Ice and Permafrost, UAF

### **Arctic Council Ministerial Meetings**

Closed • Carlson Center, 2010 2nd Ave., Fairbanks

## 11:15 a.m.-1 p.m. Developing an Arctic ISAC

Invitation only • Decision Theater North, West Ridge Research Building, Room 010, UAF Fairbanks campus

### 9 a.m-3 p.m.

# Livestream: Handover of the Arctic Council Chairmanship

### Open • Wood Center ballroom, UAF Fairbanks campus

Join us for root beer floats as Alaska leaders and subject matter experts walk attendees through the (webcast) meeting of the Fairbanks Ministerial, providing Arctic Council context and background.

#### 3-4 p.m.

# ${\bf Locally-Based\ Participatory\ Monitoring-Workshop}$

# Open • Akasofu Building 401, West Ridge, UAF Fairbanks campus

Expanding the Scientific Basis for how the World Can Monitor and Manage Natural Resources

**Finn Danielsen**, dr.scient. (D.Sc.), Nordic Foundation for Development and Ecology (NORDECO), Denmark

Human knowledge on the status and trends of natural resources, ecosystem services and species on earth is limited. Global

environmental assessments synthesize this limited data, which is then used in decision-making. There is a serious risk that decisions are poorly targeted and not addressing critical needs.

# 5-8:30 p.m.

# "Taking Flight" Closing Reception

# By Invitation Only • CTC Aviation Hangar, East Ramp, Fairbanks International Airport

A closing reception in honor of the Fairbanks Ministerial and continued Arctic collaboration during the Finnish Chairmanship. "Taking Flight" reflects on the opportunity that comes with Alaskan leadership in Arctic issues, even as attention turns to other areas of the circumpolar north.

### 7-9 p.m.

# From Northern to National News: The Challenges of Covering a Changing Arctic

### Public • Raven Landing • 949 McGown St., Fairbanks

Covering the Arctic presents unique challenges for both international and local news outlets. This panel will explore the various approaches that these different news outlets use to overcome the challenges of media coverage in Arctic regions — as well as the opportunities that the changing North provides for reaching new audiences with new forms of storytelling.

# Friday, May 12

### 8 a.m.-noon

# Arctic 2030: Projecting Challenges Facing Arctic Maritime Operators Workshop

By Invitation Only • Globe Room, Elvey Building, West Ridge, UAF Fairbanks campus

Jointly hosted by the Arctic Domain Awareness Center (ADAC) and the U.S. Coast Guard HQ (HQ USCG) Future Concepts Division.

### 9 a.m.-2 p.m.

# One Health Concerns in a Changing Arctic — Workshop

By Invitation Only • Hess Recreational Center, MBS Complex, UAF Fairbanks campus

# **International Arctic Assembly**

# Tuesday, May 9 Davis Concert Hall, UAF Fairbanks Campus

The International Arctic Assembly will demonstrate an innovative approach to multidisciplinary, cross-sectoral dialog that will feature local, national and international speakers from business, policy and research. Plenary panel discussions will focus on Arctic policy, Alaska's unique role in informing and influencing state, national and international policy, scientific research, indigenous leadership and culture, and social-economic development.

This will be a great opportunity to explore a broad range of perspectives and objectives related to Arctic research. International discussions will help improve understandings of the role of science in addressing gaps, in enabling understanding of the Arctic system, and in implementing policy that will benefit all nations.

# **Program**

Coffee at 7:30 a.m., doors open at 7:45 a.m.

# **Introduction and Background**

8:00 a.m. Welcome and introduction — Larry Hinzman, Vice Chancellor

for Research, University of Alaska Fairbanks

8:10 a.m. Traditional Welcome – **Steve Ginnis**, Executive Director, Fairbanks Native Association

8:15 a.m. University of Alaska Welcome – Dana Thomas, Chancellor, University of Alaska Fairbanks

8:20 a.m. Welcome to Alaska — Byron Mallott, Lieutenant Governor, State of Alaska

# Session A: Facilitating Collaboration in Arctic Science: The Role of the Interagency Arctic Research Policy Committee

**8:30 a.m. Martin Jeffries**, IARPC Executive Director

# Session B: Fostering Knowledge Co-Production; Best Practices for Co-Management

How is critical knowledge produced and used in managing resources and the environment? This panel examines examples in the circum-Arctic and beyond that illustrate best practices, challenges and potential ways forward. Panelists will discuss how scientists and community members relate to one another to produce vital information. They will also discuss how layers of governments — tribal, municipal, state, federal and international — integrate science and indigenous knowledge in management decisions.

