

Arctic Forum 2008
13–15 May 2008
National Association of Home Builders
Washington, DC
Final Agenda

Tipping Points—The Arctic and Global Change

The interconnectedness of the Arctic is demonstrated when a single change sends ripple effects throughout the arctic marine, terrestrial, atmospheric, socioeconomic, and global systems. These changes may be "tipping points" that represent a new, unknown, and potentially irreversible vanguard of arctic and global change. 2008 Arctic Forum sessions explored tipping points from environmental and socio-economic viewpoints, potential consequences and opportunities, and scientific, policy and management, and educational response strategies.

Wednesday, 14 May 2008

National Association of Home Builders

INTRODUCTION AND OVERVIEW

1:30 p.m. Welcome and Introductions

*Arctic Forum Co-Chairs
Craig Fleener
Gwich'in Council International*

*Martin Miles
Environmental Systems Analysis Research Center*

1:40 p.m. Arctic Climate Change: Where Reality Exceeds Expectations

*Mark Serreze
Cooperative Institute for Research in Environmental Sciences*

ENVIRONMENTAL TIPPING POINTS:

How is climate change affecting the arctic environment? Do these changes represent tipping points to a new state of the arctic system? What are the possible future scenarios and connections to the globe?

2:10 p.m. Arctic Sea Ice Now and in the Future

*Julienne Stroeve
National Snow and Ice Data Center*

2:35 p.m. Marine Mammals and Diminishing Ice: Slow Science on a Faster Earth

*Brendan P. Kelly
University of Alaska and the National Science Foundation*

3:00 p.m. Climate Change and Marine Mammal Conservation Policy

*Tim Regan
Marine Mammal Commission*

3:25 p.m. BREAK

3:50 p.m. Arctic Ocean Acidification: A Contemporary and Future View of Changes to the Marine Carbon Dioxide System

*Richard Bellerby
Bjerknes Centre for Climate Research*

4:15 p.m. Changes in Terrestrial Ecosystems in Response to a Decade of Warming

*Mads Forchhammer
University of Aarhus*

4:40 p.m. Panel Discussion: Environmental Tipping Points

1. How do we know a tipping point when it is happening? Are the current changes a tipping point?
2. How will the future Arctic be different?
3. Why do we care? How will this influence the lives of people living outside the Arctic?
4. What do we do about it? What new science and policy responses do we need to deal with the changes, and why?

Moderator:

Josh Schimel, University of California, Santa Barbara

Panelists:

Caspar Amman, National Center For Atmospheric Research

Martin Sommerkorn, WWF International Arctic Programme

Craig Fleener, Gwich'in Council International

Maribeth Murray, International Study of Arctic Change

5:50 p.m. Summary Remarks

Arctic Forum Co-Chairs

6:00 p.m. **Poster Session and Evening Reception:** Poster presentations on a wide range of arctic research, education, and outreach activities, with hosted bar and appetizers. Opening Poster Session remarks by Vera Alexander, President, ARCUS Board of Directors. Entertainment by "Atlantic Echo," Traditional Finnish Vocal Quartet.
9:00 p.m.

Thursday, 15 May 2008

National Association of Home Builders

8:00 a.m. Continental Breakfast

8:30 a.m. Welcome and Introductions

Arctic Forum Co-Chairs

Craig Fleener

Gwich'in Council International

Martin Miles

Environmental Systems Analysis Research Center

SOCIOECONOMIC TIPPING POINTS:

How is climate change affecting economic and social activity?

8:40 a.m. Well Adapted But Still Extinct: Norse Greenland in New Perspective

Tom McGovern

Hunter College

9:05 a.m. Arctic Health and a Changing Physical Environment: New Perspectives on Increased UVB, Ozone Depletion, and Increased Warming

Ed De Fabo

George Washington University

9:30 a.m. Coming to Terms with the Future of Northern Food Systems

Craig Gerlach

University of Alaska Fairbanks

9:55 a.m. Local Opportunities and Challenges from Arctic Climate Change: A Saami Perspective

Rune Fjellheim

Arctic Council Indigenous People's Secretariat

10:20 a.m. BREAK

10:45 a.m. Future Marine Transportation in the Russian Maritime Arctic

Lawson Brigham

U.S. Arctic Research Commission

11:10 a.m. Sovereignty and Security in the New Arctic: The Coming Blizzard

Robert Huebert

University of Calgary

11:35 a.m. LUNCH (Buffet lunch will be available for participants at NAHB)

Trip to AAAS Arctic Art Exhibition

The AAAS exhibit displays art by school children living in remote Siberian villages, including photographs and information on climate change in the Arctic. Traditional Siberian beaded vests were also on display. The works were part of the Woods Hole Research Center's Student Partners Project.

Young Investigator Career Development Lunch

An informal lunch meeting focused on career development issues for young investigators was scheduled from 11:35 a.m. - 1:30 p.m. (NAHB)

RESPONSE AND ADAPTATION:

What are the appropriate scientific, policy, outreach, and educational responses to potential tipping points?

1:30 p.m. New Approaches to Linking Scientific Synthesis, Policy, and Education

Charles Vörösmarty
University of New Hampshire

1:55 p.m. Development of Cyberinfrastructure During Rapid and Interconnected Change

Dan Lubin
National Science Foundation

2:20 p.m. Climate Change, Tipping Points, and the Media

Erika Engelhaupt
Environmental Science and Technology

2:45 p.m. U.S. Arctic Research Program Response to a Changing Arctic: Current and Future Goals

Mead Treadwell
U.S. Arctic Research Commission

3:10 p.m. BREAK

3:35 p.m. Panel Discussion: Priority Actions and Response Strategies

What are the three (3) highest priority actions—scientific, educational, management, or political—we should take to improve our ability to respond to these observed and predicted changes?

Moderator: *Peter Schlosser, Lamont-Doherty Earth Observatory*

Panelists:

Vera Alexander, University of Alaska Fairbanks
Max Holmes, Woods Hole Research Center
Robert Huebert, University of Calgary
Anya Suslova, Sakha Republic (Yakutia) State University
Simon Stephenson, National Science Foundation

5:00 p.m. Summary Remarks

Arctic Forum Co-Chairs

5:15 p.m. Arctic Forum Adjourns