

Program and Abstracts
30th Arctic Workshop

March 16-18, 2000

Institute of Arctic and Alpine Research
University of Colorado, Boulder, CO USA

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THE 30TH INTERNATIONAL ARCTIC WORKSHOP

PROGRAM

MARCH 16-18, 2000

Institute of Arctic and Alpine Research
University of Colorado, Boulder
1560 30th Street
Campus Box 450
Boulder, Colorado 80309-0450

Organizing Committee:

Anne Jennings
William Manley
John T. Andrews
James Syvitski
Astrid Ogilvie
Nan Elias
Scott Elias
Ashley Holladay

Introduction

The 30th Annual International Arctic Workshop will be held March 16-18, 2000, 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 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.

Workshop Location: The Icebreaker, registration, and dinner party will be held in the INSTAAR Conference Room, Bldg. RL-1, 1560 30th St., Rm. 269. Posters will be in the 2nd Floor hallways of Bldg. RL-1, adjacent to the Conference Room. Oral presentations will be in the INSTAAR Auditorium, Bldg. RL-3, Rm. 620. Bldg. RL-3 is immediately east of Bldg. RL-1.

Registration: Please register at the Icebreaker starting at 5 PM on Wed., March 15th, or starting at 8 AM on Thurs., March 16th, in Room 269 in Bldg. RL-1. 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 Fri., March 17th. At registration will you receive information on where to set up your poster.

Acknowledgements: The Arctic Workshop each year is partially subsidized for travel costs through a grant from the U.S. National Science Foundation (grant OPP-9614129), for which we are grateful. Efforts of the Organizing Committee, led by Dr. Anne Jennings, made the event possible. We especially wish to thank Dr. John Andrews for his long-term commitment to the workshops.

SUMMARY AGENDA:

WEDNESDAY, MARCH 15th, 2000

Icebreaker & Registration 5:00-7:00 PM RL-1 Rm. 269

THURSDAY, MARCH 16th, 2000

Registration 8:00 - 8:45 AM RL-1 Rm. 269
Welcome & Introduction 8:45 - 9:00 AM RL-3 Rm. 620
COLDSEIS 9:00 - 10:30 AM RL-3 Rm. 620
Paleoceanography 10:45 AM - 12:15 PM RL-3 Rm. 620
Lunch Break
Terrestrial Paleoenvironments 1 1:30 - 3:00 PM RL-3 Rm. 620
Arctic Lakes Paleoenvironments 3:15 - 5:00 PM RL-3 Rm. 620
PARCS Reception to follow talks RL-3 Rm. 620

FRIDAY, MARCH 17th, 2000

Continental Breakfast 8:00 - 10:00 AM RL-1 Rm. 269
Poster Session 8:00 - 11:30 AM RL-1 second floor
Lunch Break
Arctic Terrestrial Paleoenvironments 2 12:45 - 2:45 PM RL-3 Rm. 620
Paleoecology and Archeology of SE Alaska 3:00 - 4:15 PM RL-3 Rm. 620
Contributed Papers 4:15 - 5:45 PM RL-3 Rm. 620
Dinner Party 6:30 PM RL-1 Rm. 269

SATURDAY, MARCH 18th, 2000

Environmental Geochemistry 8:30 - 9:45 AM RL-3 Rm. 620
Human Dimensions of the Arctic 10:00 - 11:15 AM RL-3 Rm. 620
Box Lunch (provided) RL-1 Rm. 269
Quaternary Geology 1 12:15 - 1:45 PM RL-3 Rm. 620
Quaternary Geology 2 2:00 - 3:30 PM RL-3 Rm. 620

