

# Arctic Workshop 2006

## Overview and History

The 36<sup>th</sup> Annual International Arctic Workshop will be held 16 - 18 March, 2006, at the Institute of Arctic and Alpine Research (INSTAAR), University of Colorado at Boulder. This workshop has grown out of a series of informal annual meetings started by John T. Andrews and sponsored by INSTAAR and other academic institutions worldwide. In keeping with this tradition, there are no formalized topics and the workshop has been organized around themes developed from the abstracts submitted.

## Web site

<http://www.colorado.edu/INSTAAR/AW/>

## Workshop Location

Most of the meeting will be held in two rooms in adjacent buildings on the CU-Boulder East Campus: Bldg. RL-1, also called "LITR", and Bldg. RL-3, also called "ARCE". A room on main campus will be used for the keynote and dinner on Friday evening.

### **RL-1, two stories tall, 1560 30<sup>th</sup> St., 2<sup>nd</sup> Floor Conference Rm. 269.**

- Icebreaker, check-in, and registration on Wednesday evening 5 -8 pm.
- Breakfast and poster session on Friday 8:30-12 in adjacent 2<sup>nd</sup> Floor hallways.
- Box lunch on Friday 12 pm, after the poster session.
- Informal meeting space anytime during the workshop.

### **RL-3, six stories tall, 3100 Marine St., 6<sup>th</sup> Floor Auditorium Rm. 620.**

- Check-in and registration on Thursday 8 - 8:30am.
- Oral presentations on Thursday (all day) and Friday (afternoon).
- Oral presentations on Saturday (morning).

### **University Memorial Center (UMC), Main Campus, Rm. 235.**

- Keynote address and dinner on Friday evening.

## Registration

Please check in or register on (1) Wednesday evening in Room 269 in Bldg. RL-1 at the Icebreaker between 5 - 8pm, or (2) Thursday morning between 8 - 8:30am in RL-3 Rm. 620. At registration you will receive the Program and Abstracts, as well as other workshop information.

## Posters

At registration you will receive information on where to set up your poster. Please put it up as early as possible, and leave it up as late as possible during the workshop.

## PowerPoint Files

Please load your presentation onto our computer during the Icebreaker on Wednesday 5-8pm or the Check-in/registration on Thursday 8-8:30am. Time during breaks is limited.

## NSF Support

The Arctic Natural Sciences Program at the National Science Foundation's Office of Polar Programs (NSF-OPP-ARC-ANS) supports student participation in the Workshop through a 3-year grant to INSTAAR (OPP 0425387).



## Program Summary

WEDNESDAY 15 MARCH 2006		
5:00 - 8:00pm	<b>Icebreaker, Check in, &amp; Registration</b> (Hors d'oeuvres, beer, wine, and soft drinks will be served; load PowerPoint presentations)	RL-1 Rm. 269
THURSDAY 16 MARCH		
8:00 – 8:30am	<b>Check-in &amp; Registration</b> (load PowerPoint presentations)	RL-3 Rm. 620
8:45	<b>Workshop Welcome &amp; Introduction</b>	RL-3 Rm. 620
9:00	<b>Lacustrine Records 1</b>	“
10:15	Morning Break	“
10:30	<b>Modern Arctic Environmental Change</b>	“
12:00pm	Lunch break (meal not provided)	your choice
1:30	<b>Marine Records</b>	“
2:45	Afternoon Break	“
3:00	<b>Glacial History 1</b>	“
3:45	Afternoon Break	“
4:00	<b>Glacial History 2</b>	“
5:00	End of Day	
5:30 – 8:00	<b>Student Pizza and Beer Party</b> (students only)	RL-1 Rm. 269
FRIDAY 17 MARCH		
8:30am	Continental Breakfast provided	RL-1 Rm. 269
8:30	<b>Posters</b>	RL-1 2 <sup>nd</sup> floor
12:00pm	Box Lunch provided	RL-1 Rm. 269
1:15	<b>Atmospheric &amp; Meteorologic Processes</b>	RL-3 Rm. 620
2:15	Afternoon Break	“
2:30	<b>Human Dimensions &amp; Archeology 1</b>	“
3:30	Afternoon Break	“
3:45	<b>Human Dimensions &amp; Archeology 2</b>	“
4:30	End of Main Sessions	
5:30 – 10:00	<b>Workshop Dinner provided</b> (Hors d'oeuvres, meal, beer, wine, soft drinks)	University Memorial Center (UMC), main campus. Rm. 235
5:00	Bus pickup at INSTAAR	
5:15 & 5:30	Bus pickup at Boulder Inn Best Western.	
6:00	<b>Keynote: Ray Bradley</b> “Global Warming and Washington Heat”	UMC Rm. 235
9:30 & 10:00	Bus from UMC to Boulder Inn Best Western	UMC
SATURDAY 18 MARCH		
8:30am	<b>Lacustrine Records 2</b>	RL-3 Rm. 620
9:30	Morning Break	“
9:45	<b>Lacustrine Records 3</b>	“
10:45	Morning Break	“
11:00	<b>Glaciology 1</b>	“
11:45	Final Morning Break	“
12:00pm	<b>Glaciology 2</b>	“
1:00	End of Meeting! <i>Thanks for attending. See you in Iceland in 2007.</i>	

