

Introduction

Overview and history

The 34th Annual International Arctic Workshop will be held March 10 - 13, 2004, 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 for presentation and poster display.

Web site

<http://www.colorado.edu/INSTAAR/AW2004/>

Workshop Location

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".

RL-1, two stories tall, 1560 30th St., 2nd Floor Conference Rm. 269.

- Icebreaker, check-in, and registration on Wednesday evening.
- Check-in and registration on Thursday morning.
- Poster session on Friday morning in adjacent 2nd Floor hallways.
- Oral presentations on Saturday.

RL-3, six stories tall, 3100 Marine St., 6th Floor Auditorium Rm. 620.

- Oral presentations on Thursday (all day) and Friday (afternoon).

Registration

Please check in or register in Room 269 in Bldg. RL-1 at one of two times: (1) the Icebreaker between 5 - 8pm on Wed. March 10, or (2) between 8 - 8:30am on Thursday, March 11. At registration you will receive the Program and Abstracts, as well as other workshop information.

Posters

Please put up your posters as early as possible, and leave them up as late as possible during the workshop. Our intention is that posters will be made available for informal review by participants during the Icebreaker, session breaks, and at other times, as well as during the official poster session on the morning of Friday, March 12. At registration you will receive information on where to set up your poster.

Acknowledgments

The Arctic Workshop each year is partially subsidized for student registration and accommodation costs through a grant from the U.S. National Science Foundation (grant OPP-0133709), for which we are grateful. Efforts by the Organizing Committee, led by Tad Pfeffer and David Lubinski, made the event possible.



Summary Agenda

WEDNESDAY 10 MARCH 2004

5:00 - 8:00pm **Icebreaker, Check in, & Registration** RL-1 Rm. 269

THURSDAY 11 MARCH 2004

8:00 - 8:30am **Check-in & Registration** RL-1 Rm. 269

8:40 **Workshop Welcome & Introduction** RL-3 Rm. 620

9:00 **PARCS 1*** “

10:30 Morning Break “

10:45 **PARCS 2*** “

12:00pm Lunch break your choice

1:15 **Special Talk: Radiocarbon Calibration** RL-3 Rm. 620

1:45 **Iceland Marine** “

2:45 Afternoon Break 1 “

3:00 **Iceland Terrestrial/Lacustrine** “

4:15 Afternoon Break 2 “

4:30 **North Alaska, Beringia, and Antarctica** “

5:45 End of Day

6:00 – 8:00 Pizza Party (students only) RL-1 Rm. 269

FRIDAY 12 MARCH 2004

8:30am Continental Breakfast provided RL-1 Rm. 269

8:30 **Posters** RL-1 2nd floor

11:30 Box Lunch provided RL-1 Rm. 269

12:30pm **Greenland** RL-3 Rm. 620

2:45 Afternoon Break 1 “

3:00 **E Canada Lacustrine** “

4:00 Afternoon Break 2 “

4:15 **E Canada Glaciers and Cosmogenic Dating** “

5:30 End of Day

6:30 – 10:00	Dinner provided by Arctic Workshop Koenig Alumni Center CU-Boulder Main Campus 1202 University Ave.	Koenig Alumni Center
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SATURDAY 13 MARCH

9:00am **NW Canada** RL-1 Rm. 269

10:30 Morning Break “

10:45 **Europe, Russia, and More** “

11:30 Lunch break your choice

1:00pm **Alaska & W Canada** RL-1 Rm. 269

3:00 End of Meeting!

* PARCS = Paleoenvironmental ARCTic Sciences, an NSF-supported community performing research and developing science goals related to past climates and environments of the Arctic and sub-Arctic.

Detailed Agenda

WEDNESDAY 10 MARCH 2004

5:00 - 8:00pm **Icebreaker, Check in, & Registration**
INSTAAR Conference Room, Bldg. RL-1, Rm. 269

THURSDAY 11 MARCH 2004

8:00 - 8:30am **Check-in & Registration**
INSTAAR Conference Room, Bldg. RL-1, Rm. 269

8:40 **Workshop Welcome & Introduction**
INSTAAR Auditorium, Bldg. RL-3, Rm. 620
James Syvitski (INSTAAR Director)
Tad Pfeffer (Workshop Organizer)
Darrell Kaufman / Glen MacDonald (PARCS co-chairs)

Oral Session **PARCS 1**
1 INSTAAR Auditorium, Bldg. RL-3, Rm. 620
Chair: Glen MacDonald