WEDNESDAY, MARCH 15TH

WEDNESDAY, MARCH 15, 2000

ICEBREAKER & REGISTRATION

5:00-7:00 PM

INSTAAR Conference Room, Bldg. R1-1, Rm. 269

THURSDAY, MARCH 16, 2000

REGISTRATION

8:00-8:45 AM

INSTAAR Conference Room, Bldg. R1-1, Rm. 269

WELCOME AND INTRODUCTION -- James Syvitski

8:45-9:00 am

INSTAAR Auditorium, Bldg. R1-3, Rm. 620

COLDSEIS

Chair: James Syvitski

- 9:00-9:15 THE NORWEGIAN-GREENLAND SEA CONTINENTAL MARGINS: LATE QUATERNARY SEDIMENTARY PROCESSES AND ENVIRONMENT
VORREN, TORE O., Laberg and Jan Sverre
- 9:15-9:30 LATE WEICHSELIAN AND HOLOCENE SEDIMENT FLUX AND SEDIMENTATION RATES IN ANDFJORD AND VAAGSFJORD, NORTH NORWAY
PLASSEN, LIV; Vorren, Tore O.
- 9:30-9:45 HOLOCENE SEDIMENT ACCUMULATION RATES ON THE CONTINENTAL SHELVES BORDERING DENMARK STRAIT: ESTIMATES FROM 210PB AND COMPARISONS WITH 14C DATA
L. MICAELA SMITH, Clark Alexander, and Anne Jennings
- 9:45-10:00 THE DYNAMICS OF MARINE GLACIER TERMINI READ FROM MORaine ARCHITECTURE
LØNNE, IDA
- 10:00-10:15 SEISMIC SEQUENCE ARCHITECTURE OF THE YAKATAGA FORMATION, NORTHEASTERN GULF OF ALASKA
COOPER, JAMES M. and Powell, Ross D. ALASKAN
- 10:15-10:30 SEDIMENT YIELDS AND EROSION RATES DETERMINED FROM SEISMIC REFLECTION DATA
POWELL, ROSS D. and Cooper, James M.

THURSDAY, MARCH 16TH

10:30-10:45 am

MORNING BREAK

Paleoceanography

Chair: John Andrews

- 10:45-11:00 SEA-SURFACE TEMPERATURE VARIABILITY IN THE NORWEGIAN SEA WITH DECADAL SCALE RESOLUTION DURING THE LAST 3000 YEARS
KOÇ, NALAN; Andersen, Cathrine; Jansen, Eystein; Birks, John
- 11:00-11:15 SST-RECONSTRUCTIONS FROM THE NORWEGIAN SEA AND THE DENMARK STRAIT DURING THE "LITTLE ICE AGE"
ANDERSEN, CATHRINE; KOÇ, Nalan; Jennings, Anne; Alexander, Clark; Jansen, Eystein
- 11:15-11:30 ENVIRONMENTAL AND PALEOMAGNETIC RECORD FROM LABRADOR SEA CORE MD95-2024: MILLENNIAL SCALE MARINE SEDIMENT TO ICE CORE CORRELATIONS OVER THE LAST 110 KYR
STONER, Joseph S; Hillaire-Marcel, Claude; Bilodeau, Guy;
- 11:30-11:45 PATTERNS OF GLACIAL SEDIMENT TRANSPORT TO THE NW LABRADOR SEA: DATA FROM GEOCHEMICAL PROVENANCE STUDIES
BARBER, DONNY
- 11:45-12:00 SEDIMENT MINERALOGY OF THE EURASIAN SHELVES AND THE ARCTIC OCEAN
VOGT, Christoph
- 12:00-12:15 DECADAL VARIABILITY OF THE GREENLAND ICE SHEET MASS BALANCE AS A CAUSE OF SALINITY-ICE-TEMPERATURE ANOMALIES IN THE NORTH ATLANTIC
BELKIN, IGOR

12:15- 1:30 pm

LUNCH BREAK

Arctic Terrestrial Paleoenvironments 1

Chair: Bill Manley

- 1:30-1:45 THE AHKLUN MOUNTAINS PROJECT, FROM TOGIAK BAY TO MT. WASKEY, SW ALASKA
AMP PROJECT MEMBERS*
DARRELL S. KAUFMAN, Yarrow L. Axford, Jason P. Briner, Joseph C. Cain, Kathleen R. Carey, Alison E. Feinberg, Steve L. Forman, Irene Gregory-Eaves, Feng Sheng Hu, Paul W. Layer, Laura B. Levy, William F. Manley, Shari J. Preece, Al Werner, John A. Westgate

