AAS19 is supported by moderators from the following organizations:

In support USNORTHERN Command’s Arctic Security and Defense Mission

Alaskan Command hosts

Arctic Symposium 2019 (AAS19)

Advancing Strategic Partners in Securing America’s Arctic Interests

University of Alaska Fairbanks
13-15 November 2019
Introduction.

In support of United States Northern Command (USNORTHCOM), Alaskan Command (ALCOM) is hosting a 3 day Arctic Symposium from 13-15 November 2019 at the University of Alaska Fairbanks. The overarching goal of this Arctic Symposium is to support USNORTHCOM’s Arctic mission, through convening a wide array of leaders and experts, very near the Arctic, during a time of year when the environment provides a solid reminder of the challenges faced in this austere and strategically vital region.

Accordingly, in support of USNORTHCOM’s Arctic missions and associated tasks and requirements established in the U.S. Presidentially approved Unified Command Plan, ALCOM’s Arctic Symposium 2019 (AAS19) is planned as a composite and complex event. AAS2109 includes multiple plenary sessions, breakout group electives and follow-on field activities, principally focused to advance greater understanding, improved networks and more effective approaches in discerning and developing solutions to address current and emerging concerns to U.S. national interests in the Arctic region. AAS19 provides ALCOM’s senior command, USNORTHCOM, an opportunity to gain convergence in shared understanding and improved unity of effort from across policy and practices via a new and developing network of defense and security-minded professionals. Such convergence practically is gained by framing discussions from a cross agency and multi-disciplined approach to advance measures to deter, dissuade potential adversaries, while also protecting, securing and defending America’s citizens, U.S. Sovereign Territory and U.S. National Interests in the Arctic region.

The principal outcome sought in AAS19 is to improve understanding of the challenges in the complicated risk environment that describes the new circumpolar north. Symposium planners seek AAS19 will create thoughtful discussions to gain needed solutions to address and potentially reduce the associated defense and security risks.

AAS19 Agenda

AAS19 provides an important venue for building partnerships within the defense and security communities and select international, governmental, nongovernmental, academic, industry, State, local, tribal and private sector Arctic Communities Of Interest (COIs).

A Note about AAS 19 Outdoor Attire

As Fairbanks winter temperatures can be extremely cold, participants are reminded to utilize extreme cold weather clothing when outdoors (such as during the scheduled field activities on 15 November), including heavy gloves, hats, and thermals where appropriate, and to familiarize themselves with measures to avoid cold weather related injuries such as frostbite (minimize skin exposure, dress warmly and in layers).

Note: Further Administrative and logistics details follow the Agenda.
12 Nov 2019:
Arrival and/or ADSO-ES

1200-1600 Arctic Domain Security Orientation Executive Session (ADSO-ES), led by Dr. Cameron Carlson, LTC (Ret), USA, School of Management, (SOM) University of Alaska Fairbanks, (UAF) Fairbanks Alaska.

Note, respectfully request participants have lunch before the start of ADSO-ES

ADSO Team:

- Mr. Troy Bouffard, SOM, UAF, Fairbanks, Fairbanks, Alaska.
- Mr. Sam Alexander, SOM, UAF, Fairbanks, Fairbanks, Alaska
- Dr. James Morton Jr., LTC, USAR, SOM, UAF, Fairbanks, Fairbanks, Alaska.

Location: UAF Geophysical Institute, Elvey Auditorium, West Campus, University of Alaska Fairbanks, 2156 N. Koyukuk Drive, Fairbanks AK, 99775 (Confirmed).

Note, associated parking lot is adjacent to UAF Geophysical Institute, and is a pay lot. There is a kiosk that accepts cash and credit/debit cards.

Uniform/attire: Recommended Uniform of the Day (military), Business Casual (sports coat/open collar (civilian).

1800-1930: Dinner, invitation only, hosted by Arctic Domain Awareness Center (ADAC). Dinner is in support of ALCOM and Alaska Native Community collaboration.

Location: The Pump House Restaurant, 796 Chena Pump Road, Fairbanks AK. 99709 (Confirmed).

Note: Bus/motor coach travel from hotels to dinner is provided.

Uniform/attire: Business Casual (all)
13 Nov 2019:

0800-1740 Alaskan Command Arctic Symposium Day 1. “Sketching the landscape, understanding the contours.” A series of discussions to frame perspectives of the dynamic Arctic from Indigenous Knowledge, physical environment, political, defense and security vantages.

Location: UAF Lower Campus, Davis Concert Hall at the Great Hall, University of Alaska Fairbanks, 505 South Chandalar Drive, Fairbanks AK, 99775 (Confirmed).