# Program

## PM WEDNESDAY 15 MARCH 2006

- 5:00 to **Icebreaker, Check in, & Registration**  
8:00pm Hors d'oeuvres, beer, wine, and soft drinks will be served;  
Please load PowerPoint presentations onto our computer.  
INSTAAR Conference Room, Bldg. RL-1, Rm. 269

## AM THURSDAY 16 MARCH 2006

- 08:00am **Check-in & Registration**  
(Load PowerPoint presentations onto our computer)  
INSTAAR Auditorium, Bldg. RL-3, Rm. 620
- 08:45 **Workshop Welcome & Introduction**  
INSTAAR Auditorium, Bldg. RL-3, Rm. 620  
James Syvitski (INSTAAR Director)  
Tad Pfeffer (Workshop Director)

## Lacustrine Records 1


Thurs. am Chair: Jason Briner

- 09:00 **VISIBLE REFLECTANCE SPECTROSCOPY IN ARCTIC PALEOECOLOGY**  
Wolfe, Alexander P; Michelutti, Neal; Vinebrooke, Rolf; Rivard, Ben
- 09:15 **INFERRED PALEOTEMPERATURES FROM HANGING LAKE, YUKON TERRITORY:  
A CHIRONOMID COMMUNITY PERSPECTIVE ON BERINGIAN CLIMATE**  
Kurek, Joshua; Cwynar, Les C
- 09:30 **HYDROLOGICAL VARIABILITY SINCE AD 1533 RECONSTRUCTED FROM A  
MEROMICTIC LAKE AT THE NORTHERN EXTREME OF THE CANADIAN HIGH  
ARCTIC**  
Tomkins, Jessica D; Lamoureux, Scott F; Antoniades, Dermot; Vincent, Warwick F
- 09:45 **LIMNOLOGY, SEDIMENTOLOGY, AND HYDROLOGY OF A JÖKULHLAUP INTO A  
MEROMICTIC HIGH ARCTIC LAKE**  
Lewis, Ted; Francus, Pierre; Bradley, Raymond S.
- 10:00 **HIGH-RESOLUTION HOLOCENE PALEOMAGNETIC SECULAR VARIATION  
RECORDS FROM ICELAND: TOWARDS MARINE - TERRESTRIAL  
SYNCHRONIZATION**  
Olafsdottir, Saedis; Stoner, Joseph; Geirsdottir, Aslaug; Miller, Gifford
- 10:15 ☕ Morning Break