THURSDAY, MARCH 16TH

- 1:45-2:00 LACUSTRINE RECORD OF DEGLACIATION IN THE AHKLUN MOUNTAINS, SW ALASKA: ICE RETREAT DURING THE YOUNGER DRYAS
AXFORD, YARROW; Kaufman, D.S.; Gregory-Eaves, I.
- 2:00-2:15 LATE PLEISTOCENE SEASONAL TEMPERATURES IN EASTERN BERINGIA, BASED ON FOSSIL BEETLE ASSEMBLAGES
ELIAS, SCOTT
- 2:15-2:30 RECONSTRUCTING THE LATE-HOLOCENE HISTORY OF A SUBALPINE ENVIRONMENT USING FOSSIL INSECTS
LAVOIE, CLAUDE
- 2:30-2:45 PROMISES AND PROBLEMS OF INFERRING CLIMATIC CHANGE SIGNALS FROM GEOTHERMAL GRADIENTS
TINGJUN ZHANG; Roger G. Barry
- 2:45-3:00 ONSET OF MID-PLIOCENE PERMAFROST AND THE PRE-GLACIAL TO GLACIAL TRANSITION IN THE KLONDIKE AREA, YUKON TERRITORY
FROESE, DUANE, G., Preece, Shari, and Westgate, John

3:00-3:15

AFTERNOON BREAK

Arctic Lakes Paleoenvironments

Chair: Gifford Miller

- 3:15-3:30 A 90,000-YEAR RECORD OF FOSSIL CHIRONOMID AND CLIMATE CHANGE AT FOG LAKE, BAFFIN ISLAND
FRANCIS, DONNA ; Wolfe, Alex; Walker, Ian; Miller, Gifford
- 3:30-3:45 CLIMATIC REGULATION OF ACID-BASE EQUILIBRIUM IN ARCTIC LAKES ON MILLENIAL TIMESCALES
WOLFE, Alexander Paul
- 3:45-4:00 AN ANNUAL SNOW MELT INTENSITY RECORD IN LACUSTRINE SEDIMENTS OF SAWTOOTH LAKE, ARCTIC CANADA
FRANCUS PIERRE; Abbott Mark; Bradley Ray; Keimig Frank; Perren, Bianca; Patridge Whit.
- 4:00-4:15 A LATE QUATERNARY RECORD OF LOESS DEPOSITION IN A MAAR LAKE, ST. MICHAEL ISLAND, WESTERN ALASKA
MUHS, DANIEL R.; Ager, Thomas A.; Dean, Walter E.
- 4:15-4:30 MIGRATION AND CYCLE OF SULPHUR IN A SUBARCTIC LAKE
DAUVALTER VLADIMIR; Moiseenko Tatyana

THURSDAY, MARCH 16TH

- 4:30-4:45 MILLENNIAL-SCALE GLOBAL EVENTS RECORDED IN EL'GYGYTGYN CRATER LAKE, EASTERN SIBERIA
BRIGHAM-GRETTE, J., Glushkova, O.; Minyuk P.; Melles M., Nowaczyk, N. R., Lozhkin, A.V., Anderson P., Cherepanov, M.V., Cosby, C, Layer P., Forman, S. L.
- 4:45-5:00 RAPID ECOLOGICAL RESPONSE TO CLIMATIC CHANGE: THE PRELIMINARY DIATOM RECORD FROM SAWTOOTH LAKE, ELLESMERE ISLAND
PERREN, BIANCA; Bradley, R.S.; Francus, P.

PARCS Reception to follow afternoon talks, Bldg. R1-3, Rm. 620

FRIDAY MARCH 17, 2000

CONTINENTAL BREAKFAST

8:00-10:00 AM
INSTAAR Conference Room, Bldg. R1-1, Rm. 269

POSTER SESSION

8:00 AM- 11:30 AM
Bldg. RL-1, 2ND FLOOR

PERIGLACIAL PROCESSES AND PERMAFROST

- 1 A HISTORY OF PERMAFROST IN ALASKA: WARMING, THAWING AND THERMOKARST FORMATION
OSTERKAMP, T. E.; Romanovsky, V. E.
- 2 OBSERVATIONS OF THERMOKARST AND ITS IMPACT ON BOREAL FORESTS IN ALASKA
OSTERKAMP, T. E.; Viereck, L.; Shur, Y.; Jorgenson, M. T.; Racine, C.; Doyle, A.; and Boone, R. D.
- 3 CHEMICAL COMPOSITION ACCOMPANIED WITH ENZYMATIC ACTIVITY OF GROUND ICE IN CHUKOTKA AND WESTERN SIBERIA
VASIL'CHUK, YURIJ, Alla Vasil'chuk and Nadine Budantseva
- 4 POLLEN AND SPORES IN PALSAS AND PINGO ORIGIN STUDY
VASIL'CHUK, ALLA
- 5 RE-DEPOSITED POLLEN IN PERMAFROST AS AGE AND ORIGIN INDICATOR OF GROUND ICE
VASIL'CHUK, ALLA