Uniform/attire: Recommended Uniform of the Day (military), Business Casual (sports coat/open collar (civilian)).

0730-0800: Symposium check-in, continental breakfast served.

0800-0810: Start of Arctic Symposium. Administrative remarks by Symposium facilitator, Maj Gen (Ret), Church Kee, USAF, Executive Director, Arctic Domain Awareness Center, University of Alaska Anchorage, Anchorage Alaska.

0810-0825: Opening ceremonies. Color Guard, posting of the colors, national anthem and opening prayer by Alaskan Native veterans. Planned prayer: Reverend Dr. Anna Frank (Invited/pending).

Planned Native Color Guard POC: Mr. Benno Cleveland, President of the Alaska Native Veteran’s Association, Fairbanks, Alaska (Confirmed).

National Anthem and Alaska State Flag Song, Laura Lamecker, Student and U.S. Army ROTC Cadet, UAF, Fairbanks, Alaska. (Confirmed).

ADAC provided opening video (Confirmed).

0825-0900: Official welcomes by UAF, Fairbanks regional leaders, Alaskan Command/Alaska NORAD Region:

- University of Alaska Fairbanks Chancellor, Dr. Dan White (Confirmed).
- North Star Borough Mayor, Mr. Bryce Ward (Confirmed).
- Alaska State Senator, John Coghill (Confirmed).
- Alaska State Senator, Josh Revak (Pending).
- Commander Alaska NORAD Region, Alaskan Command and 11th Air Force, Lt Gen Tom Bussiere, USAF (Confirmed).
0900-0940: Opening Keynote speaker “The Changing Arctic...a Long View” Dr. Brendan Kelly, Executive Director of the Study of Arctic Environmental Change (SEARCH), and Professor of Marine Biology, International Arctic Research Center, University of Alaska Fairbanks (Confirmed).

From 4-6 Sep 2019, Dr. Kelly led the “Arctic 2050 Futures” symposium at the National Academy of Sciences in Washington D.C. This remarkable forum provided a long look at developing changes to the physical environment and associated impacts across the circumpolar North from both the views of Western Science and the community of Arctic Indigenous Knowledge.

0940-1010: Reflections on the power of Alaska's Indigenous Peoples to advance Arctic and Northern regional security. Dr. Rosita Worl, President of the Sealaska Heritage Institute of the Sealaska Corporation, Juneau Alaska (Confirmed).

Dr. Rosita Kaahani Worl is the president of the Sealaska Heritage Institute of the Sealaska Corporation. In addition to her long and profitable service in leading an influential Alaska Native Corporation, she has taught at the University of Alaska Anchorage as an anthropologist.

1010-1025: Break.

1025-1125: Hidden in Plain Sight: The Growing Capacity of North Arctic Indigenous Peoples: A multi-disciplined panel of Alaskan Native leaders. This panel will describe alignment of vision, goals and actions necessary to accelerate a dynamic partnership between Indigenous people and the military to address the rapidly changing security environment.

Planned moderator: Dr. Whitney Lackenbauer, Trent University, Peterborough Ontario, Canada (Confirmed).

Planned panelists:

- **Ms. Sarah Obed** Vice President, External Affairs, Doyon Corporation, Fairbanks, Alaska (Confirmed).

- **Mr. Greg Razo**, Vice President, Cook Inlet Region Inc. Anchorage, Alaska (Confirmed).

- **Ms. Mary David**, Executive Vice President, Kawerak Inc. Nome, Alaska (Confirmed).

- **Mr. Nagruk Harcharek**, Director of Barrow Operations, Ukpeaġvik Iñupiat Corporation, Utqiagvik, Alaska. (Confirmed).

1150-1200: *AAS19 Group Photo.* *(Planned for outside Great Hall...weather dependent).*

1200: *Reconvene in Great Hall for Lunch.*

1200-1300: *Lunch with opportunity for Networking.*

1300-1305: *Reconvene in Davis Concert Hall.*

1305-1345: *Legislate priorities for the Arctic, Part 1: a collection of assessments from Alaska’s Congressional Delegation.* Moderated by Ms. Rachel Kallander, Founder and Executive Director, Arctic Encounter, Anchorage Alaska *(Confirmed).*

1305-1315: *Legislative priorities for the Arctic...assessments from Congressman Don Young (R-AK).*

**Description:** A Congressional update on legislative matters oriented to the Arctic from a member of the Alaskan Congressional Delegation.