9:00 a.m.

Facilitator Welcome: Fran Ulmer, Chair, U.S. Arctic Research Commission

**Panelists** 

- Catherine Coon, Bureau of Ocean Energy Management, USA
- Raychelle Daniel, Tuntutuliak, AK, USA
- Finn Danielsen, Nordeco, Denmark
- Reggie Joule, Kotzebue, USA
- Lene Kielsen Holm, Greenland Institute of Natural Resources, Greenland
- Rodd Laing, Nunatsiavut Government, Canada
- Mike Miller, Sitka Tribal Council, USA
- Greg Poelzer, University of Saskatchewan, Canada
- Atsushi Sunami, National Graduate Institute for Policy Studies, Japan

BREAK: 10:15 - 10:30

# Session B (cont.): Fostering Knowledge Co-Production; Best Practices for Co-Management

**10:30 a.m.** Panel Continuation

# 11:35 a.m.-1p.m.: No-Host Lunch, Dine 49, Wood Center

# Session C: Arctic Infrastructure – Planning, Development and Risk Mitigation

With an estimated US\$1 trillion in new infrastructure needs and growing risks to the current built environment posed by extreme events and a warming climate, the Arctic faces real challenges. Home to 4+ million people and an annual economy of more than US\$230 billion, the region's environment and economy are increasingly playing an important global role. This panel session examines issues related to infrastructure planning and development. Panelists will discuss issues related to risk assessment and mitigation, investment, economic impacts and adaptation.

1:00 p.m.

Facilitator Welcome: **Craig Fleener**, Moderator, Arctic Policy Advisor, State of Alaska Panelists:

- April Melvin, National Academy of Sciences
- Arne Instanes, Geotechnical Engineer, Instanes Polar
- Billy Connor, Alaska University Transportation Center
- Lori Parrott, Atmospheric Sciences, Sandia National Laboratories

BREAK: 3:00 - 3:20

# Session D: The Arctic – A Global Perspective

The Arctic is no longer an emerging region of interest; rather it is a dynamic landscape of change and dialogue. With the Arctic continuing to warm, and evidence of rapid social, political, and economic change, the Arctic is now a region of global interest, challenge, and opportunity. The Arctic Council continues to address these and other important issues through its well-established framework for international cooperation. However, the Arctic Council is not the only venue where Arctic issues are discussed and addressed. Indigenous and First Nations peoples, local, regional, and other nation states are actively engaged in policy and planning initiatives and activities to address the ever-evolving Arctic landscape. As the US transitions the Chairmanship of the Arctic Council to Finland in May of 2017, the pace of change appears to be quickening. Engagement, dialogue, and clarity is needed now more than ever in order to better understand local, regional, and nation state interests and intentions in the Arctic. A distinguished panel of international policy makers and diplomats will share their unique global perspectives on the Arctic and how such perspectives can inform and shape local, regional, national, and international policy formulation.

3:20 p.m.

Facilitator Welcome: **Mike Sfraga**, Facilitator, Director, Polar Initiative, Woodrow Wilson Center for International Scholars, Affiliate Faculty, International Arctic Research Center, University of Alaska Fairbanks

### Panelists:

- Ambassador **David Balton**, Chair of the Senior Arctic Officials
- Tomas Orri Ranarsson, Counselor, Arctic Affairs, Directorate for International and Security Affairs, Ministry of Foreign Affairs, Iceland
- Captain, James R. Hamilton, Commander of the USCG Cutter Healy
- Mira Kleist, Special Advisor, Department of Foreign Affairs, Greenland
- **Tero Vauraste**, Vice Chairman, Arctic Economic Council, and President and CFO of Arctia Ltd.