PALEOECOLOGY

6 THE PALEOECOLOGICAL ANALYSIS OF A SUBALPINE PERMAFROST
PEATLAND (QUEBEC-LABRADOR)
ZIMMERMANN, CLAUDIA; Lavoie, Claude

ECOSYSTEM DYNAMICS

7 REINDEER POPULATION DENSITY IMPACT ON FORAGE BIODIVERSITY
ODASZ-ALBRIGTSEN, ANN MARIE

ARCHEOLOGY

8 LATE QUATERNARY SEDIMENTS AT 49-PET-408 (ON YOUR KNEES CAVE),
SOUTHEASTERN ALASKA
SATTLER, ROBERT A.

9 SEA ICE AND SEAL FAUNAS IN LABRADOR INUIT ARCHAEOLOGICAL SITES
WOOLLETT, JIM

10 TEMPERATURE VARIATION AND DEMOGRAPHY IN LATE PREINDUSTRIAL
ICELAND
VASEY, DANIEL E

CLIMATE

11 SUBLIMATION ESTIMATES FOR THE GREENLAND ICE SHEET
USING AUTOMATED WEATHER STATION OBSERVATIONS
BOX, JASON E. and Konrad Steffen

12 TOTAL COLUMN MEASUREMENTS OF TROPOSPHERIC GASES IN ARCTIC,
SPITSBERGEN, AND MIDLATITUDES, POTSDAM
TORSTEN ALBRECHT, Justus Notholt

13 THE INVESTIGATION AND DATING OF TRANSBOUNDARY AIR POLLUTION
FOUND IN SOUTHERN GREENLAND. METHODS, TECHNIQUES, AND PRELIMINARY
RESULTS
GOODSITE, M.E.; Lohse, C.; Hansen, T.S.; Shotyk, W.; Frei, R.; Heinemeier, J.; Appleby, P.G.

14 THE ARCTIC FRONTAL ZONE: ANALYSIS, OBSERVATION AND MODELING
SLATER, ANDREW; Beringer, Jason; Chapin, Terry; Clark, Martyn; Lynch, Amanda;
McHugh, Ian; Serreze, Mark; Tapper, Nigel

15 GEOSTATISTICAL CHARACTERIZATION OF ICE-SURFACE MORPHOLOGIES -
RESULTS FROM EXPEDITIONS MICROTOP 97 AND MICROTOP 99 TO JAKOBHAVNS
ISBRAE, WEST GREENLAND
HERZFELD, UTE C.; Helmut Mayer; Tim Erbrecht

SEA ICE

16 ARCTIC SEA ICE AND CIRCULATION ANOMALIES: THE INFLUENCE OF OSCILLATIONS

CULLATHER, RICHARD; Lynch, Amanda; Maslanik, James

17 SEA ICE MOTION FROM SATELLITE DATA

LIU, ANTONY; ZHAO, YUNHE

ENVIRONMENTAL HAZARDS

18 EFFECT OF GEOMAGNETIC FIELD FLUX ON HUMAN AUDITORY AND VISUAL EVENT-RELATED BRAIN POTENTIALS

HARTMANN, ANITA; Geist, Charles

19 ACCUMULATION OF HEAVY METALS IN SEDIMENTS AND WHITEFISH OF KOLA PENINSULA LAKES, MURMANSK REGION, RUSSIA

DAUVALTER VLADIMIR; Moiseenko Tatyana

GLACIAL GEOLOGY

20 SEDIMENTARY ARCHITECTURE OF A WAVE-MODIFIED ICE-CONTACT DELTA: GROUND PENETRATING RADAR STUDY OF THE YOUNGER DRYAS MONA MORaine IN SOUTHERN NORWAY

LØNNE, IDA; NemeC, W.; Blikra, L.H.; Lauritsen, T.

21 THE KREGNES MORAIN IN GAULDALEN: ANATOMY OF A YOUNGER DRYAS PROGLACIAL DELTA IN A PALAEOFJORD

LØNNE, I., NemeC, W. & Blikra, L.H.

22 MODELLING THE VARIATIONS IN GLACIAL COVERAGE OF ICELAND

WEBB, FERN ; Bjornsson, H.; Marshall, S.J.; Clarke, G.K.C.

