ADAC Program Year 7
Annual Meeting

“Finish and Forward...in support of the future Arctic”
2-3 June 2020

Via Zoom Virtual Meeting/Conference Call
Overview

The Arctic Domain Awareness Center (ADAC) is a U.S. Department of Homeland Security, Science and Technology (S&T) Directorate’s Office University Programs, (OUP) Center of Excellence in Maritime Research hosted by the University of Alaska. In accordance with ADAC’s Year 7 Work Plan ADAC is planning its associated Annual Meeting. While these meetings are normally conducted at Headquarters U.S. Coast Guard, this year’s meeting will be conducted via conference call, due to on-going COVID-19 health concerns.

This Annual meeting seeks to facilitate interaction with the following entities:
- U.S. Coast Guard Project Champions,
- U.S. Coast Guard Stakeholders and advocates,
- Other DHS maritime mission communities,
- U.S. Federal officials,
- State of Alaska and local officials,
- Academic/research and industry professionals from across the U.S.
- International partners and collaborators

Despite transitioning from in-place to a conference call medium, the Annual Meeting theme is “Finish and Forward...in support of the future Arctic”...which is planned as a summary review of the Center’s current research endeavors and conducting discussions to foster USCG and our partner community’s thinking in better leveraging ADAC in upcoming Program Year 8 and beyond, to include aspects of transition and commercialization as suitable. “Finish” is associated with the DHS S&T OUP Cooperative Agreement that will conclude on 30 June 2022 in accordance with the Notice of Funding Award and “Forward” is oriented to ADAC’s plan to transition to alternative arrangements on 1 July 2022 and onward.

As in prior years, the agenda will include a summary discussion regarding the transition of ADAC’s mature research and the initiation of new research associated with ADAC’s recently awarded projects during Program Year 7.

ADAC is honored to welcome reflections from DHS S&T, U.S. Coast Guard, DoD’s Alaskan Command, the U.S. Arctic Research Commission and Interagency Arctic Policy Research Committee VIP leadership for this session.

This extended conference call is open to all of ADAC’s “customers and partners” across the United States and includes ADAC’s international collaborators.

ADAC currently plans to host this meeting via (Zoom) conference call.

ADAC plans an opening welcome from University of Alaska Anchorage Interim Chancellor, Dr. Bruce Schultz to kick-off the meeting.

During the meeting ADAC is honored to host the following distinguished speakers:
1. **VADM Scott Buschman**, USCG, Deputy Commandant for Operations, HQ USCG, Washington D.C.

3. **RADM Peter Gautier, USCG**, Deputy Commander, USCG Pacific Area, Alameda, California.


5. **Dr. Larry Hinzman**, Executive Director, Interagency Arctic Research Policy Committee, Washington D.C.


Following VIP remarks, and similar to ADAC’s quarterly “Customers and Partners” Roundtable, ADAC Leadership will initiate an overview of Center efforts (which include ongoing Center activity, including completed and planned workshops/events), followed by current project by project presentations. As available and if/as desired, ADAC is reserving time for each project session to allow for USCG Project Champion reflections/directions.

ADAC is planning to post important project materials in advance of this “virtual” Annual meeting to ADAC’s website. ADAC is planning to finalize these materials in advance of the event.

Currently, ADAC is planning the following materials to be posted to support all participant background information.

ADAC’s advanced project by project materials planned for the Annual Event Hub include:
1. Updated Project Video (which explains the project research and application).
2. A pdf copy of the Project Investigator’s PowerPoint presentation.
3. A short video of the Project Investigator discussing/presenting the associated PowerPoint viewgraphs.

Agenda details follow:

**ADAC “Virtual” Program Year 7 Annual Meeting, 2-3 June 2021.**

**Conference Call information (Conferencing via Zoom)**

**Meeting links:**

**Day 1 Link:**

![Join Zoom Meeting](attachment:joinZoomMeeting.png)
Day 2 Link:

Join Zoom Meeting
ID: 84612287465
Passcode: 535104
(US) +1 301-715-8592
Passcode: 535104
84612287465@zoomcrc.com
Passcode: 535104

Meeting Agenda 2 June 2021

Note both Alaska Daylight Time (AKDT) and Eastern Daylight Time (EDT) are presented. AKDT is four hours earlier than EDT.