## AM/PM THURSDAY 16 MARCH 2006


### Modern Arctic Environmental Change

Thurs. am Chair: Ray Bradley

- 10:30 **ARCTIC GLACIERS DYNAMIC CHARACTERISTICS AND IMPLICIT SENSITIVITY: GLOBAL SEA LEVEL IMPLICATIONS**  
Dyurgerov, Mark B; Box, Jason E.
- 10:45 **ARCTIC SEA ICE CHANGES IN THE 20TH AND 21ST CENTURY: VIEWS FROM THE RECENT IPCC MODEL SIMULATIONS**  
Zhang, Xiangdong
- 11:00 **NSIDC SHOWCASES THE STATE OF THE CRYOSPHERE VIA GOOGLE EARTH**  
Ballagh, Lisa; Parsons, Mark; Swick, Ross
- 11:15 **ADVANCED GEOSPATIAL VISUALIZATIONS AND DATA SHARING FOR ARCTIC SCIENCE**  
Manley, William F
- 11:30 **USING MODIS LAND SURFACE TEMPERATURE PRODUCT TO CALCULATE ACTIVE LAYER THICKNESS OF CONTINUOUS PERMAFROST**  
Hachem, Sonia; Allard, Michel; Duguay, Claude R.
- 11:45 **GLIMS TEST OF VARIABILITY IN GLACIER ANALYSIS FROM SATELLITE IMAGERY**  
Raup, Bruce H; Khalsa, Siri Jodha S; Helm, Christopher; Armstrong, Richard
- 12:00  Lunch Break

### Marine Records

Thurs. pm Chair: James Syvitski

- 1:30 **DO GULF OF ALASKA MARINE STRATA CONTAIN EVIDENCE OF INCREASED LATE 20TH CENTURY GLACIAL MELTING AND RUNOFF?**  
Jaeger, John M; Vienne, William; Finney, Bruce; Stoner, Joseph; Channell, James
- 1:45 **MAJOR SHIFTS IN MARINE CLIMATE AND ENVIRONMENT BETWEEN 1000 AND 11,500 CAL YR BP RECORDED IN A MARINE SEDIMENT CORE FROM SKOTUFJORDUR, A FJORD ON THE VESTFIRDIR PENINSULA, NW ICELAND**  
Quillmann, Ursula; Andrews, John T; Jennings, Anne E
- 2:00 **NEOGLOBOQUADRINA PACHYDERMA (DEX. AND SIN.) MG/CA AND D18O RECORDS FROM THE NORWEGIAN SEA**  
Nyland, Birgitte F.; Jansen, Eystein; Elderfield, Henry; Andersson, Carin
- 2:15 **RISING TEMPERATURES, SHRINKING ICE: THE DEGLACIATION IN THE BERING SEA BASED ON DIATOMS, ALKENONES, AND OXYGEN ISOTOPES**  
Caissie, Beth E.; Brigham-Grette, Julie; Lawrence, Kira T.; Cook, Mea S.
- 2:30 **THE HOLOCENE MINERALOGY OF MARINE SEDIMENTS FROM THE ICELAND, EAST GREENLAND, AND EASTERN CANADIAN MARGINS FROM QUANTITATIVE XRD ANALYSIS: CHANGES IN SUPPLY AND PROCESSES**  
Coleman, George C.; Diefenbach, Gregory; Roth, Wendy; Andrews, John T.; Eberl, Dennis D.
- 2:45  Afternoon Break

## PM THURSDAY 16 MARCH 2006

### Glacial History 1

Thurs. pm Chair: John Andrews


- 3:00 **WHAT CONTROLS THE LOCATION OF LAURENTIDE PALAEO-ICE STREAMS?**  
**Winsborrow**, Monica; Clark, Chris; Stokes, Chris
- 3:15 **THE LAST GLACIAL CYCLE ON JAMESON LAND, EAST GREENLAND: LOCAL GLACIATION, ICE-FREE CONDITIONS AND PERHAPS AN ICE SHEET**  
**Alexanderson**, Helena; Håkansson, Lena
- 3:30 **SEDIMENTARY PROCESSES BENEATH ICE STREAMS, INFERRED FROM 3D SEISMIC DATA FROM THE SOUTH-WESTERN BARENTS SEA**  
**Andreassen**, Karin
- 3:45 ☕ Afternoon Break

### Glacial History 2

Thurs. pm Chair: John Andrews

- 4:00 **LGM GLACIER RETREAT RATES AND THE TIMING OF TERRACE FORMATION IN THE ANIMAS RIVER DRAINAGE, SAN JUAN MOUNTAINS, COLORADO**  
**Guido**, Zackry S; Anderson, Robert S
- 4:15 **USING COSMOGENIC ISOTOPES TO RECONCILE TWO CONTRASTING HYPOTHESES FOR ICE EXTENT IN EAST GREENLAND DURING THE LAST GLACIATION**  
**Håkansson**, Lena; Alexanderson, Helena; Aldahan, Ala; Briner, Jason; Hjort, Christian; Possnert, Göran
- 4:45 **WAS THERE A MARINE TRANSGRESSION ON THE LAPTEV SEA SHELF DURING THE LAST INTERGLACIAL? EVIDENCE OF CONTINENTAL CLIMATE IN THE SIBERIAN ARCTIC BY TERRESTRIAL PLANT MACROFOSSILS**  
**Kienast**, Frank W; Schirrmeister, Lutz; Grosse, Guido; Tarasov, Pavel; Siegert, Christine; Hubberten, Hans W
- 5:00 End of Day
- 5:30 to 8:00pm 🍕 Student Pizza and Beer Party (Students Only).  
INSTAAR Bldg. RL-1, Rm. 269