23 LATITUDINAL VARIATIONS IN THE TIMING OF ALPINE GLACIER RETREAT FROM LGM, SOUTHERN SOUTH AMERICA

JACKOFSKY, D. S.; Gosse, J. C.; Cerling, T. E.; Evenson, E. B.; Klein, J.; Easterbrook, D. J.; Peterson, K. P., Spies, C., Sorenson, C. J.; Caffee, M.

24 THE PALEOGEOGRAPHY OF GLACIAL LAKE CHAMPAGNE, SOUTHERN YUKON: IMPLICATIONS FOR THE LAST DEGLACIATION

BARNES, SCOTT

LIMNOLOGY

25 MODERN SURFACE WATER ISOTOPE RATIOS: RELATIONSHIPS AND INFERENCES FOR LAKE SEDIMENT CORE $\delta^{18}\text{O}$ PALEOCLIMATE RECONSTRUCTIONS

ANDERSON, L.; Abbott, M.B.; Finney, B.P.; Edwards, M.E.

26 A RECENT ASSESSMENT OF THE PHYSICAL LIMNOLOGY AND
SEDIMENTOLOGY OF MONTANE MEZIADIN LAKE, NORTHERN BRITISH
COLUMBIA, CANADA
BUTLER, RICHARD D.; Gilbert, Robert

27 PROCESSES OF CLASTIC SEDIMENTATION AT BEAR LAKE, DEVON ISLAND
LEWIS, TED; Gilbert, Robert; Lamoureux, Scott

PALEOLIMNOLOGY

28 PROBLEMS WITH USING SEDIMENTS FROM SMALL ALPINE LAKES AS
PROXIES FOR CLIMATE CHANGE.
MAZZUCCHI, DAVID

29 LAMINATED SEDIMENTS FROM CAPE HURD LAKE, A COASTAL ISOLATION
BASIN, SOUTHWESTERN DEVON ISLAND, NUNAVUT, CANADA
RETELLE, MICHAEL, Jeffrey Hershberger, Sarah Roberts, Benjamin Trafton

30 CHIRONOMID DISTRIBUTIONS AND THEIR RELATIONSHIP TO PAST AND
PRESENT ENVIRONMENTAL CONDITIONS IN NORTHWESTERN CANADA
WALKER, IAN R.; Levesque, André J.; Pienitz, Reinhard; and Smol, John P.

31 LAKE LEVEL RECONSTRUCTIONS FROM SITES IN CENTRAL ALASKA, THE
BROOKS RANGE, AND THE YUKON TERRITORY
ABBOTT, MARK; Finney, Bruce ; Edwards, Mary and Anderson, Lesleigh

32 SEDIMENTOLOGICAL EVIDENCE FOR CIRCUMARCTIC CLIMATIC CHANGE
FROM EL'GYGYTGYN LAKE, NE RUSSIA
COSBY, CELESTE A.; Brigham-Grette, Julie

33 MILLENNIAL-SCALE GLOBAL EVENTS RECORDED IN EL'GYGYTGYN
CRATER LAKE, EASTERN SIBERIA
BRIGHAM-GRETTE, J., Glushkova, O.; Minyuk P.; Melles M.; Nowaczyk, N. R.; Lozhkin,
A.V.; Anderson P.; Cherepanov, M.V.; Cosby, C.; Layer P.; Forman, S. L.

34 VIVIANITE FORMATION AND IMPLICATIONS FOR CLIMATIC CHANGE FROM
EL'GYGYTGYN LAKE, NE RUSSIA
HAYDEN, TRENT; Brigham-Grette, Julie; Cosby, Celeste; Minyuk, Pavel; Glushkova, Olga;
Melles, Martin

35 LACUSTRINE RECORD OF THE LAST GLACIATION FROM AROLIK LAKE,
AHKLUN MOUNTAINS, SOUTHWESTERN ALASKA
BRINER, J.P., Kaufman, D.S., Hu, F.S., Werner, A., Cain, J.C., Lee, B.Y., and Gregory-Eaves,
I.

36 A 12,000 YEAR LACUSTRINE RECORD FROM NIMGUN LAKE (AND CORRELATIONS WITH LITTLE SWIFT LAKE), AHKLUN MOUNTAINS, SOUTHWESTERN ALASKA

BRINER, J.P., Kaufman, D.S., Axford, Y., Hu, F.S., Lee, B.Y.