**Planned presenter:** Representative Don Young, (R) Alaska. *(In person/remote/recorded). *(Confirmed...Recorded Message).*

1315-1335: *Legislative priorities for the Arctic...assessments from Alaska’s Senator Sullivan (R-AK)*

**Description:** A Congressional update on legislative matters oriented to the Arctic from a member of the Alaskan Congressional Delegation

**Planned presenter:** Senator Dan Sullivan, (R-AK) Alaska. *(In-person/remote/recorded). *(Confirmed....via video teleconference VTC).*

**Note:** Zoom Teleconference information: [https://zoom.us/j/7691540232](https://zoom.us/j/7691540232) If the link does not work, you can dial 1-408 638 0968 or 1 646 558 0232. Meeting ID is 769 154 0232. Participant ID is 14.

**Alternate:** Join by SIP: 656340005@zoomcrc.com
1335-1345: *In-place break.*

1345-1450: **The rapidly changing Arctic environment...what's going on here?** A panel of Arctic science experts describe recent and projected Arctic environmental changes, to include the warmest summer in recorded history for the Alaskan Arctic region.

**Planned moderator:** Dr. Michael Sfraga, Director Global Risk and Resilience Program and Director Polar Institute, Woodrow Wilson Center, Washington D.C. **(Confirmed).**

**Planned panelists:**

- **Mr. Don Moore**, Alaska National Weather Service, Anchorage, Alaska **(Confirmed).**
- **Dr. Hajo Eicken**, Director, International Arctic Research Center, UAF, Fairbanks, Alaska **(Confirmed).**
- **CAPT Chris Gabriel**, USN, Commanding Officer, USN Fleet Weather Center, Norfolk, Virginia **(Confirmed).**
- **Dr. John Farrell**, Executive Director, U.S. Arctic Research Commission, Washington D.C. **(Confirmed).**
- **Mr. Nagruk Harcharek**, Director of Barrow Operations, Ukpeaġvik Iñupiat Corporation (UIC), representing UIC-Science, Utqiagvik, Alaska. **(Confirmed).**
- **Dr. Julie Morris**, Associate Director for the U.S. Global Change Research Program (USGCRP), Washington D.C. **(Confirmed).**
- **Mr. Craig Fleener**, Executive Director, Alaska Ocean Cluster, Anchorage, Alaska **(Confirmed).**

1450-1505: *Break.*

1505-1655: **Achieving Improved Unity of Effort in Order to Better Succeed at 30 Below.** An interactive panel discussion highlighting practical measures that can improve cooperation between defense/security forces and regional officials with local rural communities.

**Panel description:** A cross-cutting panel of experts who have different vantages, but mutual interests to advance cooperation and collaboration in order to improve Arctic security.

**Moderated by:** Dr. Whitney Lackenbauer, Trent University, Peterborough, Ontario, Canada.

**Planned panelists:**
• RADM Matt Bell, USCG, Commander, USCG District 17, Juneau, Alaska. (Confirmed).
• RDML Shep Smith, National Oceanic and Atmospheric Administration, (NOAA), Washington D.C. (Confirmed).
• Ms. Hallie Bissett, Alaska Native Village Corporation (Confirmed).
• Mr. Kevin Bjella, U.S. Army Corps of Engineers Cold Region Research and Engineering Laboratory (CRREL), Ft Wainwright, Alaska. (Confirmed)
• BG Joseph Streff, ANG, Director of Staff, Alaska National Guard, JBER Alaska (Confirmed).
• BGen Pat Carpentier, Commander, Joint Task Force North, Yellowknife, NWT, Canada (Confirmed).
• LCol Tim Halfkenny Commanding Officer 1st Canadian Ranger Patrol Group Canadian Armed Forces, Yellowknife NWT, Canada (Confirmed).

1655-1730: Leadership Lessons from Working Together (with a focus on cyber security).
Joint Presentation by Ms. Julie Kitka, President, Alaska Federation of Natives and Ms. Darlene Gates, President of Exxon Alaska (and Honorary Col of the Royal Canadian Air Force) with Introduction by Ms. Amanda Andraschko, Native Affairs Liaison, Alaska Command (Confirmed).
Additional participants include Special Agent William “Bill” Walton, FBI Anchorage, (Confirmed) and Col Tim Maxwell, ALCOM J6 JBER, Alaska (Confirmed).

1730-1740: Concluding remarks for Arctic Symposium Day 1.
• Commander Alaska NORAD Region, Alaskan Command and 11th Air Force, Lt Gen Tom Bussiere, USAF (Confirmed).

1740: Adjourn for Day 1 Arctic Symposium Dinner.

1900-2130: Reception Icebreaker followed by dinner, Pikes Landing Restaurant, 4438 Airport Way, Fairbanks AK, 99709 (Confirmed).
Bus pickup time for Pike’s to be posted at Symposium
Attire: Business Casual (all)
Opening remarks by Arctic Symposium Host, Lt Gen Tom Bussiere, USAF.
Guest speaker: Vice Admiral Linda Fagan, USCG, Commander, Pacific Region, U.S. Coast Guard, Alameda, California (Confirmed).
Planned Theme: "Rising to the challenge...exercising leadership in an increasingly complex Arctic geo-strategic environment."

