

THE ARCTIC FORUM 2001

24-25 May 2001
Room: Ballroom A

Thirteenth Annual Meeting of ARCUS

23-25 May 2001
Sheraton Crystal City Hotel
Arlington, Virginia

Tentative Program

Thursday, 24 May 2001

8:00 a.m. Continental Breakfast

8:30 a.m. Welcome and introductions Arctic Forum Chair: John Hobbie
Marine Biological Laboratory

INTERACTIONS BETWEEN BIOLOGICAL AND PHYSICAL SYSTEMS IN THE ARCTIC

8:45 a.m. Research, Assessment, and the Importance of Interdisciplinary Arctic Science
Robert Corell
Atmospheric Policy Program
American Meteorological Society

9:30 a.m. Physical Changes in the Arctic and Their Affect on Animal Behavior and the
Subsistence Activities of Arctic Indigenous Peoples Charles H. Johnson
Executive Director
Alaska Nanuuq Commission

10:15 a.m. BREAK

10:45 a.m. Exchange of Greenhouse Gases Between Arctic Terrestrial Ecosystems and
the Atmosphere Torben Christensen
Climate Impacts Group, Department of Ecology
Lund University

11:15 a.m. Interactions Between Arctic Terrestrial Ecosystems and the Climate System
David McGuire
Institute of Arctic Biology
University of Alaska Fairbanks

11:45 a.m. Summation and discussion John Hobbie, chair

12:00 p.m. LUNCH

Arctic Forum, Thursday, 24 May 2001, continued

- 1:30 p.m. A Panel Discussion: Interactions Between Physical, Biological, and Human
Cultural Systems of the Arctic
Dave Klein, Panel Leader
Institute of Arctic Biology
University of Alaska Fairbanks
- Panelists:
Linkages between systems
David McGuire
Institute of Arctic Biology
University of Alaska Fairbanks
- Marine biological system response to change*
Sue Moore
National Marine Mammal Laboratory
National Oceanic and Atmospheric Administration
- Terrestrial biological system response to change*
Greg Henry
Department of Geography
University of British Columbia
- Arctic resident multi-system perspectives*
Taquilik Hepa
Department of Wildlife Management
North Slope Borough [Alaska]
- Human dependency on physical/biological systems of the Arctic, Eurasian
perspective*
Igor Krupnik
Arctic Studies Center
Smithsonian Institution
- 3:30 p.m. BREAK
- 4:00 p.m. Poster Session: Presenting Arctic Science
Ballroom B
Chair: Michael Retelle
Department of Geology
Bates College
- 5:00 p.m. Hosted Bar and Reception begins

ARCUS Annual Reception and Banquet

Reception: 5:30 p.m. – Ballroom B
Banquet: 6:30 p.m. – Ballroom C

Award Ceremony
ARCUS Award for Arctic Research Excellence

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- 8:00 a.m. Continental Breakfast
- 8:30 a.m. Welcome and Introductions Arctic Forum Chair: John Hobbie
Marine Biological Laboratory
- 8:40 a.m. *The ARCUS Award For Arctic Research Excellence*
Session Chair: Mark C. Serreze
Cooperative Institute for Research in Environmental Sciences
National Snow and Ice Data Center
University of Colorado
- 8:50 a.m. Interdisciplinary: *Reduced growth in Alaskan white spruce in the 20th Century
from temperature-induced drought stress* Valerie A. Barber
Institute of Marine Science and Forest Sciences Department
University of Alaska Fairbanks, Fairbanks, Alaska
- 9:10 a.m. Social Sciences: *Contributions of traditional knowledge to understanding
climate change in the Canadian Arctic* Dyanna Jolly [Riedlinger]
Natural Resources Institute
University of Manitoba, Winnipeg, Manitoba, Canada
- 9:30 a.m. Life Sciences: *Concurrent density dependence and independence in populations
of arctic ground squirrels* Tim Karels
Division of Life Sciences
University of Toronto at Scarborough, Ontario, Canada
- 9:50 a.m. Physical Sciences: *Mapping thermal and hydrological conditions beneath a
polythermal glacier with radio-echo sounding* Luke Copland
Department of Earth and Atmospheric Sciences
University of Alberta, Edmonton, Alberta, Canada
- 10:10 a.m. Comments on the Award for Arctic Research Excellence Mark Serreze
- 10:15 a.m. BREAK

Arctic Forum, Friday, 25 May 2001, continued

**INTERACTIONS BETWEEN BIOLOGICAL AND PHYSICAL
SYSTEMS IN THE ARCTIC**

- 10:45 a.m. Introduction of Session Arctic Forum Chair: John Hobbie
- 10:55 a.m. The SCICEX Database Project (SDP) - Developing An Interactive Arctic
Environmental GIS Paul A. Bienhoff
Applied Physics Laboratory Undersea Systems
Johns Hopkins University
- 11:20 a.m. Geographic Information Infrastructures: Applications for Science and Policy
Mark Sorensen
Geographic Planning Collaborative, Inc
- 11:45 a.m. Bridging Science and Policy Anthony C. Janetos
Senior Vice President for Program
World Resources Institute
- 12:30 p.m. LUNCH
- 1:30 p.m. The Influence of Hydrologic Change on Arctic Biology
John Hobbie (presenting)
and Bruce Peterson
The Ecosystems Center, Marine Biological Laboratory
- 1:55 p.m. Ecosystem Change in the Northern Bering Sea Lee W. Cooper (presenting)
and Jackie M. Grebmeier
Department of Ecology and Evolutionary Biology
The University of Tennessee
- 2:20 p.m. BREAK
- 2:45 p.m. The Arctic Oscillation as the Driver of Spring Warmings James E. Overland
Pacific Marine Environmental Laboratory
National Oceanic and Atmospheric Administration
- 3:10 p.m. Humans and the Arctic Environment: Changing Roles, Changing Research
Henry P. Huntington
Huntington Consulting
- 3:35 p.m. Summation and acknowledgements for Arctic Forum John Hobbie
Marine Biological Laboratory
- 3:45 p.m. Adjourn Arctic Forum