**4:15 p.m.** Panel Discussion

# **Closing Session**

**4:45 p.m.** Closing Remarks – **Jim Johnsen**, President, University of Alaska

4:55 p.m. In person closing remarks — Larry Hinzman, Vice Chancellor

for Research, University of Alaska Fairbanks

### 5:00 p.m. Adjourn

# **Arctic Council Showcase**

# Wednesday, May 10 Davis Concert Hall, UAF Fairbanks Campus

8:00 a.m. Doors open

8:30 a.m. Welcome – Drue Pearce and Karen Perdue, Co-Chairs, Program Committee

State of Alaska introduction – Craig Fleener, Office of the Governor

**8:45 a.m.** Working Group Outcomes

• Renée Sauvé, Chair, Protection of the Arctic Marine Environment

• Roberta Burns, Chair, Sustainable Development Working Group

• Amy Merten, Chair, Emergency Preparedness, Prevention and Response

• Ulrik Westman, Chair, Arctic Contaminants Action Programme

• Martin Forsius, Chair, Arctic Monitoring and Assessment Program

• Reidar Hindrum, Chair, Conservation of Arctic Flora and Fauna

BREAK: 10:30 - 10:45

10:45 a.m. Tina Pidgeon, Executive Vice President, GCI; Alaska Arctic Council Host Committee

Task Force and Expert Group Outcomes

• Evan Bloom, Co-Chair, Scientific Cooperation Task Force

• Marcus Carson, Arctic Resilience Report

• Joel Clement, Arctic Resilience Action Framework

11:45 a.m. Announcing the I AM INUIT exhibit and reception — Jimmy Stotts, Inuit Circumpolar Council

# Arctic Highlights Forum

# Wednesday, May 10 Davis Concert Hall, UAF Fairbanks Campus

1:30 p.m. Welcome by Brian Rogers, Veronica Slajer and Mead Treadwell

State of Alaska introduction – Lieutenant Governor **Byron Mallott** 

Indigenous Knowledge Roundtable – Moderated by **Evon Peter**, University of

Alaska Fairbanks; organized by the Indigenous Peoples Secretariat

• Rane Willerslav, University of Aarhus

• Henry Huntington, Huntington Consulting

• Svein Disch Mathiesen, International Centre for Reindeer Husbandry

3:00 p.m. The Álgu Fund

• Jim Gamble, Aleut International Association

• Sam Alexander, Gwich'in Council International

**3:15 p.m.** Congressman **Don Young** 

3:20 p.m. Arctic Shipping Best Practice Forum – Michael Kingston, Managing Director, Kingston Associates

3:35 p.m. WWF Arctic Council Scorecard — Alexander Shestakov, WWF Arctic Program

4:05 p.m. Meteorological Cooperation in the Arctic – Prof. Juhani Damski,

Director General, Finnish Meteorological Institute

4:35 p.m. Arctic Council Secretariat Update — Magnús Jóhannesson, Executive Director

5:00 p.m.: Adjourn



# NORTH BY NORTH

# North by North (Anchorage)

Anchorage will host a number of unique activities from May 12–14. These are designed to celebrate the state's Arctic, share that Arctic with community members, and attract visitors from other Arctic states to learn, exchange and build. Together, these events form North by North—an introduction to and reclaiming of Arctic innovation, resilience and sustainability. Each is driven by local and public participation, spanning the circumpolar North.

We will welcome visiting delegations from other Northern communities, build awareness of Alaska's Arctic, and cultivate the role that we each play in advancing the state as an Arctic leader.

# **Schedule Overview**

	THU 11	FRI 12	SAT 13	SUN 14
DAYTIME	Ш ∑ Ministerial Watch Party,	Innovata Aratia	Arts, Crafts & Culture Expo	Arta Crafta C Cultura Funa
Museum Exhibits and Public Presentations	Innovate Arctic	Northern Food & Local Beer Tasting	Arts, Crafts & Culture Expo	
EVENING		Circumpolar Film Festival	NxN Dance Party	

# **North by North Sponsors**



































# North by North: Program of Events

All events at the Anchorage Museum unless otherwise noted.