2130: Adjourn, remainder of evening at leisure.

14 Nov 2019:

0800-1720 Alaskan Command Arctic Symposium Day 2. “Succeeding at 30 below”... A series of discussions to describe the challenges and ways to succeed across an array of multidiscipline endeavors under some of the most demanding theaters on the planet.

Location: UAF Lower Campus, The Davis Concert Hall and The Great Hall, University of Alaska Fairbanks, 505 South Chandalar Drive, Fairbanks AK, 99775.

Uniform/attire: Recommended Uniform of the Day (military), Business Casual (sports coat/open collar (civilian)).

0730-0800: Symposium check-in, continental breakfast served.

0800-0805: Start of Arctic Symposium Day 2. Administrative remarks by Symposium facilitator, Maj Gen (Ret), Church Kee, USAF, Executive Director, Arctic Domain Awareness Center, University of Alaska.


0815-0850: Rising to the Challenge: Addressing Public Safety, Rural Law Enforcement and Security Concerns in the North American Arctic. A bilateral exchange on the Canadian Rangers model and application to address security concerns in Arctic Alaska.

Panel Description: A CANUS panel that compares and contrasts the Canadian approach to protect and serve citizens in remote Arctic regions with the approach utilized in Arctic Alaska.

Planned moderator: Dr. Whitney Lackenbauer, Trent University, Peterborough Ontario, Canada.

Planned panelists:
LCol Tim Halfkenny Commanding Officer 1st Canadian Ranger Patrol Group Canadian Armed Forces, Yellowknife NWT, Canada (Confirmed).

Ms. Vivian Korthuis, AVCP, Bethel, Alaska (Confirmed).

Julie Kitka, President, Alaska Federation of Natives, Anchorage, Alaska (Confirmed).

Nicole Borromeo, Executive Vice President and General Counsel, Alaska Federation of Natives, Anchorage, Alaska (Confirmed).


0910-0915: Overview in Electives to advance Arctic Innovation and Technology aligned to support advancing research and knowledge to “Succeed at 30 below.”

Track 1: Arctic Science and Innovation.

Track 2: Arctic technologies in support of operational needs.

0915-0930: Break. Note: Track 1 will convene in the Great Hall, Track 2 will convene in the adjoining Wood Center.

0930-1210 (overall)

Track 1: Arctic Science and Innovation, A series of presentations moderated by Dr. Doug Causey, ADAC Principal Investigator, University of Alaska, Anchorage Alaska.

Location: Great Hall

Track 2: Arctic technologies in support of operational needs. A series of presentations moderated by Dr. Michael Sfraga, Director, Polar Institute, Wilson Center, Washington D.C.

Location: Davis Concert Hall

0930-1000

Arctic Research and Operations at the Geophysical Institute. Presentation by director Dr. Bob McCoy, University of Alaska Fairbanks, Fairbanks Alaska. (Confirmed).

1000-1030

Innovating remote power solutions: the Alaska Center for Energy and Power. Presentation by Dr. Jeremy Kasper, UAF, Fairbanks, Alaska (Confirmed).
1030-1100  
*Emerging mapping capabilities for the Arctic region: The Geographic Information Network for Alaska (GINA).* Presentation by GINA Director, **Mr. John Pace**, UAF, Fairbanks, Alaska *(Confirmed).*  
*Commercial Satellite data provides Maritime Situational Awareness.* Presentation by **Sigmund Dehli**, Kongsberg Satellite Services, Norway *(Confirmed).*

1100-1110  
**Break**

1110-1140  
*Next generation, Arctic capable, sensor integration research for remotely piloted aircraft.* Presentation by **Dr. Cathy Cahill**, Alaska Center for Unmanned Aircraft Systems Integration (ACUASI), UAF, Fairbanks, Alaska *(Confirmed).*  
*Sabre St Paul SPXTR Arctic Plan: Putting Alaska Technology forefront of Search & Rescue, Disaster Relief, Emergency Response, Hazmat Response and Interdiction.* Presented by Executive Director, **Mr. Patrick Baker** and President, **Mr. Amos Philemonoff**, Aleut Community of St Paul Island, plus **Mr. Ed De Reyes**, CEO Sabrewing Aircraft Company, St. Paul, Alaska. *(Confirmed).*

1140-1210  
*Research and innovation in the Arctic: The Alaska Satellite Facility.* Presentation by **Dr. Nettie Labelle-Hamer**, ASF Director, UAF, Fairbanks, Alaska. *(Confirmed).*  
*Support to Northern space operations: The Alaska Aerospace Corporation (AAC).* Presentation by President and CEO, **Mr. Mark Lester**, Anchorage, Alaska. *(Confirmed).*

1210  
**End of ALCOM Arctic Symposium 2019 Electives.**

1210-1215: **Reconvene** in Great Hall for Lunch.