## AM FRIDAY 17 MARCH 2006 POSTERS

8:30am  **Continental Breakfast provided**  
INSTAAR, Bldg. RL-1, Rm. 269  
(Box lunch provided at end of poster session)

### Poster Session

Fri. 8:30 - 12:00 Chair: William Manley Location: INSTAAR, Bldg. RL-1, 2<sup>nd</sup> Floor Hallways

#### Cryosphere - Posters

- 1 **ICEBERGS IN THE ATLANTIC AND INDIAN SECTORS OF ANTARCTIC REGION: THEIR MEAN DISTRIBUTION AND INTERANNUAL VARIATION INFERRED FROM SHIPS-BORN OBSERVATIONS**  
Romanov, Yuri A; Romanov, Peter
- 2 **SURFACE VELOCITIES NEAR ICE CLIFF MARGINS AT TAYLOR GLACIER, ANTARCTIC DRY VALLEYS**  
Whorton, Erin; Pettit, Erin; Hallet, Bernard; Fountain, Andrew
- 3 **SHORT-TERM CHANGES IN TERMINUS GEOMETRY AT COLUMBIA GLACIER, AK**  
Walter, Jacob I.; O'Neel, Shad; Pfeffer, W. Tad
- 4 **GPS INFRASTRUCTURE SUPPORT FOR REAL-TIME AND POST-PROCESSED SURVEYS AT SUMMIT CAMP, GREENLAND**  
Nylen, Thomas H.; White, Seth; Johns, Bjorn

#### Geomorphology, Soils, & Landscapes - Posters

- 5 **REGIONAL LANDSLIDE MAPPING: LANDSLIDE SPATIAL DATABASE AND CASE STUDIES IN THE MACKENZIE VALLEY, NORTHWEST TERRITORIES, CANADA**  
Couture, Réjean; Riopel, Simon
- 6 **ECOSYSTEM DEVELOPMENT ON THE HISTORICAL LAVA FIELDS OF MT. HEKLA, ICELAND**  
Cutler, Nick
- 7 **CHEMICAL WEATHERING IN LOESS SOILS OF THE MATANUSKA VALLEY, ALASKA**  
Cacy, Cynthia; Anderson, Suzanne P.; Blum, Alex; Mann, Dan

**AM FRIDAY 17 MARCH 2006 POSTERS**

**Glacial History - Posters**

- 9 **LATEST WISCONSIN DEGLACIATION AND POSTGLACIAL VEGETATION DEVELOPMENT IN THE TURNAGAIN ARM AREA, UPPER COOK INLET, SOUTHCENTRAL ALASKA**  
Ager, Thomas A.; Carrara, Paul E.
- 10 **PRESERVATION OF LANDFORMS UNDER ICE-SHEET : THE EXAMPLE OF THE BLOCKFIELDS OF THE CHIC-CHOC RANGE (QUÉBEC, CANADA)**  
Tsao, Cécile; Fillion, Louise; Hétu, Bernard
- 11 **RECONSTRUCTING HOLOCENE GLACIER CHANGES IN WEST GREENLAND FROM MULTISPECTRAL ASTER IMAGERY**  
Huh, Kyung In; Csatho, Bea M; van der Veen, Cornelis