9:00 **VARIABILITY IN SUMMER ARCTIC TEMPERATURE AND ARCTIC OSCILLATION OVER THE PAST 600 YEARS**
HUGHEN, KONRAD; Huybers, Peter; High Resolution Working Group, PARCS

9:15 **REPRESENTATIVENESS OF LONG-TERM COASTAL OCEAN OBSERVATIONS FROM THE FAEROE ISLANDS, ICELAND AND GREENLAND**
MILES, MARTIN

9:30 **SEASONAL CHARACTERIZATION OF DIATOMS IN THE LORD LINDSAY RIVER, BOOTHIA PENINSULA, NUNAVUT**
STEWART, KAILEY A.; Lamoureaux, Scott F.

9:45 **CALIBRATING THE SEDIMENT RECORD OF LINNÉVATNET, SVALBARD, NORWAY: PRELIMINARY RESULTS OF A MODERN PROCESS STUDY**
WERNER, AL; Roof, Steve R.; Kathan, Kasey M.; Pratt, Emily M.; Brigham-Grette, Julie; Powell, Ross D.; Retelle, Mike J.

10:00 **A 1000-YEAR VARVED SEDIMENT RECORD FROM THE BROOKS RANGE, ALASKA**
OSGOOD-KUTCHKO, BARBARA G.; Abbott, Mark B.; Finney, Bruce

10:15 **LATE HOLOCENE PALEOMAGNETIC SECULAR VARIATION (PSV) FROM NUNAVUT, CANADA: DEVELOPMENT OF A DATING CURVE**
STONER, JOSEPH S.; Francus, Pierre; Bradley, Raymond S.; Retelle, Michael J.; Abbott, Mark B.; Patridge, Whitney ; Channell, James ET.

10:30 - 10:45 **Morning Break**

THURSDAY 11 MARCH 2004

Oral Session **PARCS 2**
2 INSTAAR Auditorium, Bldg. RL-3, Rm. 620
Chair: Darrell Kaufman

10:45 **CIRCUMARCTIC PEATLAND HISTORY AND GLOBAL ATMOSPHERIC METHANE**
MACDONALD, GLEN M.; Smith, Larry C.; Kremenetski, Konstantine V.; Sheng,
Yongwei; Beilman, Dave W.; Andrei, Velichko A.

11:00 **THE HOLOCENE THERMAL MAXIMUM ON NORTHEASTERN BAFFIN ISLAND**
BRINER, JASON P.; Miller, Gifford H.; Francis, Donna R.; Axford, Yarrow L.

11:15 **THE RAPIDLY DISAPPEARING PLATEAU ICE CAPS OF CENTRAL BAFFIN ISLAND: WHERE WILL IT ALL END?**
MILLER, GIFFORD ; Briner, Jason; DeVogel, Steven

11:30 **MIDDLE HOLOCENE PALEOCEANOGRAPHY IN THE DENMARK STRAIT REGION**
JENNINGS, ANNE E.; Stoner, Joe; Hall, Ian; Kristjánssdóttir, Gréta

11:45 **SEDIMENT AND MASS ACCUMULATION RATES ON THE ICELAND MARGIN OVER THE LAST 12,000 CALENDAR YEARS**
ANDREWS, JOHN T.

12:00 - 1:15pm **Lunch break (location is your choice)**

Special **Radiocarbon Calibration**
Talk INSTAAR Auditorium, Bldg. RL-3, Rm. 620
Introduction: Gifford Miller

1:15 - 1:45pm **CALIBRATION OF THE 14C TIMESCALE AND CONSTRAINTS OF THE GLACIAL CARBON CYCLE**
LEHMAN, SCOTT; Hughen , Konrad ; Southon, John

THURSDAY 11 MARCH 2004

Oral Session **Iceland Marine**
3 INSTAAR Auditorium, Bldg. RL-3, Rm. 620
Chair: Chris Caseldine