1215-1305:  
*Lunch and lunchtime guest speakers...the Woodrow Wilson Polar Institute:*  
“The Unfolding geopolitical trends Across the Circumpolar North.” A lunchtime discussion with the Woodrow Wilson Center’s Polar Institute, led by **Dr. Michael Sfraga**, Director Global Risk and Resilience Program and Director Polar Institute, Woodrow Wilson Center, Washington D.C.

Accompanied by: **Mr. Jim Townsend**, Former DASD, and Global Fellow Polar Institute Woodrow Wilson Center; and **Mr. Abe Denmark**, Director of the Asia Program at the for Scholars, and a Senior Fellow Kissinger Institute on China and the United States, Woodrow Wilson Center, Washington D.C.

**Location:** UAF Great Hall

1305-1310: **Break** and reconvene in plenary session for Senator Murkowski Video
1315-1330: Legislative priorities for the Arctic (continued from previous day).
Moderated by Ms. Rachel Kallander, Founder and Executive Director, Arctic Encounter, Anchorage Alaska (Confirmed).

Legislative priorities for the Arctic...assessments from Alaska’s Senator Murkowski (R-AK).

Description: A Congressional update on legislative matters oriented to the Arctic from a member of the Alaskan Congressional Delegation.

Planned presenter: Senator Lisa Murkowski, (R) Alaska. (In-person/remote/recorded). (Confirmed...via video teleconference VTC).

Note: Zoom Teleconference information: https://zoom.us/j/7691540232  If the link does not work, you can dial 1-408 638 0968 or 1 646 558 0232. Meeting ID is 769 154 0232. Participant ID is 14.

1330-1340  In-place break.

1340-1510: Arctic 2020...becoming the Great Game of the New Millennium? A CANUS “Keynote” panel of operational defense leaders, vested with defending the respective national interests in the Arctic from more sophisticated and nuanced threat envelope associated with potential great power competition in the Arctic.

Panel Description: A panel of experts who lead defense or security forces prepared and equipped to protect and defend Canada and/or U.S. national interests in the Arctic region.

Moderated by: Maj Gen Randy “Church” Kee, USAF (Ret), ADAC Executive Director, University of Alaska.

Planned Panelists:
- VADM Linda Fagan, Commander, USCG Pacific Command, Alameda, California (Confirmed).
- MG Peter Andrysiak, USA, U.S. Army Alaska Commander, JBER, Alaska, (Confirmed).
- BGen Patrick Carpentier, Commander, Joint Task Force (North), Yellowknife, NT, Canada (Confirmed).
• **RADM Andrew Betton**, Royal Navy, Deputy Commander, NATO Joint Force Command Norfolk (Confirmed).


**Panel Description:** A panel oriented to discuss security-oriented Arctic strategies between the strategy points of contact within DHS and DoD.

**Moderated by:** Dr. Michael Sfrega, Director Global Risk and Resilience Program and Director Polar Institute, Woodrow Wilson Center, Washington D.C.

**Planned Panelists:**

• **Mr. Justin Gerber**, Office of Secretary Defense, Pentagon, Washington D.C. (Confirmed).

• **Ms. Iris Ferguson**, Deputy Chief of Staff, Operations, HQ USAF Pentagon, Washington D.C. (Confirmed).

• **Mr. Shannon Jenkins**, Commandant’s Senior Arctic Advisor (SAPA), HQ USCG, Washington D.C. (Confirmed).

• **Ms. Amy Holman**, NOAA Alaska Regional Coordinator, Anchorage Alaska, (Confirmed).

• **Mr. Jeff Barker**, Deputy Branch Head, Policy and Posture OPNAV N5I5B, HQ U.S. Navy, Pentagon, Washington D.C (Confirmed).

1545-1600:  *Break.*

1600-1710:  *Preparing the next generation.*  *Educating and training Arctic-minded leaders in security and defense and science to better secure, defend, serve and learn in an increasingly unpredictable Arctic.*

**An opening address by:** University of Alaska President, Dr. Jim Johnsen, followed by an interactive panel to explore educational convergence.

**Panel description:** A cross-cutting panel of experts who may be able to help those vested with better preparing and equipping defense and security personnel to establish a baseline of knowledge towards understanding the Arctic region.

