

Arctic Workshop 2013

Program Summary

SUNDAY 10 MARCH

9:00 – 4:00	Pre-workshop field trip	<i>Hotel Lobby</i>
7:00 – 9:30	Evening reception, Check-In, Registration (load presentations onto computer)	<i>Level 11</i>

MONDAY 11 MARCH

8:00 – 8:30	Check-in & Registration (load presentations onto computer)	<i>Level 2 Reading Room</i>
8:45	Welcome & Introduction	<i>Level 2 Reading Room</i>
9:00	Paleoceanography I	<i>Level 2 Reading Room</i>
10:10	Morning Break	<i>Level 1 Auditorium</i>
10:40	Paleoceanography II	<i>Level 2 Reading Room</i>
12:00	LUNCH	-
1:00 pm	Glacial History	<i>Level 2 Reading Room</i>
3:50	Afternoon Break	<i>Level 1 Auditorium</i>
4:00	POSTERS I (odd-numbered posters)	<i>Level 1 Auditorium</i>
6:00	End of session	<i>Level 1 Auditorium</i>
6:30	Non-student Dinner	<i>Julie B-G's house</i>
7:00	Student-only Pizza Party	<i>University Club</i>

TUESDAY 12 MARCH

9:00	Paleolimnology	<i>Level 2 Reading Room</i>
10:30	Morning Break	<i>Level 1 Auditorium</i>
10:50	Modelling	<i>Level 2 Reading Room</i>
12:10	LUNCH	-
1:20 pm	Special Talk (Kevin Knobloch, UCS)	<i>Level 2 Reading Room</i>
1:50	Glaciology	<i>Level 2 Reading Room</i>
3:45	Afternoon Break	<i>Level 1 Auditorium</i>
4:00	Chasing Ice – documentary film	<i>ISB Auditorium</i>
5:15	Afternoon Break	<i>Level 1 Auditorium</i>
5:30	POSTERS II (even numbered posters)	<i>Level 1 Auditorium</i>
7:00	End of session	<i>Level 1 Auditorium</i>
7:00	Workshop Banquet	<i>Level 1 Auditorium</i>
	Keynote: John H. England	<i>Level 1 Auditorium</i>

WEDNESDAY 13 MARCH

8:45	Paleoclimatology I	<i>Level 2 Reading Room</i>
10:35	Morning Break	<i>Level 1 Auditorium</i>
10:50	Paleoclimatology II	<i>Level 2 Reading Room</i>
12:40	End of Meeting. Thanks for coming!	<i>Level 2 Reading Room</i>

Program Details

SUNDAY 10 MARCH 2013

- 9:00 **Pre-workshop Field Trip** (*meet in Lobby of UMass Hotel*)
to **"Deglacial History and Environments of the Pioneer Valley"**.
4:00 Led by Julie Brigham-Grette et al. Limited space, you must sign up (online registration).
\$25 (includes transportation, guidebook, coffee and box lunch)

PM - SUNDAY 10 MARCH 2013

- 7:00 **Evening Reception, Check in, & Registration** (*Level 11, Campus Center*)
to Snacks and drinks will be served; cash bar for wine or beer;
9:30 load presentations onto computer; put up posters in Level 1 Auditorium.

AM – MONDAY 11 MARCH 2013

- 8:00 **Check-in & Registration** (*Level 2 Reading Room, Campus Center*)
(Load presentations onto our computer, put up posters in Level 1 Auditorium)
8:45 **Workshop Welcome & Introduction** (*Level 2 Reading Room, Campus Center*)

Paleoceanography I – Level 2 Reading Room

9:00 **WAS SEDIMENT EXPORTED FROM BAFFIN BAY ACROSS DAVIS STRAIT TO THE LABRADOR SEA DURING THE LAST GLACIAL CYCLE?**

Andrews, John T; Gibb, Olivia T; Jennings, Anne E; Simon, Quentin [pg 4]

9:30 **OCEANOGRAPHIC REGIMES IN THE WESTERN LABRADOR SEA SINCE MARINE ISOTOPE STAGE 3 BASED ON DINOCYST AND STABLE ISOTOPE PROXY RECORDS**

Gibb, Olivia T; de Vernal, Anne; Hillaire-Marcel, Claude [pg 59]