# Thursday, May 11

# Center/Periphery Art Installations Open at the Anchorage Museum

Art installations by Cuba/U.S. artist **Armando Marino** (Exile),Taiwan artist KUO I-Chen (STUPIN), Scotland designer **Graham Hogg** of Lateral North (Mapping Anchorage) and U.S. artist **Eames Demetrios** (Kcymaerxthaere) open.

# Friday, May 12

### 8 a.m.-4 p.m. Innovate Arctic

Innovate Arctic builds on a long tradition of Alaskans and Northern peoples finding solutions to challenges within the environment upon which they depend. The day is built around TED-style talks from high-level speakers representing all eight Arctic nations, each of whom will bring their experience, vision and passion for the topic to Anchorage. Topic-driven breakout sessions will engage the audience in lessons learned, best practices, challenges and potential opportunities, including cross-border cooperation and joint ventures. International and Alaska speakers will lead discussions around innovation related to Arctic topics that include cold climate housing, northern agriculture, tourism, renewable energy, telecom and education. The purpose of this event is to inspire Arctic citizens to dream big, import and export thought-economy, and encourage collaboration across the Arctic.

# Noon Polar Bear Garden Exhibition Tour

The Polar Bear Garden exhibition looks at the connections between Alaska and Russia since the U.S. purchase of Alaska in 1867.

# 8-10 p.m. \* 10:30 p.m. Circumpolar Film Festival

Enjoy a night of Arctic films. Film producers and film festival organizers from six Arctic nations and Alaska are screening audience favorites from film festivals around the Arctic during the North by North Film Festival. Participating film festival directors

- Martha Otte Tromso International Film Festival (Norway)
- **Sunna Nousuniemi** International Sami Film Institute (Norway)
- Pablo Saravanja Yellowknife International Film Festival (Canada)
- Jay Bulckaert Dead North Film Festival (Canada)
- Nina Paninnguag S. Jacobsen PaniNoir Films (Greenland)
- Antti Martikainen Arctic Heat Film Festival/Film Centre of Central Finland (Finland)
- Roger Bergström Arctic Light Film Festival (Sweden)
- Hrönn Marinósdóttir Reykjavík International Film Festival (Iceland)
- Rebecca Pottebaum Anchorage International Film Festival (Alaska)

### 10 a.m.-1 a.m. Arctic Dance Party

### Williwaw

Six DJs from Iceland, Canada, Greenland, Finland and Russia will join with Alaska musicians for the North by North festival's Arctic Dance Party. Friday's event includes:

- DJ Arctic (Canada)
- DJ Tosch (Norway)
- **DJ Orion** (Finland)
- Yngvil Vatn Guttu
- Lena Lukina
- Alex Parsons
- Misha Shimek

# Saturday, May 13

## 10 a.m.-6 p.m.

### Arts, Crafts and Culture Expo

Artists, artisans and craftspeople from across Alaska and representing northern approaches or perspectives will participate in this free event in the Museum Atrium. Also included are song and dance performances, poetry readings and Arctic Winter Games demonstrations.

## 11 a.m.-noon Arctic Issues: Ivory

Artist Susie Silook; Vera Metcalf, director of the Eskimo Walrus Commission (EWC) at Kawerak, Inc. in Nome; and Dalee Sambo Dorough, University of Alaska Anchorage, will discuss issues affecting Alaska's walrus ivory art market and the efforts underway to protect Alaska Native artists.

### 11:30 a.m.

# Smithsonian Arctic Studies Center: Living Our Cultures exhibition tour

Gain a better understanding of Alaska's indigenous cultures on this tour through 600 Alaska Native artifacts. Learn about traditional life in Alaska's diverse regions through clothing, tools, ceremonial objects and more.

### Noon

### I Am Inuit Discussion

I Am Inuit is a project of the Inuit Circumpolar Council-Alaska that seeks to connect the world with Alaska Inuit (Inupiat, Yup'ik, Cup'ik and St. Lawrence Island Yupik) and the Arctic through common humanity. Join a discussion with **James Stotts**, president of the ICC-Alaska; **Kate Kokeok**, Inupiaq from Shishmaref, Alaska; and photographer **Brian Adams** about the project.