**Paleoceanography - Posters**

- 12 **ARCTIC CATASTROPHES: SEA ICE CHANGES AND IMPACTS IN THE EASTERN ARCTIC DURING THE PAST 4,000 YEARS**  
Mudie, Peta J.; Levac, Elisabeth; Rochon, André
- 13 **HOLOCENE PALEOTEMPERATURE ESTIMATES OF ATLANTIC WATER IN THE IRMINGER CURRENT**  
Jennings, Anne E; Ólafsdóttir, Saedis; Woody, Kristin M; Andrews, John T
- 14 **MARINE EVIDENCE FOR GLACIAL ICE ADVANCES IN VISCOUNT MELVILLE SOUND AND BYAM MARTIN CHANNEL, CANADIAN ARCTIC ARCHIPELAGO**  
MacLean, Brian; Sonnichsen, Gary; Blasco, Steve; Bennett, Robbie; Rainey, Walli

**Interdisciplinary Research - Posters**

- 15 **THE MORPHOLOGY AND PALEOBIOLOGY OF LATE CRETACEOUS LINGULIDS FROM THE CANADIAN HIGH ARCTIC**  
Barton, David L; Chin, Karen
- 16 **THE BISHOP'S COWS - AN IMPROVED 18TH CENTURY LANDSCAPE IN SUBARCTIC ICELAND**  
Hambrecht, George
- 17 **EXPLORING CLIMATE CHANGE ISSUES IN ICELAND: THE PERILS AND PROMISE OF INTERDISCIPLINARY RESEARCH**  
McNie, Elizabeth; Axford, Yarrow; Rosner, Hillary; Haag, Amanda
- 18 **CYCLONES OF THE ARCTIC: DEFINITIONS, SEASONAL TRENDS AND PATTERNS, AND LINKS TO FRESHWATER CYCLE**  
Byrkjedal, Oyvind; Tsukernik, Maria; Alexeev, Vladimir


**AM FRIDAY 17 MARCH 2006 POSTERS**

**Svalbard REU: Modern Process Studies - Posters**

- 19 **DETERMINATION OF STRATIFORM CLOUD FORMATION AND ITS EFFECT UPON GLACIAL ABLATION AT LINNÉBREEN, SVALBARD FOR THE SUMMER OF 2005**  
Szembek, Carlos D.; Colby, Frank
  - 20 **RELATIONSHIPS AMONG WEATHER, GLACIAL ABLATION, AND FLUVIAL PROCESSES, SVALBARD, NORWAY**  
Gercke, Emily S
  - 21 **SIX WEEKS IN THE ARCTIC, A TEACHER RESEARCH EXPERIENCE IN SVALBARD, NORWAY**  
Oddo, Robert
  - 22 **ICE-MARGINAL DELTA FORMATION AND SEDIMENTARY PROCESSES OF KONGSVEGEN GLACIER IN KONGSFJORDEN, SVALBARD, NORWAY**  
Cumpston, Ryan M; Trusel, Luke; Powell, Ross D; Brigham-Grette, Julie
  - 23 **FJORD SEDIMENTATION ASSOCIATED WITH A SUBMARINE MELTWATER JET AND PLUME DISCHARGING FROM KRONEBREEN GLACIER, KONGSFJORDEN, SVALBARD, NORWAY**  
Trusel, Luke D; Cumpston, Ryan M; Brigham-Grette, Julie; Powell, Ross D
  - 24 **THE ROLE OF THE VALLEY BRAIDPLAIN AS A SEDIMENT SINK: LINNÉDALEN, SPITSBERGEN, SVALBARD**  
Matell, Nora; Cox, Rónadh
  - 25 **SOLUTE DISTRIBUTION AND TRANSPORT IN THE LINNE CATCHMENT, SVALBARD**  
Moore, Frances
  - 26 **MINERALOGICAL ANALYSIS OF SEDIMENT SOURCE CHANGES TO LINNÉVATNET, SVALBARD**  
Perreault, Lauren M
  - 27 **SEDIMENTATION IN LINNÉVATNET, SVALBARD DURING 2004-2005: A MODERN PROCESS STUDY USING SEDIMENT TRAPS**  
Motley, Brooks
  - 28 **THREE TIMESCALES OF SUSPENDED SEDIMENT TRANSPORT IN LAKE LINNÉ, SVALBARD**  
Yellen, Brian; Donnelly, Jeffrey P.
  - 29 **CHARACTERIZATION AND CALIBRATION OF LAMINATION STRATIGRAPHY OF CORES RECOVERED FROM LAKE LINNÉ, SVALBARD NORWAY**  
Pratt, Emily M; Werner, Al; Roof, Steve R
-