7:00-7:10 AM AKDT
11:00-11:10 AM EDT: **Welcome** by University of Alaska Anchorage Interim Chancellor, **Dr. Bruce Schultz**, followed by very brief overview of Virtual meeting by ADAC Executive Director (ED), Maj Gen (Ret) Church Kee.

7:10-7:30 AM AKDT
11:10-11:30 AM EDT: **Guest speaker**: Reflections on DHS S&T maritime collaboration and innovation needs. Remarks by **Mr. Robert Burns**, Director, DHS S&T Office of Innovations and Collaborations.

7:30-8:10 AM AKDT
11:30-12:10 AM EDT: **Guest speaker panel**: Brief reflections on the emerging Arctic Science and Research needs and how organizations such as ADAC contribute. Remarks by **Mr. David Kennedy**, Chairman, U.S. Arctic Research Commission, **Dr. Larry Hinzman**, Executive Director, Interagency Arctic Research Policy Committee and **Mr. John Murphy, Col, USAF** (Ret), Chief of Operations, National Weather Service, Washington, D.C.
8:10-8:30 AM AKDT
12:10-12:30 PM EDT:  **ADAC PI and RD reflections** by ADAC, Principal Investigator (PI) and Research Director (RD):
Dr. Douglas Causey.
Dr. Nettie Labelle-Hamer.

8:30-9:30 AM AKDT
12:30-1:30 PM EDT:  **Propeller Driven Long Range Autonomous Underwater Vehicle (LRAUV) System,** Ms. Amy Kukulya, Dr. Jim Bellingham Woods Hole Oceanographic Institution and Mr. Brett Hobson, Monterey Bay Aquarium Research Institute.

9:30-9:40 AM AKDT
1:30-1:40 PM EDT:  Reflections from LRAUV HQ USCG Project Champion, CAPT Kirsten Trego, USCG, with support by LT Omar Borges, USCG.

9:40-10:30 AM AKDT
1:40-2:30 PM EDT:  **Oil Spill Modeling for Improved Response to Arctic Maritime Spills: The Path Forward.** Dr. Nancy Kinner, University of New Hampshire, Coastal Response Research Center, Center for Spills in the Environment.

10:30-10:40 AM AKDT
2:30-2:40 PM EDT:  Reflections from Project Champion, CAPT Kirsten Trego, USCG.

10:40-10:50 AM AKDT
2:40-2:50 PM EDT:  Break

10:50-11:40 AM AKDT
2:50-3:40 PM EDT:  **Mitigating the Damage to Arctic Copepods from Surface Oil Spills: When to Apply Dispersants.** Dr. Chris Aeppli and Dr. David Fields, Bigelow Laboratory for Ocean Sciences.

11:40-11:50 AM AKDT
3:40-3:50 PM EDT:  Reflections from Project Champion, CAPT Kirsten Trego, USCG.

11:50 AM-12:40 PM AKDT
3:50-4:40 PM EDT:  **Photo-enhanced toxicity of dispersed and burned crude oil to Arctic mussels.** Dr. Pat Tomco, University of Alaska Anchorage College of Arts and Sciences.

12:40-12:50 PM AKDT
4:40-4:50 PM EDT:  Reflections from Project Champion, LCDR Clifton Graham, USCG.
12:50-1:10 PM AKDT
4:50-5:10 PM EDT:  **ADAC Education Program Update**, Ms. Ellee Matthews, ADAC Education and Administrative Manager and ADAC Fellows to be announced.

1:10-1:30 PM AKDT
5:10-5:30 PM EDT  **Arctic Summer Intern Program (ASIP)** ADAC EAM, Ms. Ellee Matthews, and Dr Craig Tweedie, UTEP.

1:30-1:35 PM AKDT
5:30-5:35 PM EDT:  Concluding remarks for Day #1.

1:35 PM AKDT
5:35 PM EDT:  Close of ADAC Annual Meeting Day 1.

**Meeting Agenda 3 June 2021**

6:30-6:35 AM AKDT
10:30-10:35 EDT:  Welcome back for Day #2 by ADAC leadership

6:35-7:15 AM AKDT
10:35-11:15 PM EDT:  **Marine Induced Polarization Methods for the Detection and Mapping of Oil in an Arctic Marine Oil Spill, including investigation of Oil within and under broken ice fields.** Dr. Scott Socolofsky, Texas A&M University and Ms. Kari Walker, Induced Polarization Associates, LLC.