- 1:45 **QUANTITATIVE RECONSTRUCTIONS OF NEAR-SHORE ENVIRONMENTS OVER THE LAST 2000 YEARS IN VESTFIRDIR, NW ICELAND: EVIDENCE FROM HIGH-RESOLUTION STABLE ISOTOPE ANALYSES OF MOLLUSCS**
Dietrich, Kristin A.; PATTERSON, WILLIAM P.; Andrews, John T.; Jennings, Anne E.; Ogilvie, Astrid E.J.
- 2:00 **TESTING OF THREE NEW COOL-WATER CALIBRATIONS FOR THE MG/CA PALEOTHERMOMETER SUGGESTS REDUCED INFLOW OF ATLANTIC WATER ONTO THE N-ICELAND SHELF IN THE PAST 2000 YRS**
KRISTJÁNSDÓTTIR, GRÉTA B.; Jennings, Anne E.; Lea, David W.
- 2:15 **OCEANOGRAPHIC CHANGES AROUND 8 KYR. BP ON THE NORTHERN ICELANDIC SHELF INTERPRETED FROM SEDIMENTOLOGICAL AND FORAMINIFERAL FAUNAL ANALYSES IN CORE MD992275**
SØNDERGAARD, METTE KB.; Eiríksson, Jón; Knudsen, Karen Luise
- 2:30 **CURRENTS AND CLIMATE ON THE NORTHWEST ICELAND SHELF IN THE LATE QUATERNARY (10-30 KA CAL BP): RECONSTRUCTION BASED ON FORAMINIFERAL AND SEDIMENTOLOGICAL RESEARCH**
ÓLAFSDÓTTIR, SAEDÍS; Geirsdóttir, Áslaug; Jennings, Anne E.; Andrews, John, T.

2:45 - 3:00 **Afternoon Break 1**

Oral Session **Iceland Terrestrial/Lacustrine**
4 INSTAAR Auditorium, Bldg. RL-3, Rm. 620
Chair: John Andrews

- 3:00 **HUMAN ECOLOGY, LOCAL KNOWLEDGE, AND INTERDISCIPLINARY RESEARCH IN MYVATN, NORTHERN ICELAND**
OGILVIE, ASTRID E.J.; McGovern, Thomas H.
- 3:15 **TERRESTRIAL RESPONSES TO HOLOCENE CLIMATIC FORCING - EXAMPLES FROM N/NW ICELAND**
CASELDINE, CHRIS; Langdon, Pete; Holmes, Naomi
- 3:30 **GLACIER MAXIMA, MINIMA AND CLIMATE IN TRÖLLASKAGI, NORTHERN ICELAND**
CASELY, ANDREW F.
- 3:45 **SEISMIC NETWORK ENABLES ASSESSMENT OF FLOOD DYNAMICS BENEATH AN ICELANDIC GLACIER**
ROBERTS, MATTHEW J.; Björnsson, Helgi; Pálsson, Finnur; Gudmundsson, Gunnar B.
- 4:00 **TRAINING MIDGES: CONTEMPORARY CHIRONOMID-ENVIRONMENT RELATIONSHIPS FROM NW ICELAND**
LANGDON, PETER G.

4:15 - 4:30 **Afternoon Break 2**

THURSDAY 11 MARCH 2004

Oral Session **North Alaska, Beringia, and Antarctica**
5 INSTAAR Auditorium, Bldg. RL-3, Rm. 620
Chair: James Syvitski

- 4:30 **WALRUSES, SEALS, AND CLIMATE CHANGE**
KELLY, BRENDAN P.
- 4:45 **SPATIAL ANALYSIS OF COASTAL EROSION OVER FIVE DECADES NEAR BARROW, ALASKA**
MANLEY, WILLIAM F.
- 5:00 **MODELING LONGSHORE TRANSPORT AND COASTAL EROSION DUE TO STORMS AT BARROW, ALASKA**
PECKHAM, SCOTT D.; Syvitski, James PM.
- 5:15 **HOLOCENE VEGETATION, FIRE, AND CLIMATE HISTORY FROM THE SOUTHERN BROOKS RANGE, ALASKA**
HIGUERA, PHILIP E.; Brubaker, Linda B.; Anderson, Patricia M.; Hu, Feng Sheng; Clegg, Ben; Brown, Tom; Rupp, Scott
- 5:30 **RADIOGENIC ISOTOPE PROVENANCE STUDIES OF GLACIAL TILLS IN ROSS SEA AND VICINITY, ANTARCTICA**
FARMER, G. LANG; Licht, Kathy ; Andrews, John T.; Swope, R. Jeffrey
- 5:45 **End of the Day**

6:00 - 8:00 **Pizza Party (students only), INSTAAR Bldg. RL-1, Rm. 269**

FRIDAY 12 MARCH 2004

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

8:30 - 11:30am **Posters**
Poster INSTAAR, Bldg. RL-1, 2nd Floor
Session Chair: William Manley

Cryosphere Posters

- 1 **AN ATTEMPT TO ESTIMATE WATER BALANCE COMPONENTS IN PAN-ARCTIC**
DYURGEROV, MARK B.; Balaeva, Vera; Pichugina, Yelena
- 2 **A MASS BALANCE PROFILE ALONG THE WESTERN SLOPE OF GREENLAND**
ALBERT, TODD H.
- 3 **AN AUTONOMOUS WIRELESS SENSOR NETWORK FOR HARSH-
ENVIRONMENT DATA ACQUISITION**
FATLAND, DENNIS R.; Anandakrishnan, Sridhar; Grissom, Brad
- 4 **GLACIAL ARCHEOLOGY: A NEW RESEARCH FRONTIER**
DIXON, E. JAMES; Manley, William F.; Lee, Craig M.

