**DRAFT ARHC Agenda**

 *Anchorage - ~~Nome~~*

*August 2020*

*Meeting cheat sheet*

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| --- | --- | --- | --- | --- |
| **Mon, Aug 10** | **Tue, Aug 11** | **Wed, Aug 12** | **Thurs, Aug 13** | **Fri, Aug 14** |
| **Travel to Anchorage, AK** | BREAKFAST: TBD  | BREAKFAST: TBD  | BREAKFAST: TBD  | BREAKFAST: TBD  |
| *Arctic Science Forum* | *Arctic Science Forum* | *ARHC Day 1* | *ARHC Day 2* |
| WORKING LUNCH: TBD | WORKING LUNCH: TBD | WORKING LUNCH: TBD | WORKING LUNCH: TBD |
| *Arctic Science Forum* | *Field Trip* | *ARHC Day 1* | *ARHC Day 2* |
| EVENING EVENT: *Ice-Breaker & Dinner* | EVENING EVENT: *TBD Socal Event* | EVENING EVENT: *Reception at Alaska Native Heritage Center* | EVENING EVENT: *TBD* | **End of ARHC Meeting**  |

 *Notes:*

* *7-April-20; Revamped to remove Nome from schedule following call with Admiral Smith on 2-April.*
* *As of yet, no speakers are confirmed or invited, this is just a framework to start the discussion and establish a story arc for the meeting*

**Arctic Science Forum, Tuesday August 11th, 2020**

*Anchorage, AK*

*Unless otherwise noted all presentations are 20 minutes (15 minute talk, 5 minutes for questions)*

**08:00 - 09:00 - Breakfast & Registration (TBD)**

**09:00 - 09:40 - Welcome, Introductions, and Logistical Updates**

* Rear Admiral Shepard “Shep” Smith, NOAA
* Land acknowledgement & invocation
	+ Proposed: Greg Razo, [CIRI](https://www.ciri.com/)
* Introductions of ARHC Member Representatives

**09:40 - 11:00; The People of the American Arctic**

*Local perspectives on the Alaskan Arctic followed by discussion. Understanding the people that call this region home, and the economic and subsistence activities that sustain them.*

* Alaskan Federation of Natives ([AFN](https://www.nativefederation.org/)), Julie Kitka
* Arctic Slope Regional Corporation ([ASRC](https://www.asrc.com/)), Rex Roch
* Bering Straits Native Corporation ([BSNC](https://beringstraits.com/)), Gail Schubert
* *Panel discussion, 20 minutes*

**11:00 - 11:15; Break**

**11:15 - 12:00; Vessel Traffic in the American Arctic**

*What is the current state of vessel traffic in the American Arctic, and what problems still need to be solved?*

* NOAA Coast Survey, LCDR Bart Buesseler
	+ How commerce flows in Alaska, an overview of the vessel traffic currently operating in the region
* Arctic Domain Awareness Center (ADAC), Maj. Gen. “Church” Kee (USAF, Ret.)
	+ What is domain awareness and where are we headed?

**12:00 - 13:00; Working Lunch (TBD)**

**12:00 - 13:10; Supporting Vessel Traffic in the Arctic via Charting Solutions**

*As vessel traffic increases in the Arctic, what successes have we had utilizing Marine Spatial Data Infrastructure (MSDI) and how are we moving forward?*

* USCG *30 minutes*
	+ Overview of USCG operations in the Arctic (RADM Bell?)
		- What data does USCG need to operate safely & promote safety?
			* Polar code implications
	+ The PARS success story and path forward in the Arctic (TBD)
		- How to make a fixed route that takes into account ice, subsistence activities, and industry objectives
* Marine Exchange of Alaska, Capt. Ed Page (USCG, Ret.)
	+ Developing an AIS network to provide maritime domain awareness in Alaska
		- Highlight traffic successes seen from PARS / ATBAs from vessel tracking
	+ Leveraging AIS technology to provide additional information
		- AIS Wx info (NWS partnership)
		- Possible dynamic Marine Protected Areas
* ARHC Member Presentation
	+ XXX Country’s approach to MSDI in the Arctic

**13:10 - 13:30; Break**

**13:30 - 14:50; Commerce in the Arctic**

*Changing conditions are opening the door for new business activities to take place in the Arctic. How are they planning to operate in this region and how can hydrographic data impact these opportunities?*

* Qilak LNG, Mead Treadwell
	+ Leveraging North Slope Natural Gas
* BOEM-Jim Kendall
	+ Importance of hydrography for evaluation prior to lease sales
		- Presidential Memorandum on EEZ resources
* NOAA Fisheries - Bob Foy?
	+ Looking out over the next ~10 years, where are the fisheries headed?
		- How might that change vessel traffic?
* ARHC Member Presentation
	+ XXX Country’s economic activity in the Arctic (Russian natural gas?)