**Moderated by:** Dr Larry Hinzman, Vice Chancellor for Research, ADAC Research Director, UAF, Fairbanks, Alaska.

**Planned panelists:**

• **Dr. John Farrell**, Executive Director, U.S. Arctic Research Commission,
1710-1720: Review and recap of the following day’s activities provided by symposium Host.


1720: Day 2 Adjourned.

Dinner by Invitation for AAS2019 VIPs Lavelle’s Bistro, 575 1st Ave, Other AAS2019 Participants: Silver Gulch Brewery, 2195 Old Steese Hwy N, Fairbanks AK, 99712 (Confirmed).

Attire: Business Casual (all)

Bus pickup time for Silver Gulch and Lavelle’s to be posted

1900-2130: Silver Gulch Brewery (time at restaurant).
1930-2200: Lavelle’s Bistro (time at restaurant).

15 Nov 2019:

0800-1500 Alaskan Command Arctic Symposium Day 3. “Arctic horizons...the way forward, followed by opportunities to orient”...a series of field activities.
**Location:** UAF Lower Campus, The Great Hall, University of Alaska Fairbanks, 505 South Chandalar Drive, Fairbanks AK, 99775.

**Uniform:** Recommend Alaska Casual, prepared for outdoor activities, which follow promptly after the plenary sessions (all).

0700-0750: **Opportunities for self-forming seminars**, and follow-on discussions, at the Great Hall, University of Alaska Fairbanks.

**Option:** ADAC facilitated “horse-blanket” work session in support of exercises and activities focused in securing the approaches to the U.S. from the Bering, Chukchi and Beaufort Seas. **Location:** Back corner of Great Hall.

0730-0800: **Symposium check-in**, continental breakfast served.

0800-0805: **Start of Arctic Symposium Day 3.** Administrative remarks by Symposium facilitator, **Maj Gen (Ret) Church Kee**, USAF, Executive Director, Arctic Domain Awareness Center, University of Alaska.

0805-0815: **Reflections from Arctic Symposium Day 2:** Arctic Symposium 2019 Host, **Lt Gen Tom Bussiere**, USAF, Alaskan Command, Alaska NORAD Region and 11th Air Force Commander.

0815-1000: **Arctic policy in support of improved security and defense of the Northern Flank of U.S and Canadian homeland?** What is missing and what is needed? A strategically oriented panel from senior policy and government experts in assessing gaps and shortfalls in policy and means to implement measures to better secure U.S. National Interests in the Arctic region.

**Panel description.** A panel of experts to critically examine current strategy, policy, and associated capabilities on the Arctic, offering ideas to address shortfalls and gaps.

**Moderated by:** **Maj Gen (Ret), Church Kee**, USAF, Executive Director, Arctic Domain Awareness Center, University of Alaska Anchorage, Alaska.

**Planned panelists:**

- **Dr. Mike Sfraga**, Director, Polar Institute Woodrow Wilson Center, Washington D.C. (Confirmed).
• **Ms. Eugénie Panitcherska.** First Secretary (Arctic Affairs) / Première secrétaire (affaires arctiques), Canadian Embassy to the United States, Washington D.C. (Confirmed).

• **Mr. Tony Penikett,** Former Premier of Yukon Territory, Vancouver, British Columbia, Canada (Confirmed).


• **Ms. Gail Schubert,** President and CEO Bering Straits Native Corporation, Nome Alaska (Confirmed).

1000-1030: **Assessing the changing human terrain...do we have an Arctic security problem?**

A CANUS panel of security experts relay their assessment of current and emerging law enforcement challenges facing the North American Arctic.

**Panel Description:** This panel will seek to comprehensively address internally sourced challenges as well as security concerns that arise from external regions.

**Planned moderator:** Nicole Borromeo, Executive Vice President and General Counsel, Alaska Federation of Natives, Anchorage, Alaska (Invited).

**Planned panelists:**

• **Supervisory Special Agent, Jeffery Peterson.** Federal Bureau of Investigation, Anchorage Alaska (Confirmed).

• **Dr. Mary Thompson-Jones,** Naval War College, Newport, Rhode Island (Confirmed).

• **Special Agent Michael Smith,** Customs & Border Protection, Anchorage, Alaska (Confirmed).

• **Mr. Troy Bouffard,** School of Management, UAF, Fairbanks, Alaska (Confirmed).

1030-1045: **Break.**

1045-1100: **Achieving Arctic Domain Awareness, Canada’s developing approach.** Dr. Paul Comeau, S&T Safety and Security DRDC’s Centre for Security Science Defence Research and Development Canada / Government of Canada, Ottawa, Canada.