### 1 p.m.

### Arctic Issues: Art at the Center/Periphery

The Arctic — like many other places in the world — is often perceived as at the edges by outsiders, separated by geography or politics. Artist voices in these places represent resilience and distinct perspectives and connections to the globe.

### 2 p.m.

### **Arctic Issues: Center/Periphery**

This panel explores places at the center of global movements, influence and discussion, much like the Arctic. Included are artists Marek Ranis (Poland), Armando Marino (Cuba), and KUO-I Chen (Taiwan); designer Graham Hogg (Scotland); and scholar Robert Templer (Spain/Hungary).

#### 3 p.m.

### **Arctic Issues: Resilience and Resistance**

Mara Kimmel and visiting Central European University scholar Robert Templer will explore the many ways humans have been adaptive and resilient. The discussion will be moderated by Fran Ulmer, chair of the U.S. Arctic Research Commission; poetry reading by Toby Widdicombe.

### 1-8 p.m.

### Circumpolar Film Festival

Film producers and film festival organizers from six Arctic nations and Alaska screen audience favorites from film festivals around the Arctic.

# 4-8 p.m.

### **Arctic Lawn Party and Street Foods**

Come to evening of great food, music, dancing, beer, games, lively discussions and art. Dance to live music and tunes by visiting Arctic DJs, including **Modern Savage** (Alaska), **DJ Arctic** (Canada) and **Lady Waks** (Russia). See Arctic Winter Games demonstrations and view the **J. Raymond Mireles** installation of his Neighbors project; and a take part in the beer garden featuring Alaska and Northern beers. Savor Northern dishes created by chefs from Alaska and several Arctic nations.

- Chef Aaron Apling-Gilman Seven Glaciers at Alyeska Resort.
- Chef **Viktor Örn Andrésson** (Iceland) named the Nordic Chef of the Year in 2014
- Chef Nikolay Gabyshev (Russia, Sakha Republic) chief chef at the Muus Khaya restaurant
- Chef Jørn-Eirik Johnsen (Norway) based in Tromsø, Arctic Menu project manager

# 8 p.m.-1 a.m.

### **Arctic Dance Party**

### 5th & B Rooftop

Saturday night's event includes local and international artists:

- DJ Arctic (Canada) and Josh Antonio
- DJ Uyarakq (Greenland) and Misha Shimek
- DJ WD4D (United States)
- AKU MATU and Yada Di (Alaska)

# Sunday, May 14

### 10 a.m.-4 p.m.

### **Arts, Crafts and Culture Expo**

Artists, artisans and craftspeople from across Alaska and representing northern approaches or perspectives will participate in this free event in the Museum Atrium.

### 10 a.m.

## **Arctic Issues: Northern Chefs and Local Foods**

Chefs from Norway, Iceland and Russia will discuss what is meant by Arctic foods, emerging trends in this field, and how to continue to experiment with food culture and food systems in this region. Panel will be moderated by **Elizabeth Hodges Snyder** of UAA and the Alaska Food Policy Council.

### 11 a.m.-3 p.m.

### Circumpolar Film Festival

Enjoy an afternoon of Arctic films. Film producers and film festival organizers from six Arctic nations and Alaska are screening audience favorites from film festivals around the Arctic during the North by North Film Festival.

#### 11 a.m.

# Alaska-Russia Cooperation: The Next 150 Years; Social and Cultural Exchange

David Ramseur, author of Melting the Ice Curtain, will moderate a panel discussion that includes Julie Decker, CEO of the Anchorage Museum; Vera Metcalf, visa-free U.S. coordinator; Craig Fleener, senior advisor on Arctic policy for the State of Alaska; Lady Waks, artist and entrepreneur from Russia; and Nikolay Gabyshev, head chef of Muus Khaya restaurant, Sakha Republic.