9:50 **THE ROLE OF OCEAN WARMING IN ICE SHEET-OCEAN INTERACTIONS IN EASTERN BAFFIN BAY FROM LGM THROUGH DEGLACIATION**

Jennings, Anne E; Andrews, John T; O'Coifagh, Colm; Sheldon, Christina M; Dowdeswell, Julian; St-Onge, Guillaume [pg 63]

10:10 ☕ Morning Break (*Level 1 Auditorium*)

AM – MONDAY 11 MARCH 2013

Paleoceanography II – Level 2 Reading Room

10:40 **RECONCILIATION OF PHYSICAL OCEANOGRAPHIC THEORY AND PALEOCEANOGRAPHIC DATA: THE ROLE OF THE BERING STRAIT, SOUTHERN OCEAN WINDS AND THE ATLANTIC MERIDIONAL CIRCULATION**

Ortiz, Joseph D; Nof, Doron [pg 99]

11:00 **SEDIMENTARY RECORD IN THE CHUKCHI PLATEAU (WESTERN ARCTIC OCEAN) AND ITS PALEOCEANOGRAPHIC IMPLICATIONS**

Park, Kwang-Kyu; Khim, Boo-Keun; Ohkushi, Kenichi [pg 102]

11:20 **HOLOCENE SEDIMENT TRANSPORT FROM THE BERING SEA INTO THE CHUKCHI SHELF: MINERALOGICAL AND ISOTOPIC RECORDS**

Khim, B.K.; Keigwin, L.D.; Lee, M.J.; Cho, H.G.; Harada, N.; Uchida, M. [pg 69]

11:40 **DRIFT ICE SIGNAL AT EIRIK DRIFT (SOUTH GREENLAND) DURING THE LAST ~3000 YEARS**

Alonso-Garcia, Montserrat; Kleiven, Helga (Kikki) F.; Hollander, David; Shevenell, Amelia E. [pg 1]

12:00  **LUNCH**

See printout of food options in your registration packet

1:00 **DUCK HAWK BLUFFS, SW BANKS ISLAND: REVISITING THE LYNCHPIN TO A LONG-ESTABLISHED NEOGENE-QUATERNARY MODEL OF THE WESTERN CANADIAN ARCTIC**

Evans, David J A; England, John H; Coulthard, Roy D; Lakeman, Thomas R; La Farge, Catherine [pg 48]

1:30 **PRELIMINARY ¹⁰BE AND ²⁶AL TERRESTRIAL COSMOGENIC NUCLIDE EXPOSURE DATES ON FAR-TRAVELLED (>1000KM) ERRATIC BOULDERS FROM PRINCE PATRICK ISLAND, NWT**

Coulthard, Roy D; Doupé, Jonathan P; England, John H [pg 30]

1:50 **ICE-MARGIN DYNAMICS OF CIRCUM BAFFIN BAY GLACIERS DURING THE LAST GLACIAL CYCLE**

Simon, Quentin; Hillaire-Marcel, Claude; St-Onge, Guillaume; Andrews, John T [pg 122]

2:10 **A ¹⁰BE CHRONOLOGY OF LATE PLEISTOCENE AND HOLOCENE GLACIATION IN THE ALAPAH MOUNTAIN REGION, NORTH-CENTRAL BROOKS RANGE**

Pendleton, Simon L; Briner, Jason P [pg 111]

2:30 **RECONSTRUCTING HOLOCENE ICE MARGIN FLUCTUATION IN DISKO BUGT, WEST GREENLAND**

Kelley, Samuel E.; Briner, Jason P.; Cronauer, Sandra L. [pg 66]

2:50 **REGROWTH OF LITTLE ICE AGE BRYOPHYTES EXHUMED FROM A POLAR GLACIER: THE RELEVANCE OF TOTIPOTENCY TO BIOLOGICAL REFUGIA**

La Farge, Catherine; Williams, Krista H; England, John H [pg 72]

3:10 **HOLOCENE ICE CAP DYNAMICS RECONSTRUCTED FROM RADIOCARBON-DATED MOSS AND MAMMAL BONES CURRENTLY EMERGING ALONG RECEDING ICE MARGINS ON CUMBERLAND PENINSULA, BAFFIN ISLAND**