Glacial Geology Posters 1

- 5 **ALASKAN TEMPERATURE CHANGE OVER THE PAST MILLENNIUM: SOLAR
FORCING MODULATED BY THE ARCTIC AND PACIFIC DECADAL
OSCILLATIONS**
WILES, GREGORY C.; D'Arrigo, Rosanne D.; Villalba, Ricardo; Barclay, David J.;
Calkin, Parker E.
- 6 **TREE-RING AND HISTORICAL EVIDENCE FOR A LARGE AND RAPID ADVANCE
OF AN ALASKAN TIDEWATER GLACIER**
BARCLAY, DAVID J.; Barclay, Julie L.; Calkin, Parker E.; Wiles, Gregory C.
- 7 **TREE-RING DATED 1000-YEAR ADVANCE OF COLUMBIA GLACIER**
BECKWITH-LAUBE, MATTHEW J.; Wiles, Greg C.; Calkin, Parker E.; Post, Austin
- 8 **TILTED TREES AND LOST LAKES: DENDROGLACIOLOGICAL INSIGHTS INTO
LITTLE ICE AGE GLACIER ACTIVITY IN THE NORTHEAST ST. ELIAS
MOUNTAINS, YUKON TERRITORY**
REYES, ALBERTO V.; Luckman, Brian H.; Smith, Dan J.; Jensen, Britta JL.; Clague,
John J.
- 9 **A POTENTIAL MODEL FOR PEDAGOGICAL TECHNIQUES IN UNDERGRADUATE
FIELD GEOLOGY: AN EXAMPLE FROM SOUTH-CENTRAL ALASKA**
VOGAN, NATHAN W.; Lennon, Brendan; Robinson, Stephen D.; Lamoureux, Scott
- 10 **LOCAL ICE ON WESTERN MELVILLE ISLAND, NWT, CANADA**
NIXON, CHANTEL F.; England, John H.

FRIDAY 12 MARCH 2004

Glacial Geology Posters 2

- 11 **ORIGIN OF THE EAST-WEST ASYMMETRY OF PALEO-GLACIERS IN THE SIERRA NEVADAS**
KESSLER, MARK A.; Anderson, Robert S.; Stock, Greg M.
- 12 **PREDICTING SEDIMENT FLUX TO THE ADRIATIC SEA; THE SIGNIFICANCE OF THE LGM ALPINE GLACIERS**
KETTNER, ALBERT J.; Syvitski, James PM.

Paleoceanography Posters

- 13 **HOW DYNAMIC ARE FLUVIAL-DELTAIC SYSTEMS DRAINING LAND-ICE? A CASE-STUDY OF CLYDE RIVER, BAFFIN ISLAND**
OVEREEM, IRINA; Briner, Jason P.; Kettner, Albert J.
- 14 **SEDIMENTATION IN TEMPELFJORDEN, SPITSBERGEN, HIGH ARCTIC - PRELIMINARY RESULTS**
FORWICK, MATTHIAS; Vorren, Tore O.
- 15 **LATE HOLOCENE PALEOCEANOGRAPHIC VARIATIONS OF ISAFJARDARDJUP, NW-ICELAND**
QUILLMANN, URSULA