1100-1145: **No Do Overs in the Arctic: Applied Research and Its Contributions to a Rapidly Changing Era.** An expert panel that seeks to illustrate the vital role applied research provides to security and defense of U.S. and Allied National Interests in the Arctic Region.
Panel Description: As described by a multi-disciplined panel of experts, as the Arctic remains perhaps was what could be described as an “economy of resource theater,” leveraging investments made by the U.S. and international research community could prove critical in protecting and preserving U.S. and Allied national interests.

Moderated by: Dr. Douglas Causey, ADAC Principal Investigator.

Planned Panelists:

- Professor Matt Calhoun, Alaska Native Science and Engineering Program, (ANSEP), University of Alaska Anchorage (Confirmed).
- Dr. Holly Dockery, Sandia National Laboratories, Albuquerque, New Mexico (Confirmed.)
- CAPT (Ret) Mike White, USCG, Pacific NW National Laboratories, Walla Walla Washington (Confirmed).

1145-1245: Allied and Partner Reflections on the challenges and opportunities of the Arctic region. America’s Arctic-minded allies and partners offer their reflections in assessing challenges and opportunities in gaining improved synergy in practical measures to improve overall security in the circumpolar North.

Panel description: A panel comprised of members from America’s Arctic Allies and partners, principally sourced from their respective Embassy to the U.S., reflecting on their concerns and suggestions to practically advance security and reduce risks to respective national interests across the Arctic region.

Moderated by: Jim Townsend, Former DASD Europe, Office of Secretary of Defense and Global Fellow, Polar Institute Wilson Center (Confirmed).

Planned panelists:

- COL Ólafur Ragnar Ólafsson, National Liaison Representative for Iceland, North Atlantic Treaty Organization/Headquarters Supreme Allied Commander Transformation (NATO/HQ SACT), Norfolk VA. (Confirmed).
- Senior Commander Tue Lippert, Danish Joint Arctic Command (Confirmed).
1245-1300: **Summary and overview of way forward.**
- Commander Alaska NORAD Region, Alaskan Command and 11th Air Force, Lt Gen Tom Bussiere, USAF.
- Supported by ADAC Executive Director Church Kee.

1300-1315: **Break,** followed by loading of buses for field activities at the UAF Poker Flats Research Range (PFRR).

1315-1745: **Travel to, participation in and return from field activities/demonstrations** at U.S. Army Corps of Engineers Cold Regions Research and Engineering Laboratory (CRREL) Permafrost Tunnel, followed by UAF Poker Flats Rocket Range (PFRR), plus UAF’s Alaska Center for Unmanned Aerial Systems Integration (ACUASI) demonstrations.

**Note:** Grab and go box lunches provided.

**Note:** Three Buses are planned.

- **Bus #1:** Takes participants unable to partake of the field activities back to hotel.
- **Bus #2:** Takes participants for UAF ACUASI demonstration, followed by Trans Alaska Pipeline stop, then Permafrost Tunnel, followed by PFRR, then hotels.
- **Bus #3:** Takes participants for UAF ACUASI demonstration, followed by Stop at Trans Alaska Pipeline, followed by PFRR, then Permafrost Tunnel, finally returning to hotels.

**Note:** ADAC is providing slip on garment protection for participants entering the Permafrost Tunnel.

1745 **Conclusion** of ALCOM Arctic Symposium 2019.

**AAS19 Administrative and logistics details.**

**Computer WiFi:** Please connect to UAlaska with the following network username/password:

- Network: UAlaska
- Username: AAS19Guest
Password: AAS2019

Emergency egress from Davis Concert Hall and Great Hall. Please depart through the rear doors from
the concert hall, out into the Great Hall, then out the main doors and rally in the adjoining courtyard.

Time Zone: AAS19 is conducted in Alaska Standard Time, one hour earlier than Pacific Standard
Time/four hours earlier than Eastern Standard Time.

Sunrise/Sunset: AAS19 Sunrise will be approximately 9:20 AM and Sunset 3:50 PM/Civil Twilight is
4:40 PM

Planning weather: The 14 day projection is for cold weather with occasional light snow, with a high of
12 degrees F and a low of 6 degrees F.

Links for the field activities: The UAF Geophysical Institute’s (UAF GI) Poker Flats Research Range
(PFRR), UAF GI’s Alaska Center for Unmanned Aerial Systems Integration (ACUASI) and the U.S. Army
Corps of Engineers Cold Regions Research and Engineering Laboratory Permafrost Tunnel (USACE
CRREL PFT) information links are provided for additional information.