- 30 **RECENT CHANGES IN SMALL LAKES OF WESTERN SPITSBERGEN, SVALBARD (NORWEGIAN HIGH ARCTIC)**  
Holmgren, Sofia; Wolfe, Alexander P; Ingolfsson, Olafur
- 31 **HOLOCENE PALEOCLIMATE AND ECOSYSTEM CHANGE IN THE ALASKA AND YUKON SUB-ARCTIC FROM LAKE SEDIMENT RECORDS**  
Anderson, Lesleigh; Abbott, Mark B; Finney, Bruce P; Edwards, Mary E; Witthaus, Lindsey; Franklin-Smith, Lee; Tsukernik, Maria
- 32 **HOLOCENE PALEOCLIMATE FROM STABLE ISOTOPE GEOCHEMISTRY OF SQUANGA LAKE, SOUTHERN YUKON TERRITORY, CANADA**  
Witthaus, Lindsey; Abbott, Mark; Anderson, Lesleigh; Ortiz, Joseph
- 33 **HIGH RESOLUTION ANALYSIS OF LATE HOLOCENE LAMINATED SEDIMENTS FROM CAPE HURD LAKE, SOUTHWESTERN DEVON ISLAND, NUNAVUT, CANADA: A CONTRIBUTION TO THE ARCTIC 2,000 YEAR SYNTHESIS OF CLIMATE VARIABILITY FROM ARCTIC LAKES**  
Retelle, Mike; Johnson, Bev; Putnam, Aaron
- 34 **DELAYED RESPONSE OF DIATOM ASSEMBLAGES TO EUTROPHICATION IN AN ARCTIC LAKE**  
Michelutti, Neal; Smol, John P.; Douglas, Marianne S.V.
- 35 **COMPARING RADIOCARBON AGES FROM AQUATIC MOSS MACROFOSSILS, HUMIC ACIDS AND CHIRONOMID HEAD CAPSULES IN ARCTIC LAKE SEDIMENTS**  
Thomas, Elizabeth K; Briner, Jason P; Axford, Yarrow; Miller, Gifford H.
- 36 **A COMPACT PERCUSSION PISTON CORER FOR SURFACE SEDIMENTS**  
Briner, Jason P; Miller, Gifford H; Axford, Yarrow; Werner, Al; Kaufman, Darrell S; Axford, Ted; Cunningham, Kevin
- 37 **PRELIMINARY PALEOCLIMATE PROXY DATA FROM HIGH-RESOLUTION SURFACE SEDIMENT CORES FROM TWO BAFFIN ISLAND LAKES: A CONTEXT FOR THE ANTHROPOCENE**  
Szymanski, Jason; Thomas, Elizabeth K; Briner, Jason P; Axford, Yarrow; Miller, Gifford H
- 38 **SEDIMENTARY EVIDENCE OF CLIMATE AND LANDSCAPE CHANGES FROM UPPER AND LOWER MURRAY LAKES IN THE CANADIAN HIGH-ARCTIC**  
Cook, Tim; Patridge, Whit; Bradley, Raymond S.
- 39 **PATTERNS OF HOLOCENE LAKE ONTOGENY IN WEST GREENLAND**  
Perren, Bianca B; Anderson, N. John; Douglas, Marianne S.V.; Fritz, Sheri
- 40 **HOLOCENE MIDGE-INFERRED TEMPERATURE RECONSTRUCTIONS FROM SOUTHERN GREENLAND LAKES: A CONTRIBUTION TO THE ARCSS 2 KYR PROJECT**  
Francis, Donna R.; Miller, Gifford H.
- 41 **A SEDIMENTOLOGICAL STUDY OF LAKE CORES WITH IMPLICATIONS FOR LATE HOLOCENE CLIMATE AND SETTLEMENT DYNAMICS IN SOUTH MAINLAND, SHETLAND ISLANDS, UNITED KINGDOM**  
Mazur, Sarah E; Retelle, Michael; Bigelow, Gerald; Jones, Michael