Paleolimnology Posters 1

- 16 **INVESTIGATING HOLOCENE CLIMATE CHANGE IN GLACIAL LAKE HVÍTÁRVATN, ICELAND**
BLACK, JESSICA L.; Miller, Gifford H.; Geirsdóttir, Áslaug
- 17 **EVIDENCE OF JÖKULHLAUPS AND SEISMIC INTERPRETATION OF HESTVATN, SOUTHERN ICELAND**
HANNESDÓTTIR, HRAFNHILDUR; Geirsdóttir, Áslaug ; Miller, Gifford H.
- 18 **TESTING A NEW ISOTOPIC PALEO-THERMOMETER IN A MULTI-PROXY CONTEXT: CHIRONOMID $\delta^{18}O$ AS A PROXY FOR HOLOCENE TEMPERATURE CHANGE IN ICELAND**
AXFORD, YARROW; Miller, Gifford H.; Wooller, Matthew J.; Francis, Donna; Geirsdóttir, Áslaug
- 19 **THE USE OF CHIRONOMIDS IN RECONSTRUCTING HOLOCENE PALAEOCLIMATE IN NORTHWEST ICELAND**
HOLMES, NAOMI
- 20 **A CHIRONOMID BASED PALAEOENVIRONMENTAL RECONSTRUCTION OF ANTIFREEZE POND IN YUKON, CANADA**
Barley, Erin M.; WALKER, IAN R.
- 21 **COMPARISON OF SEISMIC STRATIGRAPHY FROM TWO LAKES IN EASTERN BERINGIA**
HILL, ERICA L.; Abbott, Mark; Finney, Bruce

Paleolimnology Posters 2

- 22 **LIMNOLOGICAL AND PALEOLIMNOLOGICAL INVESTIGATIONS OF ENVIRONMENTAL CHANGE FROM MELVILLE ISLAND, NU/NWT, CANADIAN HIGH ARCTIC**
KEATLEY, BRONWYN E.; Douglas, Marianne SV.; Smol, John P.
- 23 **MARKED 20TH CENTURY STRATIGRAPHICAL CHANGES IN LAKE SEDIMENTS FROM WESTERN SPITSBERGEN**
HOLMGREN, SOFIA; Wolfe, Alex P.; Ingolfsson, Olafur
- 24 **LATE QUATERNARY VEGETATION HISTORY AND CLIMATE RECONSTRUCTION INFERRED FROM WESTERN ALASKA AND NORTHERN YUKON LAKES**
KUREK, JOSHUA; Cwynar, Les C.
- 25 **THE CAPE BOUNTY INTEGRATED PALEOCLIMATE EXPERIMENT: CALIBRATING THE SEDIMENTARY AND SUBFOSSIL RECORD CONTAINED IN VARVES**
LAMOUREUX, SCOTT F.; Cockburn, Jaclyn MH.; Stewart, Kailey A.; Forbes, Andrew C.; Francus, Pierre
- 26 **DESIGNING A SEMI-AUTOMATED AND REMOTE SYSTEM TO RETRIEVE VARVED IMAGES FROM THIN-SECTIONS AT THE SCANNING ELECTRON MICROSCOPE**
FRANCUS, PIERRE
- 27 **POST LITTLE ICE AGE RECORD OF FINE AND COARSE CLASTIC SEDIMENTATION IN AN ALASKAN PROGLACIAL LAKE**
LOSO, MICHAEL G.; Anderson, Robert S.; Anderson, Suzanne P.
- 28 **HOLOCENE PALEOTEMPERATURES AND PALEOHYDROLOGY OF MARCELLA LAKE, SOUTHWEST YUKON**
PEDERSEN, CY R.; Cwynar, Les C.
- 29 **LATE QUATERNARY VEGETATION HISTORY OF SOUTHWESTERN YUKON TERRITORY**
VERMAIRE, JESSE C.; Cwynar, Les C.
- 30 **PALEOLIMNOLOGICAL RECORDS OF NUTRIENT DYNAMICS ASSOCIATED WITH SOCKEYE SALMON (ONCORHYNCHUS NERKA) PRODUCTION IN SUB-ARCTIC AND ALPINE NURSERY LAKE ENVIRONMENTS**
SELBIE, DANIEL T.; Finney, Bruce P.; Lewis, Bert; Smol, John P.

Ecosystems Posters

- 31 **CLIMATE AND TROPHIC CASCADES EXPLAIN INTRA- AND INTER-ANNUAL VARIATION IN WADER BREEDING PHENOLOGY IN HIGH ARCTIC GREENLAND**
HØYE, TOKE T.; Schmidt, Niels M.; Meltofte, Hans; Forchhammer, Mads C.
- 32 **PREDICTING LAIR ABANDONMENT BY RINGED SEALS BASED ON PHYSICAL PROPERTIES OF THE SNOWPACK**
CONWAY, JOHN E.; Kelly, Brendan P.; Hood, Eran
- 33 **VEGETATION TYPES OF NY-ALESUND, SVALBARD, AND THEIR HABITAT RELATIONSHIPS**
KOJIMA, SATORU
- 34 **EFFECTS OF INCREASED SNOW-COVER IN TWO NORTHERN SCANDINAVIAN ECOSYSTEMS**
LARSEN, KLAUS S.
- 35 **137CS AND 40K IN DOMINATING PLANT GROUPS OF THE TUNDRA LANDSCAPES IN THE LOWER YENISEY REACHES**
KOROBOVA, ELENA M.; Ukraintseva, Natalia G.
- 36 **A NEW METHOD TO RECONSTRUCT BARK BEETLE OUTBREAKS: RECURRENCE INTERVALS AND HISTORY OF SPRUCE BARK BEETLE (DENDROCTONUS RUFIPENNIS) INFESTATION IN SOUTHWEST YUKON, CANADA**
SEIFERLING, IAN S.; Vetter, Mary