Margreth, Annina; Kosar, Kevin; Dyke, Arthur S; Gosse, John C; Tekla, Alice [pg 83]

3:30 **COMPLEX AND HIGHLY VARIABLE CARBON ACCUMULATION AT IMNAVAIT CREEK PEATLAND**

Nichols, Jonathan E.; Peteet, Dorothy M.; Pavia, Frank J.; Karavias, John; Ouni, Souha [pg 90]

3:50 ☕ Afternoon Break (*Level 1 Auditorium*)

- 1 STRUCTURE OF RELICT ARCTIC PLANT COMMUNITIES ALONG THE NORTH SHORE OF LAKE SUPERIOR**
Edgerton, Angelique D; Pastor, John [pg 46]
-
- 3 CONTROLS ON SLOPE-TO-CHANNEL FINE SEDIMENT CONNECTIVITY IN A LARGELY ICE-FREE VALLEY, HOOPHORN STREAM, SOUTHERN ALPS, NEW ZEALAND.**
Beel, Casey R; Orwin, John F; Holland, Peter G [pg 13]
-
- 5 TEMPORAL ANALYSIS OF SUSPENDED SEDIMENT CONCENTRATION CHANGES IN A PROGLACIAL MELTWATER STREAM, LINNÉBREEN, SVALBARD.**
Nussbaum, Kayla E [pg 91]
-
- 7 CAN GREENHOUSE GAS EMISSIONS FROM ARCTIC THAW POND BE DRIVEN BY THEIR GEOMORPHOLOGY?**
Negandhi, Karita; Laurion, Isabelle [pg 89]
-
- 9 REVISION OF THE QUATERNARY STRATIGRAPHY AT MORGAN BLUFFS, BANKS ISLAND, WESTERN CANADIAN ARCTIC ARCHIPELAGO**
Lakeman, Thomas R.; England, John H. [pg 74]
-
- 11 USING GIS AND STREAMLINED LANDFORMS TO INTERPRET PALEO-ICE FLOW IN NORTHERN ICELAND**
Moyer, Alexis N; Principato, Sarah M [pg 87]
-
- 13 USING WESTERN GREENLAND ISOLATION BASINS TO CONSTRAIN MIDDLE HOLOCENE ICE SHEET AND RELATIVE SEA LEVEL CHANGES**
West, Brayton A; Kelley, Samuel E; Briner, Jason P [pgc138]
-
- 15 SHIFTING CLIMATE STATES OF THE POLAR REGIONS (SHIFTS)**
Bakke, Jostein [pg 7]
-
- 17 HIGH-LATITUDE NORTH ATLANTIC HOLOCENE CLIMATE RECONSTRUCTION FROM SVALBARD LAKE SYSTEMS: INSIGHTS ON THE ATLANTIC MULTIDECADAL OSCILLATION (AMO) IN THE ARCTIC NORTH ATLANTIC**
D'Anjou, Robert M.; Bradley, Raymond S.; D'Andrea, William; Bakke, Jostein; Røthe, Torgeir; Gjerde, Marthe [pg 36]
-
- 19 HYDROCLIMATIC VARIABILITY INFERRED FROM SUBANNUAL SEDIMENT PULSES IN LAKE LINNÉVATNET, SVALBARD**
Obermeyer, Dion A; Kaufman, Darrell [pg 95]
-
- 21 LAMINATED SEDIMENTS FROM A PROGLACIAL LAKE IN BODALEN, NORDENSKIOLDLAND, SVALBARD: IMPLICATIONS FOR LATE LITTLE ICE AGE AND 20TH CENTURY GLACIER DYNAMICS AND GLACIAL-LACUSTRINE SEDIMENT PRODUCTION**
Retelle, Mike; Dowey, Colin; Dulin, Ian [pg 116]

PM – MONDAY 11 MARCH 2013

Poster Session I continued (odd-numbered posters) 4:00 – 6:00 pm

- 23 HIGH-RESOLUTION HOLOCENE GLACIER RECONSTRUCTIONS FROM HIGH NORTHERN LATITUDES: EVALUATING MODES OF CLIMATE VARIABILITY AND POSSIBLE INTER-HEMISPHERIC CLIMATE LINKAGES**