- PFRR: https://www.pfrr.alaska.edu/
- ACUASI: https://acuasi.alaska.edu/
- USACE CRREL PFT: https://www.thealaskalife.com/blog/permafrost-tunnel-fairbanks-alaska/

Registration Payment: Participants have several options to make payment for registration:

1. Pay via credit card prior to the symposium at this link (secure meeting all PCI
   compliance): https://epay.alaska.edu/C21563_upay/web/home.jsp Note: Some government
   firewalls are blocking the ability so might need to do this outside the office. Receipt will be
   generated at time of payment.
2. Pay via check either before or at the symposium; please make checks out to University of
   Alaska Anchorage. If mailing, please send to the following address:

   University of Alaska Anchorage
   c/o Heather Paulsen
   3211 Providence Drive
   BOC 203
   Anchorage, AK 99508

3. Pay via cash at the symposium.

Receipts will be available for options 2 or 3. We are encouraging if at all possible individuals to use
option 1 or let us know a check is forthcoming prior to symposium. ADAC is trying to avoid 200
people trying to make payment the day of the symposium.

If any participants have problems making payment, please contact Heather Paulsen at 907-786-
1663 or h paulsen@alaska.edu and she can work individually to resolve.
Note for Government employees from Alaska Command:

ALCON,

- With regard to those federal employees requesting a waiver of the registration fee...please know the fee is a reimbursable expense. As such, I recommend the below guidance as determined by ALCOM JA legal review:

- AFMAN 65-605VI (24 Oct 2018) states in paragraph 4.55, in part, “Conferences, symposiums, and similar meetings [...] may employ a contractor, through normal acquisition procedures, for the purpose of handling the administrative arrangements. DoD, non-DoD Federal, and non-government personnel may be charged a registration fee by the contractor to cover costs associated with the contract [...] The contractor collects all registration fees.

- This registration fee is a **reimbursable expense** on the travel voucher. However, any meals included in the fee will be deducted from the authorized per diem.”

- The $225 registration fee will provide meals during the conference. The $225.00 pays for breakfast on 13-15 November; Lunch on 13-15 November; and dinner 13-14 November.

- Travelers should be aware that the payment of the meals in advance, which is a personal expense, can only be reimbursed as a conference fee **OR** as meals and incidental allowance and, not both. A traveler who is reimbursed for both the conference registration fee (meals) and full meals and incidentals could result in an overpayment to the traveler. Please make sure to adjust your per diem accordingly to prevent over payment.

**Transportation Plan for Departing UAF for field activities on 15 Nov 2019. Times reflected in civilian format for bus drivers.**

- Bus 1 departs UAF at 1:15 PM and goes to hotels to drop off folks unable to join the tours

- Bus 2 departs UAF Great Hall pickup at 1:15 PM
  - Arrives ACUASI demonstration, West Ridge UAF at 1:25 PM
  - Conducts ACUSAI demonstration from 1:30-2:00 PM
  - Departs for PFRR at 2:00 PM
  - Stops at Pipeline for 5 min photo snap.
  - Arrives PFRR at 2:50 PM
    - Conducts PFRR tour from 2:50 to 3:50 PM
  - Departs for Permafrost Tunnel at 3:50 PM
  - Arrives Permafrost Tunnel at 4:20 PM
    - Conducts Permafrost Tunnel Tour from 4:20-5:20 PM
  - Departs Permafrost Tunnel Tour at 5:20 PM
  - Arrives back to Fairbanks Hotels at approximately 5:45 PM
- Bus 3 departs UAF Great Hall pickup at 1:15 PM
- Arrives ACUASI demonstration, West Ridge UAF at 1:25 PM
- Conducts ACUSAI demonstration from 1:30-2:00 PM
- Depart for Permafrost Tunnel at 2:00 PM
- Arrive at Permafrost Tunnel Tour from 2:30 PM
- Conduct Permafrost Tunnel Tour from 2:30-3:30 PM
- Departs for PFRR at 3:30 PM
- Stops at Pipeline for 5 min photo snap
- Arrives at PFRR at 4:00 PM
  - Conducts PFRR tour from 4:00-5 PM
- Departs PFRR at 5:00 PM
- Arrives back Fairbanks Hotels at approximately 5:45 PM.

**Map of UAF Campus:** Note, Blue outline indicates UAF Geophysical Institute Elvey Auditorium for ADSO-ES and Red outline indicates Great Hall and Davis Concert Hall for AAS19.

**Expanded Zoom Meeting instructions (principally for Senator Sullivan’s video conference):**
Conclusion

AAS19 will improve participants' understanding of the challenges in the complicated risk environment that describes the new circumpolar north. This will be accomplished via a series of thoughtful discussions and activities to gain insights for needed solutions to address and potentially reduce the associated defense and security risks. AAS19 will continue the momentum started with AMS18 and advanced through ASLS19, setting the stage for the next Arctic Senior Leader Summit in early 2020.