#### 11:30 a.m.

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### **Arctic Issues: Film Festival Discussion**

Film festival directors from eight Arctic nations participate in a review of best practices, lessons learned, common challenges and the role Northern filmmakers play in world cinema. They will explore opportunities for collaboration and future circumpolar exchange and networking.

### 1 p.m.

## **Arctic Issues: DJ Dialogue**

DJs visiting from Iceland, Norway, Russia, Canada, Greenland and Finland will explore their commonalities, differences, challenges and opportunities. Additionally, they will discuss what is meant by "Arctic Music," the marketing and export of Arctic music, and offer listening suggestions.

# 2 p.m.

# **Arctic Issues: Architecture and Design**

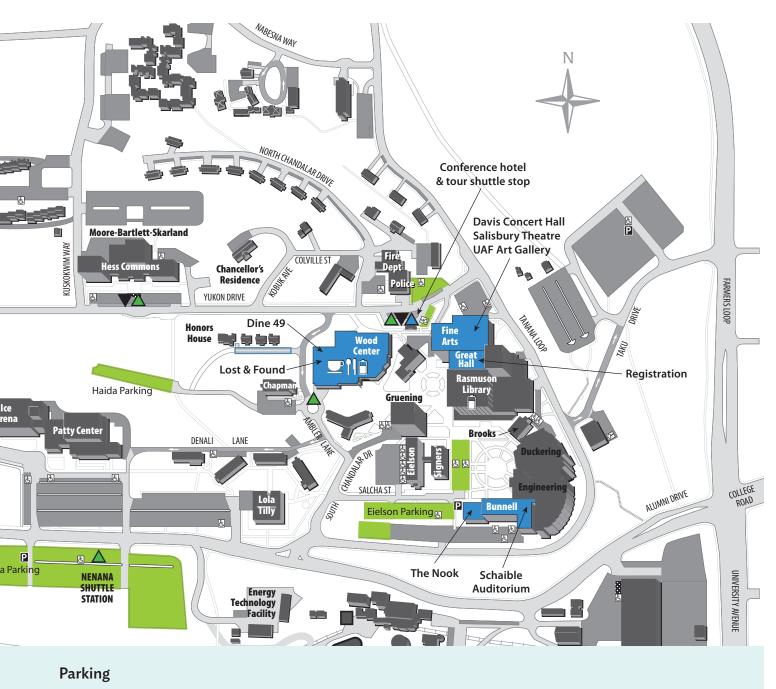
Local architecture, design and engineering firms will present the latest innovative technology that helps communities adapt to and strengthen their resilience in the face of an Arctic environment. Including **James Dougherty**, RIM Architects; **Roy Rountree**, Bettisworth North Architects & Planners; and **Tony SlatonBarker**, Coffman Engineers.

# **Fairbanks Shuttle Schedules**

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Candlewood	7:10	8:10	7:10	8:10	7:10	8:10	7:10	8:10
Hampton Inn	7:15	8:15	7:15	8:15	7:15	8:15	7:15	8:15
Wedgewood	7:25	8:25	7:25	8:25	7:25	8:25	7:25	8:25
UAF Butrovich	7:40	8:40						
UAF Murie			7:40	8:40	7:40	8:40	7:40	8:40
UAF Elvey/IARC			7:42	8:42	7:42	8:42	7:42	8:42
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AM - West Fairbanks Ho								
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La Quinta	7:20	8:20	7:20	8:20	7:20	8:20	7:20	8:20
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# Map: UAF Fairbanks campus





- Available parking
- Restricted 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.

# Registration Desk Hours and Location

Register and pick up name badges, campus maps and other conference materials. Check the registration desk for daily updates, including any schedule or location changes.

Tuesday, May 9, and Wednesday, May 10 Great Hall, UAF

7 a.m.-5:30 p.m.

Registration required.

# **UAF Fairbanks Campus Dining Options**

**Arctic Java, Wood Center** 

Open 7:30 a.m.-5 p.m., May 8-12. On-the-go coffee, espresso, baked goods, sandwiches and salads.

**Dine 49, Wood Center** 

Open 11 a.m.-1:30 p.m., May 8-11. Lunch only. Open 11 a.m.-1:00 p.m., May 12. Lunch only.