Geomorphology Posters

- 37 **DEVELOPMENT OF SOLIFLUCTION LOBES, KLUANE RANGE, YUKON TERRITORY**
KINNARD, CHRISTOPHE ; Lewkowicz, Antoni G.
- 38 **NATURAL RISKS AND FREQUENCY OF DEBRIS FLOWS IN AKSHAYUK PASS (NUNAVUT, CANADA)**
DOUCET, ANNICK; Lauriol, Bernard
- 39 **INTERNET-BASED PLATFORM FOR REAL-TIME GEOSCIENCE DURING TECTONIC CRISES IN ICELAND**
ROBERTS, MATTHEW J.; Stefánsson, Ragnar; Halldórsson, Páll
- 40 **IMAGING POTENTIAL HYPORHEIC ZONE EXTENT BENEATH ARCTIC STREAMS USING GROUND PENETRATING RADAR**
GOOSEFF, MICHAEL N.; Bradford, John H.; McNamara, James P.; Bowden, William B.
- 41 **DISSOLVED ORGANIC CARBON IN PEATLAND WATERSHEDS OF WEST SIBERIA**
FREY, KAREN E.; Smith, Laurence C.
- 42 **STREAM MODELING**
HARRISON, PHILIP

FRIDAY 12 MARCH 2004

11:30-12:30 **Box Lunch provided**
INSTAAR Bldg. RL-1, Rm. 269

Oral Session **Greenland**
6 INSTAAR Auditorium, Bldg. RL-3, Rm. 620
Chair: Tad Pfeffer

- 12:30 **HOLOCENE LAKE ONTOGENY IN RELATION TO CLIMATIC FORCING AND CATCHMENT DEVELOPMENT IN THE KANGERLUSSUAQ REGION, WEST GREENLAND**
PERREN, BIANCA B.; Anderson, N. John; Birks, Hilary H.; Douglas, Marianne SV.
- 12:45 **A HIGH RESOLUTION CLIMATE RECORD FROM THE NORTHGRIP DEEP ICE CORE**
SCHMIDT, KAREN G.; Dahl-Jensen, Dorthe; Johnsen, Sigfús J.; NorthGRIP members
- 1:00 **PETERMANN GLETSCHER'S FLOATING TONGUE IN NORTHWESTERN GREENLAND: PECULIAR SURFACE FEATURES, BOTTOM MELT CHANNELS, AND MASS BALANCE ASSESSMENT**
STEFFEN, KONRAD; Cullen, Nicolas; Huff, Russel; Stewart, Craig; Rignot, Eric
- 1:15 **SURFACE ABLATION ON A FLOATING ICE TONGUE IN NORTHERN GREENLAND**
CULLEN, NICOLAS J.; Huff, Russell; Steffen, Konrad
- 1:30 **SPATIAL TEMPORAL DISTRIBUTION OF GREENLAND MELT ANOMALIES**
HUFF, RUSSELL D.; Steffen, Konrad
- 1:45 **CYCLONE OCCURRENCE IN THE NORTH ATLANTIC: IMPACTS ON GREENLAND ICE SHEET MELT CYCLES 1979-2002**
MCALLISTER, MOLLY J.; Huff, Russell
- 2:00 **LONG DISTANCE POLLEN TRANSPORT TO SOUTHERN GREENLAND: IS THERE A REGULAR PATTERN?**
ROUSSEAU, DENIS-DIDIER ; Schevin, Patrick ; Duzer, Danielle ; Jolly, Dominique ; Cambon, Genevieve
- 2:15 **A VALIDATION OF THE MODIS CLOUD MASK OVER GREENLAND**
STARKWEATHER, SANDY; Steffen, Konrad
- 2:30 **OZONE UPTAKE TO POLAR AND MID-LATITUDE SNOWPACKS**
BOCQUET, FLORENCE; Rick, Ursula K.; Helmig, Detlev