## PM FRIDAY 17 MARCH 2006

12:00pm  **Box Lunch provided**  
INSTAAR, Bldg. RL-1, Rm. 269

### Atmospheric & Meteorologic processes

Fri. pm Chair: William Manley

*Presentation withdrawn*

- **CLIMATE VARIABILITY AND TRENDS ALONG THE WESTERN SLOPE OF THE GREENLAND ICE SHEET**  
Steffen, Konrad; Huff,
- 1:15 **AN ENHANCED CHARACTERIZATION OF THE NAO INFLUENCE ON SEASONAL PRECIPITATION VARIATION IN WEST GREENLAND**  
Aebly, Frank A; Hu, Qi; Fritz, Sherilyn C
- 1:30 **LONG DISTANCE POLLEN TRANSPORT TO GREENLAND: SURVEY OF EVIDENCES RECORDED IN 2004 AND 2005 IN FOUR STATIONS**  
Rousseau, Denis-Didier; Schevin, Patrick; Jackie, Ferrier
- 1:45 **MODELING DMS IN THE ARCTIC ATMOSPHERE - METEOROLOGICAL PROCESSES EXPLAINING THE OBSERVED VARIABILITY**  
Mattsson, Jenny; Svensson, Gunilla; Leck, Caroline
- 2:00 **OZONE EXCHANGE AT THE AIR-SNOW INTERFACE AT THE POLAR SITE OF SUMMIT, GREENLAND**  
Bocquet, Florence; Cohen, Lana; Helmig, Detlev
- 2:15  Afternoon Break

### Human Dimensions & Archeology 1

Fri. pm Chair: E. James Dixon

- 2:30 **EFFECTS OF CLIMATIC VARIABILITY ON NATIVE SUBSISTENCE-FISHING ECONOMIES IN SOUTHWEST ALASKA: IMPLICATIONS FOR FISHERIES-MANAGEMENT POLICIES**  
McGoodwin, James R.; Engelhaupt, Erika
- 2:45 **GETTING IT ALMOST RIGHT: CLIMATE FLUCTUATION, GRAZING MANAGEMENT, AND SOIL EROSION IN MEDIEVAL NORTHERN ICELAND**  
McGovern, Thomas H; Casely, Andy; Dugmore, Andy; Simpson, Ian; Vesteinsson, Orri; Perdikaris, Sophia; Hambrecht, George
- 3:00 **GOOD FOR GLACIERS, BAD FOR PEOPLE? DISENTANGLING CLIMATE AND HUMAN IMPACT IN MEDIEVAL ICELAND**  
Casely, Andrew F; Dugmore, Andrew J
- 3:15 **THE LAST FAMINE IN ICELAND**  
Ogilvie, Astrid E.J.; Jonsson, Trausti
- 3:30  Afternoon Break

**PM FRIDAY 17 MARCH 2006**

**Human Dimensions & Archeology 2**

Fri. pm Chair: E. James Dixon

- 3:45 **RETHINKING THE ARCHAEOLOGY OF BERINGIA**  
**Hoffecker**, John F; Elias, Scott A
- 4:00 **ASSESSING THE ORIGIN AND FUNCTION OF EARLY PERIOD MICROBLADE TECHNOLOGY IN SOUTHEAST ALASKA**  
**Lee**, Craig M; Dixon, E. James
- 4:15 **IMPLICATIONS OF CLIMATE CHANGE FOR ARCTIC TOURISM**  
**Snyder**, John
- 4:30 End of main sessions

**Workshop Dinner and Keynote Address**

Fri. pm Location: UMC on main campus, Rm. 235

- 5:00 Shuttle bus pickup at INSTAAR  
5:15 Shuttle bus pickup at Boulder Inn Best Western  
5:30 Shuttle bus pickup at Boulder Inn Best Western



**Dinner provided by Arctic Workshop**

Hors d'oeuvres, main meal, beer, wine, and soft drinks will be served.  
University Memorial Center (UMC) Rm. 235 on main campus.