7:15-7:25 AM AKDT
11:15-11:25 PM EDT:  Reflections from Project Champion, Lt Evan Richter USCG.

7:25-7:30 AM AKDT
11:25-11:30 AM EDT:  **Short reset** break, and introductions for the following VIP event.

7:30-7:50 AM AKDT

7:50-8:40 AM AKDT
11:50 AM-12:40 PM EDT  **Arctic Ice Conditions Index (ARCTICE) with additional inputs for Great Lakes Ice Conditions Index**, Dr. Jifeng Peng, Dr. Shawn Butler and Kelsey Frazier, UAA.

8:40-8:50 AM AKDT
12:40-12:50 PM EDT:  Reflections from Project Champion, CDR Christopher Tuckey/his designee, HQ U.S. Coast Guard.
8:50-9:10 AM AKDT
12:50-1:10 PM EDT: **Guest Speaker:** HQ USCG Remarks on research that benefits U.S. Coast Guard Arctic Strategic Outlook and Maritime Commerce Strategic Outlook. Remarks by RADM Peter Gautier, USCG, Deputy Commander, USCG Pacific Area, Alameda, California

9:10-9:20 AM AKDT
1:10-1:20 PM EDT: **Arctic Vessel Monitoring Geofencing/Alert Awareness:**
Dr. Shawn Butler, ADAC and College of Engineering UAA.

10:10-10:20 AM AKDT
2:10-2:20 PM EDT: **Remote Unmanned Aircraft System (UAS) Inspection and Response Team Development in the Bering Strait Region.**
Dr. Jessica Garron, Alaska Center of Unmanned Aerial Systems Integration, (ACUASI), University of Alaska Fairbanks (UAF). Mr. John P. Henry (Native Village of Unalakleet (NVU)) Alaska and Ms. Margaret Hall (Model Forest Policy Program (MFPP), Priest Lake Idaho).

11:00-11:10 AM AKDT
3:00-3:10 PM EDT: **Alaska and Arctic Maritime Communications and Connectivity Analysis (AAMC&CA).**
Dr. Mark Ivey, Sandia National Labs, Mr. Jason Roe, ADAC and Dr. Doug Causey, ADAC, University of Alaska Anchorage.

12:00-12:25 AM/EDT
4:00–4:25 PM EDT: *Arctic Facilities and Infrastructure Environmental Change Risk Index*. Dr. Craig Tweedie University of Texas El Paso and Dr. Matt Calhoun, UAA College of Engineering.

12:25-12:35 PM AKDT
4:25-4:35 PM EDT: Reflections from Project Champions, Ms. Galia Kaplan and MSTC Douglas Furman, USCG.

12:35-12:55 PM AKDT
4:35-4:55 PM EDT: ADAC Fiscal Review by Financial Director, Ms. Heather Paulsen, University of Alaska Anchorage

12:55-1:00 PM AKDT
4:55-5:00 PM EDT: **Short reset** break, and introductions for the following VIP event.

1:00-1:30 PM AKDT
5:00-5:30 PM EDT: Closing address, [VADM Scott Buschman](mailto: ), USCG, Deputy Commandant for Operations, HQ USCG, Washington D.C.

1:30-1:35 PM AKDT
5:30-5:35 PM EDT: Closing thanks and invitation to extracurricular event by ADAC ED

1:40 PM AKDT
5:40 PM EDT: **Close of ADAC Annual Meeting**

**1:45 PM AKDT**
**5:45 PM EDT:** ADAC Annual Meeting Extracurricular event

1:45-2:10 PM AKDT
5:45-6:10 PM EDT: Review of *Arctic All Hazards GIS Platform*: Dr. Marcus Boyd, researcher affiliated with the Study of Terrorism and Responses to Terrorism (START), Emeritus DHS CoE, and University of Maryland.

2:10-2:30 PM AKDT
6:10-6:30 PM EDT: Review of recorded inputs from *ADAC Executive Counselors*.

2:30-2:50 PM AKDT
6:30-6:50 PM EDT: **Overview of Program Year 8 and beyond by ADAC ED**

**2:50 PM AKDT**
**6:50 PM EDT:** Close of ADAC Annual Meeting Extracurricular event
ADAC Contact:
For more information, contact ADAC Executive Director, Randy “Church” Kee at rakee@alaska.edu or (907) 885-8324.