

Workshop on Future Directions for Arctic Research Logistics

7-9 October 2013

Hilton Arlington • 950 North Stafford Street • Arlington, Virginia

Tentative Agenda

This meeting will follow an adaptive model for the agenda; we will adjust times, sessions, and specific topics as needed throughout the meeting.

SUNDAY, 6 OCTOBER 2013

Registration and materials pick-up available 6:30-8:00 pm outside Gallery II/III meeting room.

MONDAY, 7 OCTOBER 2013

All workshop plenary sessions held in Gallery II/III Meeting Room (Mezzanine Level).

7:45 am Registration and continental breakfast available

8:30 am **Plenary: Overview and Setting the Stage**

- 8:30 am: Welcome, purpose, and products of workshop (Jackie Richter-Menge, Cold Regions Research and Engineering Laboratory, Workshop Co-Chair)
- 8:40 am: Comments from the National Science Foundation (Simon Stephenson and Renée Crain, NSF Arctic Sciences; Jen Mercer, ALEX Alternative Experts)
- 9:10 am: Comments from the Interagency Arctic Research Policy Committee (Brendan P. Kelly, IARPC)
- 9:20 am: Changing science priorities and changing support needs (James Morison, Polar Science Center, Workshop Co-Chair)
- 9:40 am: Review of community survey results (Matthew Shupe, University of Colorado/NOAA, Workshop Organizing Committee member)
- 10:00 am: Plan for the day; details on Breakout Session I (Jackie Richter-Menge)

10:15 am Break

10:30 am **Breakout Session 1: A Shared Vision of Future Logistics Support**

Participants will be divided into six groups, each addressing the same topics.

Breakout group leads (Workshop Organizing Committee members):

- Group 1 lead: James Morison
- Group 2 lead: Jackie Richter-Menge
- Group 3 lead: Matthew Shupe
- Group 4 lead: Sophia Perdikaris
- Group 5 lead: Steve Oberbauer
- Group 6 lead: Peter Griffith

Breakout group discussion topics:

- Group members introduce themselves/ice-breaker, review meeting ground rules
- Envision Arctic field research 10 or 20 years from now in an ideal world (i.e., no funding constraints):
 - What does field research “look like”?
 - What logistics support is in place?
 - How is the support delivered?
 - How would it be the same or different from today?
 - How would we foster interdisciplinary science and system-level understanding?

12:00 pm Lunch (On your own)

1:15 pm Plenary: Breakout group reports, discussion, plan for afternoon

2:15 pm **Breakout Session 2: Logistics Needs for Arctic Domains**
Participants can select which breakout group to join. Break as needed.

Breakout groups:

- 1) Terrestrial (Group Lead: Steve Oberbauer)
- 2) Marine (Group Leads: Jackie Richter-Menge and James Morison)
- 3) Atmosphere (Group Lead: Matthew Shupe)
- 4) Social Sciences (Group Lead: Sophia Perdikaris)
- 5) Ice Sheets (Group Lead: Mary Albert)
- 6) Coastal (if needed) (Group Lead: Craig Tweedie)

Breakout group discussion questions:

- Introductions
- What’s needed in the long term (10-20 years) to do the best science? These can range from expensive, long-term needs to smaller, immediate needs.
- Are there logistics limitations that are preventing the best science? How do we overcome these limitations?
- How can we foster interdisciplinary science and system-level understanding through research and logistics support?
- Needs and recommendations should be phrased so that they are concrete, specific, and “actionable” (i.e., something can be done about it, rather than a vague goal).

4:00 pm Plenary: Breakout group reports, discussion, begin to highlight common themes or areas of disagreement

5:15 pm Adjourn for the day

TUESDAY, 8 OCTOBER 2013

8:00 am Continental Breakfast

8:30 am Plenary: Recap of yesterday, today's plans

9:00 am **Breakout Session 3: Logistics Needs, Research Tools & Platforms**
Participants can select which breakout group to join. Break as needed.

Breakout groups

- 1) Alaska sector (includes Toolik, Barrow, other hubs, and remote locations)
- 2) Greenland sector (includes Summit and remote locations)
- 3) Marine operations (includes research ships, oceanographic studies, etc.)
- 4) Ice camps (short term and long term, shore fast)
- 5) Autonomous platforms in ocean, air, ice, and land (AUV, UAS, buoys, automated stations, satellites, etc.)

Breakout group discussion questions:

- Introductions
- What's needed in the long term (10-20 years) to do the best science? These can range from expensive, long-term needs to smaller, immediate needs. Needs for interdisciplinary and system-level science should be considered.
- Are there logistics limitations that are preventing the best science? How do we overcome these limitations?
- Needs and recommendations should be phrased so that they are concrete, specific, and "actionable" (i.e., something can be done about it, rather than a vague goal).

11:00 am Plenary: Breakout group reports, discussion, plan for the afternoon; discuss format of workshop report/products

12:15 pm Lunch (On your own)

1:30 pm **Breakout Session 4: Cross-cutting Issues**
Participants can select which breakout group to join. Break as needed

Breakout groups:

- 1) Interagency coordination (including public and private sectors)
- 2) International coordination
- 3) High-level coordination of field opportunities and assets (e.g., improved communication)
- 4) Capacity building (e.g., training new researchers and logistics providers)
- 5) Maximizing safety and minimizing risk
- 6) Fostering interdisciplinary science and system-level understanding

Breakout group discussion questions:

- Introductions
- For each cross-cutting topic, what is the vision of the best-case scenario in 5-10 years?
- What steps or actions should be taken to achieve that vision?
- Needs and recommendations should be phrased so that they are concrete, specific, and “actionable” (i.e., something can be done about it, rather than a vague goal).

3:30 pm Plenary: Breakout group reports, discussion

5:00 pm Adjourn for day

5:30 pm Reception: The Front Page Restaurant
-6:45 pm (4201 Wilson Boulevard, 1 block from hotel)

WEDNESDAY, 9 OCTOBER 2013

8:00 am Continental Breakfast

8:30 am Morning Plenary: Recap of yesterday, today’s plans

9:00 am **Breakout Session 5: Synthesis and Prioritization**

Participants will be divided into groups, each group addressing the same topics.

- What are common themes, needs, or recommendations from the last two days of discussions?
- Do these themes and recommendations support the visions discussed during Breakout Session 1? Is something missing?
- What are specific and concrete ways to address the needs identified?
- What format/type of workshop product(s)/report would best capture and communicate the common themes and recommendations?

10:30 am Break

10:45 am Plenary: Report from breakouts, final workshop recommendations and key points

12:15 pm Wrap up: Plan for products, timeline, and responsibilities

12:30 pm Workshop adjourns

The Workshop Organizing Committee and a few additional participants will convene in the afternoon for writing/product development.