- 6:00 **Keynote Address**  
**“Global Warming and Washington heat”**  
**by Ray Bradley**

- 9:30 Shuttle bus from UMC to Boulder Inn Best Western  
10:00 Shuttle bus from UMC to Boulder Inn Best Western

## AM SATURDAY 18 MARCH 2006

### Lacustrine Records 2

Sat. am Chair: Alexander Wolfe

- 08:30 **CALIBRATING THE LAMINATION STRATIGRAPHY OF LINNÉ VALLEY, SVALBARD, NORWAY: RESEARCH RESULTS FROM THE SVALBARD REU PROJECT**  
Werner, Al; Roof, Steve; Retelle, Mike
- 08:45 **ICE CAP RETREAT IN NORTHERN BAFFIN ISLAND: PROVIDING A CONTEXT FOR CURRENT ARCTIC WARMING**  
Anderson, Rebecca; Miller, Gifford; Briner, Jason
- 09:00 **HIGH-AMPLITUDE HOLOCENE TEMPERATURE CHANGES ON NORTHEASTERN BAFFIN ISLAND INFERRED FROM SUBFOSSIL MIDGES**  
Axford, Yarrow; Briner, Jason P.; Francis, Donna R.; Miller, Gifford H.
- 09:15 **POST-GLACIAL CLIMATE CHANGE ON BOOTHIA PENINSULA, NUNAVUT, CANADA**  
Zabenskie, Susan; Gajewski, Konrad
- 09:30 ☕ Morning Break

### Lacustrine Records 3

Sat. am Chair: Lesleigh Anderson

- 09:45 **HYDROCLIMATIC CONTROLS OVER THE FORMATION OF VARVES IN THE CANADIAN HIGH ARCTIC: DO WARMER TEMPERATURES PRODUCE THICKER VARVES?**  
Cockburn, Jaclyn M. H.; Lamoureux, Scott F.
- 10:00 **QUANTITATIVE MINERALOGY OF YUKON RIVER SEDIMENTS**  
Eberl, Dennis D.; Frederick, Zan
- 10:15 **DIATOMS AS PROXIES FOR A FLUCTUATION HOLOCENE ICE CAP MARGIN IN HVÍTÁRVATN, ICELAND**  
Black, Jessica L; Miller, Gifford H; Geirsdottir, Aslaug
- 10:30 **SALMON-DERIVED CONTAMINANTS IN LAKE SEDIMENTS FROM ALASKA AND NORTHERN BRITISH COLUMBIA**  
Krümmel, Eva M.; Gregory-Eaves, Irene; Macdonald, Robie W.; Kimpe, Lynda E.; Demers, Marc J.; Smol, John P.; Finney, Bruce; Blais, Jules M.
- 10:45 ☕ Morning Break

## AM SATURDAY 18 MARCH 2006

### Glaciology 1

Sat. am Chair: Mark Dyurgerov

- 11:00 **SURFACE MELT WATER FLOW IN THE ACCUMULATION AREA OF THE GREENLAND ICE SHEET**  
Rick, Ursula K; Pfeffer, Tad
- 11:15 **LOCAL-SCALE SNOW ACCUMULATION VARIABILITY ON THE GREENLAND ICE SHEET FROM GROUND-PENETRATING RADAR (GPR)**  
Maurer, John; Steffen, Konrad; Huff, Russell
- 11:30 **DETECTION AND ANALYSIS OF ICEQUAKES AT COLUMBIA GLACIER, AK**  
O'Neel, Shad; Marshall, Hans Peter; McNamara, Daniel; Pfeffer, Tad
- 11:45 ☕ Morning Break

### Glaciology 2

Sat. am Chair: Mark Dyurgerov

- 12:00pm **ICE CLIFFS AND THE TERMINUS DYNAMICS OF POLAR GLACIERS**  
Pettit, Erin C; Fountain, Andrew G; Hallet, Bernard; Whorton, Erin; Sniffen, Peter; Nylén, Thomas H
- 12:15 **MODELED GLACIAL VALLEY PROFILES AND A FIELD TEST OF MODEL PREDICTIONS**  
Anderson, Robert S; Molnar, Peter; Kessler, Mark A; Briner, Jason; Ward, Dylan
- 12:30 **TIDEWATER GLACIERS OF FRANZ JOSEF LAND AND NOVAYA ZEMLYA AND THEIR ICEBERG PRODUCTION**  
Glazovsky, Andrey; Macheret, Yuri; Vasilenko, Evgeniy
- 12:45 **COLUMBIA GLACIER, ALASKA, AT MID-RETREAT**  
Pfeffer, W Tad; O'Neel, Shad; Howat, Ian; Krimmel, Robert M.; Meier, Mark F.
- 1:00 End of the Workshop!

*Thanks for attending.  
See you in Iceland in Spring 2007.*