Wittmeier, Hella E.; Bakke, Jostein; Schaefer, Joerg M. [pg 144]

- 25 PAIRED RESPONSE OF TWO HIGH-ARCTIC LAKES TO 5000 YEARS OF CLIMATE AND ENVIRONMENTAL CHANGE**

Cook, Timothy L; Balascio, Nicholas L; Bradley, Raymond S. [pg 28]

- 27 1750 YEARS OF LARGE RAINFALL EVENTS INFERRED FROM SEDIMENTARY PARTICLE SIZE AT EAST LAKE, CAPE BOUNTY, MELVILLE ISLAND, CANADA**

Lapointe, François; Francus, Pierre; Lamoureux, Scott [pg 76]

- 29 A HOLOCENE MIDGE (CHIRONOMIDAE) RECORD FROM FLOWER VALLEY LAKE, SOUTHEAST GREENLAND**

Francis, Donna R.; Balascio, Nicholas L.; D'Andrea, William J.; Bradley, Raymond S.; Perren, Bianca B. [pg 55]

- 31 NOVEL TRI-UNSATURATED ALKENONES IN ARCTIC LAKES: IMPLICATIONS FOR PALEOTEMPERATURE RECONSTRUCTION**

Longo, William M; Dillon, James; Theroux, Susanna; Giblin, Anne E; Huang, Yongsong [pg 80]

- 33 BERING/CHUKCHI SEA LATE QUATERNARY PROVENANCE AND FLOW REGIME RECONSTRUCTION THROUGH SEDIMENTOLOGIC EVIDENCE**

Pelto, Ben M; Brigham-Grette, Julie; Kocis, James J; Petsch, Steven [pg 108]

- 35 ARCTIC SEA-ICE GEOCHEMICAL AND ISOTOPIC TRACERS AND ITS ENHANCED EXPORT DURING THE YOUNGER DRYAS**

Maccali, Jenny; Hillaire-Marcel, Claude; Not, Christelle; Poirier, André [pg 82]

- 37 URANIUM-SERIES IN DEEP BAFFIN BAY SEDIMENTS AS TRACERS OF DETRITAL SOURCES AND SEDIMENTARY PROCESSES**

Nuttin, Laurence; Hillaire-Marcel, Claude [pg 94]

- 39 ENVIRONMENTAL AND PALEOMAGNETIC SECULAR VARIATION CHANGES DURING THE HOLOCENE IN BAFFIN BAY: A HIGH-RESOLUTION STUDY BASED ON THE PHYSICAL AND MAGNETIC PROPERTIES OF FOUR PISTON CORES**

St-Onge, Marie-Pier; St-Onge, Guillaume [pg 127]



- 41 OCEAN CHANGES AND THEIR RELATIONSHIP WITH GLACIER DYNAMICS IN DISKO BUGT AREA, WEST-GREENLAND, DURING THE HOLOCENE**

Ouellet-Bernier, Marie-Michèle; de Vernal, Anne; Hillaire-Marcel, Claude [pg 101]

- 43 QUATERNARY ARCTIC OCEAN: SEA ICE AND OCEAN CIRCULATION VARIABILITY OVER ORBITAL TIMESCALES**


Gemery, Laura; Cronin, Thomas M; Caverly, Emma; Deninno, Lauren; Polyak, Leonid [pg 58]

PM – MONDAY 11 MARCH 2013


- 6:30  **Non-student Dinner** at Julie Brigham Grette's house
- 7:00  **Student-only Pizza Party** at the University Club. The party will be a meetup co-sponsored by the Association of Polar Early Career Scientists (APECS). Representatives from the NE USA APECS Chapter will highlight opportunities such as mentorship, collaboration, and career guidance.