37 MAJOR-ELEMENT GEOCHEMISTRY AND SEDIMENT PROVENANCE IN A GLACIALLY-INFLUENCED LAKE: NORTHWESTERN AHKLUN MOUNTAINS, SW ALASKA

CAREY, KATHLEEN R.;Axford, Yarrow L.;Kaufman, Darrell S.

38 EVIDENCE OF HOLOCENE GLACIAL ACTIVITY FROM THE AHKLUN MOUNTAINS, SOUTHWESTERN ALASKA

FEINBERG, ALISON E., Werner, Al

39 A LATE QUATERNARY RECORD OF GLACIER FLUCTUATIONS, WASKEY LAKE AND MIRROR BAY, AHKLUN MOUNTAINS, SOUTHWESTERN ALASKA

LEVY, LAURA; Kaufman, Darrell; Manley, William

MARINE GEOLOGY

40 DEMONSTRATION OF GIS APPLICATIONS TO PALEOGLACIOLOGY, GLACIOLOGY, AND BATHYMETRY, ALASKA

MANLEY, William F.

41 THE INTERNATIONAL BATHYMETRIC CHART OF THE ARCTIC OCEAN (IBCAO): IMPROVING OUR KNOWLEDGE OF THE SEAFLOOR IN THE HIGH NORTH DIVINS, DAVID L., IOC/IASC/IHO Editorial Board for the International Bathymetric Chart of the Arctic Ocean

42 SEABED MORPHOLOGY OF HUDSON STRAIT AND UNGAVA BAY: A FUNCTION OF BEDROCK STRUCTURES, EROSION, AND SURFICIAL SEDIMENT DEPOSITS

MACLEAN, BRIAN

43 SEDIMENTOLOGICAL ANALYSES OF THREE PISTON CORES FROM HUNAFLOI, NORTH ICELAND SHELF

CASTANEDA, ISLA S.; PRINCIPATO, SARAH M.

44 CHANGES IN THE CARBONATE CONTENT OF CORES ON THE NORTHERN ICELAND SHELF: HIGH-RESOLUTION (DECADAL) RECORDS OF SURFACE PRODUCTIVITY?

ANDREWS, JOHN T. , Helgadottir, G., Geirsdottir, A., Sveinbjornsdottir, A.

45 LATE GLACIAL AND HOLOCENE SEDIMENTARY PROCESSES AND ENVIRONMENTS, RANAFJORD, NORTH NORWAY: PRELIMINARY RESULTS
Stalsberg, Martha K. Eiliv; Lingva, Oddvar; Sejrup, Hans Petter; & AARSETH, INGE

FRIDAY, MARCH 17TH

46 DECIPHERING THE LATEST PLEISTOCENE AND HOLOCENE FLUXES OF FRESHWATER AND ATLANTIC WATER TO THE DEEP NORTHERN BARENTS AND KARA SEAS

LUBINSKI, DAVID; Polyak, Leonid; Forman, Steven

47 COMPARISON OF SEA-ICE SEDIMENT TO ICEBERG RAFTED DEBRIS: GRAIN SIZE, SURFACE FEATURES AND GRAIN SHAPE

DUNHILL, GITA; Reimnitz, Erk

48 SEDIMENT TRAP RECORDS OF DEPOSITION IN LALLEMAND FJORD ADJACENT TO MULLER ICE SHELF, ANTARCTIC PENINSULA

CHONG, SA; Gilbert, Robert

11:30-12:45

LUNCH BREAK

Arctic Terrestrial Paleoenvironments 2

Chair: Alex Wolfe

INSTAAR Auditorium, Bldg. R1-3, Rm. 620

12:45-1:00 EFFECTIVE MOISTURE AND EARLY-HOLOCENE SPRUCE (PICEA) EXPANSION IN EASTERN INTERIOR ALASKA.

EDWARDS, M.E.; Finney, B.F.; Bigelow, N.H.; and Abbott, M.B.

1:00-1:15 HOLOCENE PRECIPITATION VARIABILITY IN INTERIOR ALASKA

FINNEY, BRUCE; Edwards, Mary; Abbott, Mark; Barber, Valerie; Anderson, Lesleigh; Rohr, Melanie

1:15-1:30 PALYNOLOGICALLY-INFERRED ARCTIC VEGETATIONAL CHANGES RELATIVE TO SUB-MILLENIAL LATE HOLOCENE CLIMATIC VARIABILITY : ARE THE MWP AND THE LIA REGISTERED?