2:45 - 3:00 **Afternoon Break 1**

FRIDAY 12 MARCH 2004

Oral Session **E Canada Lacustrine**
7 INSTAAR Auditorium, Bldg. RL-3, Rm. 620
Chair: Gifford Miller

- 3:00 **ARE CURRENT RATES OF ATMOSPHERIC NITROGEN DEPOSITION INDUCING BIOGEOCHEMICAL SHIFTS IN LAKES OF THE EASTERN CANADIAN ARCTIC?**
WOLFE, ALEXANDER P.; Cooke, Colin A.
- 3:15 **ASYNCHRONOUS ECOLOGICAL RESPONSES TO CLIMATIC CHANGE IN CANADIAN HIGH ARCTIC LAKES AND PONDS**
ANTONIADES, DERMOT; Douglas, Marianne SV.; Smol, John P.
- 3:30 **QUANTITATIVE PALEOCLIMATE RECONSTRUCTION FROM POLLEN ASSEMBLAGES PRESERVED IN ARCTIC LAKE SEDIMENTS**
FRÈCHETTE, BIANCA; de Vernal, Anne; Wolfe, Alexander P.; Fredskild, Bent; Kerwin, Micheal W.; Miller, Gifford H.; Richard, Pierre JH.
- 3:45 **CLIMATE CHANGES AND EVOLUTION OF NORDIC ECOSYSTEMS OF CANADA**
BHIRY, NAJAT

4:00 - 4:15 **Afternoon Break 2**

Oral Session **E Canada Glaciers and Cosmogenic Dating**
8 INSTAAR Auditorium, Bldg. RL-3, Rm. 620
Chair: Jason Briner

- 4:15 **RECENT CHANGES IN THE ICE CAPS AND GLACIERS OF CANADA'S ARCTIC ISLANDS**
SHARP, MARTIN; Copland, Luke; Burgess, David ; Williamson, Scott; Filbert, Katie ; Cawkwell, Fiona
- 4:30 **GLACIER FLUCTUATIONS AND LICHEN SIZE-FREQUENCY DISTRIBUTIONS (NUNAVUT - CANADA)**
MERCIER, GENEVIEVE; Lauriol, Bernard
- 4:45 **TRIMLINES AND RECENTLY EXPOSED TERRAIN AS INDICATORS OF RAPID CLIMATIC CHANGE IN THE QUEEN ELIZABETH ISLANDS, ARCTIC CANADA**
WOLKEN, GABRIEL
- 5:00 **LATE FOXE GLACIATION OF THE ASTON LOWLAND, BAFFIN ISLAND, NUNAVUT: SUPPORT FOR AN INTERMEDIATE ICE EXTENT IN THE EASTERN CANADIAN ARCTIC**
COULTHARD, ROY D.; Davis, P. Thompson; Briner, Jason P.; Miller, Gifford H.
- 5:15 **CONSIDERATIONS FOR THE DEVELOPMENT OF THE UNIVERSITY OF ALBERTA COSMOGENIC ISOTOPE LABORATORY**
DOUPÈ, JONATHAN P.; England, John H.; Litherland, A.E.; Zhao, X.-L.
- 5:30 **End of Day**

6:30 - 10:00pm **Dinner provided by Arctic Workshop**
Koenig Alumni Center, CU-Boulder Main Campus, 1202 University Ave.
(shuttle service provided from Boulder Inn to Koenig)

SATURDAY 13 MARCH

Oral Session **NW Canada**

9 INSTAAR Conference Room, Bldg. RL-1, Rm. 269
Chair: Scott Lamoureux

9:00am **PACKRATS OF BERINGIA: PALEOECOLOGY OF SMALL MAMMAL MIDDENS IN CENTRAL YUKON**

ZAZULA, GRANT D.; Mathewes, Rolf W.; Froese, Duane G.; Storer, John E.; Westgate, John A.; Sanborn, Paul T.

9:15 **RELICT MIDDLE PLEISTOCENE PERMAFROST IN CENTRAL YUKON TERRITORY**

FROESE, DUANE G.; Westgate, John A.; Preece, Shari J.; Mayer, Bernhard; Zazula, Grant D.; Reyes, Alberto V.

9:30 **DECADAL HYDROCLIMATIC VARIABILITY AS EVIDENCED BY THE SEDIMENTARY RECORD OF MIRROR LAKE, NORTHWEST TERRITORIES, CANADA**

TOMKINS, JESSICA D.; Lamoureux, Scott F.