**14:50 - 15:10; Break**

**15:10 - 16:30; Infrastructure in the American Arctic**

*What are the challenges and opportunities with regard to infrastructure within the region?*

* City of Nome, TBD
	+ An overview of Nome’s port expansion plans
* City of Unalaska, TBD
	+ What’s needed to support growing Arctic trade routes
* Private Engineering Firm, TBD
	+ What goes into designing and building nearshore/maritime facilities in the Arctic?
* USACE, Bruce Sexauer
	+ Building and maintaining maritime infrastructure in Alaska

**16:30 - 17:00; End of Day Wrap Up**

* ARHC Members around the horn
* Action Items?
* RDML Smith Remarks

**Arctic Science Forum, Wednesday August 12th, 2020**

*Anchorage, AK*

**08:00 - 09:00 - Breakfast**

**09:00 - 10:40; Developing Technology to Address the Challenges of Working in the Arctic**

*The Arctic is a demanding environment, how are we using and developing technology to address these challenges? What opportunities do we see for the future?*

* Terrasond
	+ UxS operations in Alaska
* Fugro
	+ SDB & Emerging Technology for surveying in the Arctic
* HydroBall & Citizen Science, Jaci Overbeck
	+ Creative solutions for surveying in the Arctic/Remote regions
* NOAA PMEL, Chris Meinig
	+ Using the Saildrone to expand capabilities for science and surveying
* ARHC Member Presentation
	+ XXX Country’s cool new tech for the Arctic

**10:40 - 11:00; Break**

**11:00 - 12:00; The need for Research in the Arctic**

*What do we currently know about the Arctic? How has current research and observation efforts expanded that knowledge?*

* ACCAP, Rick Thoman?
	+ The changing Arctic environment
* AOOS, Molly McCammon
	+ What don’t we know in the Arctic? Summary of observation efforts in the Arctic
	+ Tidal & Current modeling
* Seabed 2030 / IBCAO / Extended Continental Shelf
	+ Arctic progress and paths forward

**12:00 - 13:00; Working Lunch (TBD)**

**13:00 - 14:00; Ongoing Research in the Arctic Round**

*How can we integrate lessons learned from research into survey planning, charting products, or other navigational products?*

* IARC, Hajo Eicken
	+ Impacts of Arctic bathymetry for research
		- How does modeling react to improved bathymetry?
* UAF CFOS, Seth Danielson
	+ How can HF radar improve our knowledge of tides and currents?
* ARHC Member Presentation
	+ XXX Country’s research efforts in the Arctic

**14:00 - 14:30; Arctic Science Forum Wrap Up**

* ARHC Members around the horn
* Action Items?
* RDML Smith Remarks
	+ Logistics for afternoon field trip

**14:30 - 15:00; Break**

**15:00 - 19:00; Field Trip and Reception**

*A field trip to get out of the hotel and see a little bit of town. Current proposal:*

* Depart Marriott and take bus to Port of Alaska (POA) for a tour of facility and tide gauge (*~1 hour*)
	+ Discuss challenges of tide gauge in ice
* Depart POA and head to [*scenic location*] to get outside and hopefully spot some wildlife (*~1 hour*)
	+ Ideas:
		- Potter Marsh
		- Earthquake Park
		- Point Woronzof
		- Westchester Lagoon / Coastal Trail
* Depart [scenic location] for Alaska Native Heritage Center ([link](https://www.alaskanative.net/)) and evening’s activities (*~2 hours*)
	+ Cultural demonstration
	+ Reception/dinner
* Backup location for reception:
	+ Rasmussen Museum ([link](https://www.anchoragemuseum.org/))

**Backup / Misc Notes**

Proposed topics/questions for Native Leader panel (11-Aug):

* + *What does the local economy of these communities look like?*
	+ *How do communities interact with development projects? (i.e. Oil & Gas, shipping)*
		- *How do we do this together?*
	+ *What is “infrastructure” for a coastal community? How is it responding to environmental changes?*
		- *Shoreline shifts*
		- *WL impacts*
		- *Moving communities*

Note: Removed Subsistence hunting in the Bering Straits Region with Brandon Ahmasuk due to meeting no longer being in Nome, but subsistence activities can be discussed during Native Leader panel & reception event at the Alaska Native Heritage Center.

Backup Speakers for Anchorage

* Saildrone, Heather Tapisola PMEL (moved into agenda)
* Vitus Towing (Tug & Barge)
* NGOs
* Isaac Vanderburg - Launch Alaska
* Bering Survey/Mapping Strategy
* Simon Kineen - North Pacific Fisheries Management Council Chair, NSEDC leadership

Other people to interact with in Nome:

* Interviews with Nome Nugget (newspaper) / KNOM radio
* Nome Eskimo Community (Tiffany Martinson-Executive Director and/or Jacob (tribal) and Teresa(climate change))
* Mayor

Themes

* Navigation (including logistics and resupply)
* Coastal Resilience
* ~~Fisheries~~
* economic/food/culture security

For reference, some prior examples of these one day seminars when the meeting was hosted in other ARHC states are here:

2017:<https://legacy.iho.int/mtg_docs/rhc/ArHC/ARHC7/Program_Ilulissat%20Maritime%20workshop%202017_ver3_Aug.pdf>

2018: <https://iho.int/uploads/user/Inter-Regional%20Coordination/RHC/ARHC/ARHC8/Program%20Open%20Forum%20ARHC8%20Conference%20vs%205%20September%202018.pdf>

Other ideas:

* we always beat on promoting Marine Spatial Data Infrastructure (MSDI) topics and Satellite Derived Bathymetry (SDB)/autonomous vehicles.
* Polar Code might be a good topic to start bringing up?
* Ground truthing of topics is always good- such as hearing how the PARS is going and any issues since I believe it was adopted. It is good to hear from the people who are on the ground, talking about their needs and issues from which hopefully valuable ideas for engagement come up.
* I've felt the Arctic University network is something we need to be partnering with better, if there is indeed merit.
* Maybe what usage growth do you see and anticipate with polar traffic- a view from Alaska principals.?
* Coast Guard? Search and Rescue? management challenges ? future development projects/infrastructure expansion?
* Arctic Council EPPR intro 101?
* Dynamic Marine Protected Areas (MSDI)