FRECHETTE, BIANCA; Wolfe, Alexander P.; Richard, Pierre J.H. and Miller, Gifford H.

1:30-1:45 THE EDGE PARADOX: A ZONE OF ORDER OR CHAOS? AN ICELANDIC CASE STUDY INVESTIGATING FACTORS CONTROLLING THE HIGH LATITUDE FOREST LIMIT

BROOKE PARRY; Kristiina A. Vogt; Throstur Eysteinnsson; Bruce C. Larson; Daniel J. Vogt

1:45-2:00 MICROSCALE PLANT DISTRIBUTION IN A POLAR DESERT COMMUNITY ON AXEL HEIBERG ISLAND, NUNAVUT TERRITORY, CANADA

LIPTZIN, DANIEL

FRIDAY, MARCH 17TH

- 4:30-4:45 HIGH RESOLUTION ARCTIC WINTER SIMULATIONS IN A REGIONAL CLIMATE MODEL
DETHLOFF, KLAUS; Rinke, Annette; Dorn, Wolfgang; Kandlbinder, Thomas; Romanov, Vladimir*
- 4:45-5:00 ARCTIC HAZE, CLOUDS, AND CLIMATE
RADKE, LAWRENCE F.; Ogren, John; Stone, Robert S.; Andrews, Elizabeth A.; Dutton, Ellsworth G.
- 5:00-5:15 CLIMATIC EFFECT OF ARCTIC HAZE
RINKE,ANNETTE; Fortmann, Martin; Dethloff, Klaus
- 5:15-5:30 MINIMUM SNOW COVER EXTENT AND SNOW COVER DYNAMIC OF A LOW ARCTIC SITE (ABISKO, NORTH SWEDEN) DERIVED FROM LANDSAT 7 IMAGES
Stefan Vogel
- 5:30-5:45 PRODUCTIVITY OF WILLOW-SHRUB TUNDRA IN CONNECTION WITH LANDSLIDE ACTIVITY
N.G.UKRAINTSEVA; M.O.Leibman

DINNER PARTY: 6:30 PM RL-1, INSTAAR, RM 269

SATURDAY, MARCH 18, 2000

Environmental Geochemistry

Chair: Anne Jennings

- 8:30-8:45 HYDROGEOLOGY AND HYDROGEOCHEMISTRY OF PERMAFROST ZONE OF DALDYN-ALAKIT REGION (WESTERN YAKUTIA)
PINNEKER, EUGENE; Alexeev, Sergey; Alexeeva, Ludmila
- 8:45-9:00 DYNAMICS OF DRAINAGE WATER COMPOSITION DURING DEVELOPMENT OF DIAMOND MINING QUARRIES (WESTERN YAKUTIA, RUSSIA)
ALEXEEV, SERGEY; Alexeeva, Ludmila; Borisov, Valeriy
- 9:00-9:15 CONTAMINANT LANDSCAPES OF ARCTIC ALASKA AND SIBERIA
JESSE FORD, BRENDA K. LASORSA, MATTHEW MONETTI, TATIANA VLASOVA, AND DIXON LANDERS
- 9:30-9:45 A COMPARISON OF LEAD AND MERCURY CONCENTRATIONS FROM A SOUTHERN GREENLAND AND DANISH MIRE
GOODSITE, M.E.; Lohse, C.; Hansen, T.S.; Shotyk, W.; Frei, R.; Heinemeier, J.; Appleby, P.G.

SATURDAY, MARCH 18TH

9:45-10:00

MORNING BREAK

Human Dimensions of the Arctic

Chair: Astrid Ogilvie

- 10:00-10:15 PIGS, GOATS, AND ANDISOLS: ZOOARCHAEOLOGY AND LANDSCAPE CHANGE IN ICELAND
McGOVERN, THOMAS, PERDIKARIS, SOPHIA, TINSLEY, CLAYTON
- 10:15-10:30 TEMPERATURE VARIATION AND DEMOGRAPHY IN LATE PREINDUSTRIAL ICELAND
VASEY, DANIEL E
- 10:30-10:45 TEPHROCHRONOLOGY, ENVIRONMENTAL CHANGE AND HISTORICAL ECOLOGY IN SOUTH ICELAND
DUGMORE, ANDREW; Larsen, Gudrun; Newton, Anthony; Simpson, Ian
- 10:45-11:00 ADDRESSING THE AGE DISCREPANCY IN MARITIME ARCHAIC INDIAN OCCUPATION OF SOUTHERN LABRADOR AND THE ISLAND OF NEWFOUNDLAND
BELL, TREVOR; Renouf, Priscilla
- 11:00-11:15 AN ARCHAEOLOGICAL SURVEY OF SKOLAI PASS – WRANGELL - ST. ELIAS NATIONAL PARK AND PRESERVE, ALASKA
MARK L. HOWE