**Fine Arts Complex Great Hall** 

Open Tuesday & Wednesday, 7:30 a.m.-5 p.m. All-day coffee, tea and light snacks included for Arctic Interchange registrants.

**UA Museum Café (West Ridge)** 

Open 9 a.m.-4 p.m., May 8-12. Snacks and locally roasted coffee and espresso.

# **UAF Centennial: Celebrating a Century**

In 1915, it was an audacious idea — to create a college in tiny, remote Fairbanks, Alaska. Already, the gold rush town was fading. But the man who named the town, James Wickersham, admitted no embarrassment in also proposing a college for it.

As Alaska's nonvoting territorial delegate, Wickersham convinced members of Congress to set aside land for the college at an existing federal experiment farm near Fairbanks.

It took two more years for the Alaska Territorial Legislature to approve the idea — by a margin of only one vote in the House. Gov. John Strong signed the bill on May 3, 1917, launching an institution that celebrates its centennial this year.

The new institution began with two buildings — the president's residence and the Main Building. That two-story frame structure included everything from the campus powerplant to laboratories, offices and classrooms.

On opening day, Sept. 18, 1922, six faculty members, in addition to the president and his secretary, were on hand to greet the six students who enrolled. The first student graduated in 1923.

In 1935, the alumni association asked for a change of name. The Legislature approved and the Alaska Agricultural College and School of Mines became the University of Alaska on July 1 of that year.

In the century since it was launched, the university has continued to evolve alongside Alaska and its people.

In the 1970s, UA added rural campuses and was reorganized to include separate institutions in Fairbanks, Anchorage and Juneau, each with their own chancellor. The University of Alaska system now includes about 400 buildings throughout the state and teaches roughly 35,000 students, who can choose from among 500 degree, certificate and endorsement programs.

UAF has grown to become an international research institute, a proud winner of NCAA athletics championships and a key engine in developing Alaska's workforce.

# **UAF and Arctic Research**

Research scientists and engineers live in a world of experiments, tests and puzzles, but they seek and attack these challenges to help our society live more comfortably and safely and with a secure future.

The environment, economy and demographics of the circumpolar North are changing in complex yet predictable ways. Our knowledge of the connections among these systems grows continually, but the rapid changes also present an urgency to helping Northerners understand and adapt to these dynamic times. Scientists strive to develop technology and provide knowledge and understanding essential for northern residents and policymakers to make informed decisions while preserving the best of what we are.

The value of scientific research includes direct investment in local economies and improvements in community life. Our research engages undergraduate and graduate students so they gain skills and knowledge to become tomorrow's leaders. Engineering studies enhance construction techniques to reduce costs and improve infrastructure performance in our cold, harsh and remote regions. Wildlife and fisheries studies provide insights that enable better ecosystem-based management. Social, biological and health research yield insights into threats and solutions to individual and community wellness. Monitoring geophysical processes of Earth and the solar system improve communications, travel, weather forecasting and national security.

As the University of Alaska celebrates its 100th anniversary, we celebrate our accomplishments and contributions to society with pride. Our researchers work diligently, often in harsh conditions, to make the world a better place. We look forward to the next 100 years and the many challenges that lie before us with the promise that we will continue to serve you, Alaska, the nation and the global community.

# **Background**

Research at the University of Alaska Fairbanks is as complex and diverse as the Arctic itself, with some of the world's best scientific facilities supporting eight major research units and hundreds of experts in the physical, biological and social sciences.

UAF leads the world's research institutes in the number of Arctic-related publications and citations. Part of our success is the place: From our headquarters in Fairbanks, in the heart of Alaska, we step through our door into a laboratory that reaches all the way around the circumpolar North. Part of it is our people, who come from all over the world but who share the Alaska spirit of openness and ingenuity.

Just as important as making discoveries is translating them into tools and information that policymakers and ordinary citizens can use to make better decisions for themselves, their communities and their countries.



On the cover: An iceberg is frozen in place near Juneau's Mendenhall Glacier. (UAF photo by Todd Paris)

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