9:45 **TREE-RINGS AS A HYDROMETEOROLOGICAL PROXY IN THE CARCROSS DESERT, YUKON TERRITORY, CANADA**

YOUNGBLUT, DON; Pisaric, Michael FJ.

10:00 **POTENTIAL CLIMATE CHANGE IMPACTS AND ADAPTATION FOR INFRASTRUCTURE IN NORTHERN COMMUNITIES UNDERLAIN BY PERMAFROST**

ROBINSON, STEPHEN D.; Couture, Rejean; Burgess, Margo M.; Smith, Sharon L.

10:15 **CENTENNIAL PHASING OF PACIFIC DECADAL VARIABILITY IN NORTHWEST NORTH AMERICA DURING THE PAST SEVEN CENTURIES**

COCKBURN, JACLYN MH.; Lamoureux, Scott F.

10:30 - 10:45 **Morning Break**

Oral Session **Europe, Russia, and More**

10 INSTAAR Conference Room, Bldg. RL-1, Rm. 269
Chair: Astrid Ogilvie

10:45 **HUMAN EVOLUTION AND THE COLONIZATION OF THE HIGHER LATITUDES**

HOFFECKER, JOHN F.

11:00 **TOWARDS A TEPHROCHRONOLOGY FRAMEWORK FOR THE LAST GLACIAL/INTERGLACIAL TRANSITION IN SCANDINAVIA AND THE FAROE ISLANDS**

WASTEGÅRD, STEFAN; Davies, Siwan M.; Turney, Chris SM.; Wohlfarth, Barbara

11:15 **THE CELTIC DEEP PALAEOLAKE: EVIDENCE FOR A LARGE DEGLACIAL LACUSTRINE SYSTEM AT THE SOUTHERN MARGIN OF THE BRITISH ICE-SHEET AND ITS IMPLICATIONS FOR DEGLACIAL SEA-LEVELS ON THE NW EUROPEAN CONTINENTAL SHELF**

FURZE, MARK FA.

11:30 - 1:00 **Lunch break (location is your choice)**

SATURDAY 13 MARCH

Oral Session **Alaska & W Canada**
11 INSTAAR Conference Room, Bldg. RL-1, Rm. 269
Chair: Martin Sharp

- 1:00 **INTRABASINAL VARIABILITY OF HOLOCENE TEPHRA IN A SMALL KETTLE LAKE, LORRAINE LAKE, UPPER COOK INLET, ALASKA**
KATHAN, KASEY; Werner, Alan ; Kaufman, Darrell; de Fontaine, Christian; Kingsbury, Esther
- 1:15 **A COMPLEX ORIGIN FOR LATE QUATERNARY LOESS IN CENTRAL ALASKA, USA**
MUHS, DANIEL R.; Budahn, James R.
- 1:30 **A TIME-TRANSGRESSIVE TILL ACCRETION AND BED DEFORMATION HYPOTHESIS**
LARSEN, NICOLAJ K.; Piotrowski, Jan A.; Kronborg, Christian ; Wysota, Wojcieck
- 1:45 **SLIDING AND THE GROWTH AND DECAY OF CAVITIES BENEATH AN ALPINE GLACIER: RESULTS FROM BENCH GLACIER, ALASKA**
ANDERSON, ROBERT S.; Anderson, Suzanne P.; MacGregor, Kelly R.; Waddington, Edwin D.; O'Neel, Shad; Riihimaki, catherine A.; Loso, Michael G.
- 2:00 **A FORCE BALANCE ANALYSIS OVER THE LOWER REACHES OF COLUMBIA GLACIER, ALASKA DURING ITS RAPID RETREAT**
O'NEEL, SHAD; Pfeffer, Tad; Krimmel, Robert; Meier, Mark
- 2:15 **TESTING A GLACIAL EROSION RULE USING STEP HEIGHTS OF HANGING VALLEYS, JASPER NATIONAL PARK, CANADA**
AMUNDSON, JASON M.; Iverson, Neal R.
- 2:30 **THE MECHANICAL-CHEMICAL WEATHERING LINKAGE: GLACIER EROSION AND SOLUTE FLUXES**
ANDERSON, SUZANNE P.
- 2:45 **COLUMBIA GLACIER, TIDEWATER INSTABILITY AND UPGLACIER PROPAGATION OF KINEMATIC WAVES**
PFEFFER, W TAD.; O'Neel, Shad; Krimmel, Robert M.
- 3:00 **End of Meeting!**

Thanks for participating!