11:15-12:00

BOX LUNCH

INSTAAR Conference Room, Bldg. RI-1, Rm. 269

Quaternary Geology 1

Chair: Mike Kaplan

- 12:15-12:30 COSMOGENIC NUCLIDE STRATEGIES FOR RELATIVE SEA LEVEL HISTORIES
GOSSE, JOHN; Klein, Jeff; Dyke, Art; Caffee, Marc POST GLACIAL
- 12:30-12:45 SEA-LEVEL CHANGES AND GLACIAL FOREBULGES AROUND NORTH AMERICA AND ICELAND-IMPLICATIONS FOR FOREBULGE MOVEMENT AND RATES OF CRUSTAL ADJUSTMENT
JOSEPHANS, HEINER
- 12:45-1:00 ICE WEDGES, CRYOTURBATIONS AND ICE-WEDGE CASTS IN THE OUTCROP "MERZLIY YAR" (TUVA REPUBLIC)
ALEXEEV, SERGEY; Arzhannikov, Sergey; Glyzin, Alexander.

SATURDAY, MARCH 18TH

- 1:00-1:15 LITHOSTRATIGRAPHY AND GLACIOTECTONICS OF CAPE SHPINDLER, YUGORSKY PENINSULA, ARCTIC RUSSIA
LOKRANTZ, HANNA; Ingolfsson, Olafur; Manley, William; Gataullin, Valery
- 1:15-1:30 LATE QUATERNARY PALAEOENVIRONMENTAL HISTORY OF PRINS KARLS FORLAND, WESTERN SVALBARD
ANDERSSON, TORBJORN
- 1:30-1:45 EROSION MARKS IN BEDROCK AT KANGERLUSSUAK, GREENLAND: RELATION TO CONTINENTAL GLACIAL PROCESSES
GILBERT, ROBERT

1:45-2:00

AFTERNOON BREAK

Quaternary Geology 2

Chair: Heiner Josenhans

- 2:00-2:15 LATE GLACIAL-EARLY HOLOCENE LANDSCAPE EVOLUTION OF THE CHAPMAN LAKE AREA, YUKON TERRITORY, CANADA
BEIERLE, BRANDON
- 2:15-2:30 HAS THE NORTHERN GASPE PENINSULA EVER BEEN INVADED BY AN ICE SHEET FROM QUEBEC-LABRADOR ?
CSIKI, MAGDALENA; Gray, James; Hetu, Bernard; Gagnon, Sylvain; Marquette, Genevieve
- 2:30-2:45 STUDIES ON FELSENMEER-COVERED SURFACES IN THE TORNGAT MOUNTAINS, NORTHERN QUEBEC-LABRADOR
MARQUETTE, GENEVIEVE; Gray, James T.; Courchesne, Francois; Gosse, John
- 2:45-3:00 MORPHOLOGICAL EVIDENCE FOR LATE GLACIAL INVASION OF THE WESTERN FLANKS OF THE NORTHERN LABRADOR PENINSULA BY HUDSON STRAIT AND UNGAVA BAY ICE AND ¹⁴C DATING OF THE SHEPPARD MORAINES
GRAY, JAMES; Decker, Vincent; Jull, Timothy; Gray, Alexander #
- 3:00-3:15 THE CIRQUES OF SOUTHEAST CUMBERLAND PENINSULA, BAFFIN ISLAND: IMPLICATIONS FOR THE GLACIO-CLIMATIC HISTORY OF THE REGION
KAPLAN, MICHAEL, R.
- 3:15-3:30 GOLDBLOCKS' COMPROMISE LOOKING GOOD: NEW EVIDENCE FROM HIGH-ELEVATION BAFFIN ISLAND LAKES
MILLER, Gifford; Wolfe, Alex; Steig, Eric; Kaplan, Michael; Briner, Jason