AM – TUESDAY 12 MARCH 2013

Paleolimnology – Level 2 Reading Room

- 9:00 **DECIPHERING CLIMATE SIGNALS FROM THE INHERENT COMPLEXITIES OF LAKE SEDIMENTS: IT IS AS CLEAR AS MUD!**
Smol, John P. [pg 125]
- 9:30 **ABRUPT CLIMATE TRANSITIONS RECORDED IN SYNCHRONIZED HOLOCENE GLACIAL AND NON-GLACIAL LACUSTRINE RECORDS IN ICELAND**
Geirsdottir, Aslaug; **Miller, Gifford**; Larsen, Darren; Olafsdottir, Saedis [pg 57]
- 9:50 **HOLOCENE CLIMATE VARIABILITY RECONSTRUCTED FROM A LAKE SEDIMENT RECORD IN SE GREENLAND**
de Wet, Greg; Bradley, Raymond; Balascio, Nicholas; Davin, Sam; Castañeda, Isla [pg 38]
- 10:10 **DEFINING THE TRANSITION TO THE LATE HOLOCENE NEOGLACIAL PERIOD USING LAKE SEDIMENT RECORDS FROM SOUTHEAST GREENLAND**
Balascio, Nicholas L; D'Andrea, William J.; Bradley, Raymond S. [pg 10]
- 10:30  Morning Break (*Level 1 Auditorium*)

Modelling – Level 2 Reading Room

- 10:50 **A HIGH RESOLUTION ICEBERG MODEL TO UNDERSTAND HOW MELTWATER TRIGGERS ABRUPT CLIMATE CHANGE**
Condron, Alan; Bradley, Raymond S [pg 27]
- 11:10 **LINKS BETWEEN PERMAFROST, WATER AND CARBON CYCLING ACROSS THE TERRESTRIAL ARCTIC UNDER A WARMING CLIMATE**
Rawlins, Michael [pg 115]
- 11:30 **HOLOCENE EVOLUTION OF THE WESTERN GREENLAND ICE SHEET: ASSESSING GEOPHYSICAL ICE-SHEET MODELS WITH GEOLOGICAL RECONSTRUCTIONS OF ICE-MARGIN CHANGE**
Young, Nicolás; Briner, Jason [pg 147]
- 11:50 **MODELING THE EFFECTS OF HOLOCENE PRIMARY PRODUCTIVITY CHANGES ON ORGANIC CARBON ACCUMULATION AND STORAGE IN THE BARENTS SEA**
Pathirana, Irene; Felix, Maarten; Knies, Jochen; Mann, Ute [pg 103]
- 12:10  **LUNCH**

PM – TUESDAY 12 MARCH 2013

Special Talk – *Level 2 Reading Room*

1:20 **THE UNION OF CONCERNED SCIENTISTS**

Knobloch, Kevin (President, Union of Concerned Scientists)

Glaciology – *Level 2 Reading Room*

1:50 **ESTIMATES OF TIDEWATER GLACIER MELTING FROM WARMING FJORD WATERS IN SVALBARD**

Powell, Ross; Rajagopalan, Daksha; Brigham-Grette, Julie; Siegel, Rebecca [pg 113]

2:15 **SERMILIK FJORD OUTLET GLACIERS, SOUTHEAST GREENLAND: COHERENT BEHAVIOR OR A DRUNKARDS WALK?**

Miles, Victoria; **Miles**, Martin W.; Johannessen, Ola M. [pg 85]

2:35 **EXAMINING THE PAST DYNAMICS OF THE NORTHEAST GREENLAND ICE SHEET THROUGH RADAR INTERNAL STRATIGRAPHY**

Keisling, Benjamin; Christianson, Knut; Jacobel, Robert; Anandakrishnan, Sridhar; Peters, Leo; Alley, Richard [pg 65]

2:55 **UTILITY OF SATELLITE DERIVED TRANSIENT SNOWLINE MIGRATION RATES IN MASS BALANCE ASSESSMENT ON ARCTIC GLACIERS**

Pelto, Mauri; Mernild, Sebastian; Malmros, Jeppe [pg 104]

3:15 **CONNECTING THE ATLANTIC-SECTOR AND THE NORTH PACIFIC (MT LOGAN) ICE CORE STABLE ISOTOPE RECORDS DURING THE HOLOCENE: THE ROLE OF EL NIÑO AND THE GREAT 4.2 KA BP EVENT**

Fisher, David A [pg 54]

3:45 End of Session

Chasing Ice - Award-winning documentary film (*ISB Auditorium*)

4:00
to
5:15



"*Chasing Ice* is the story of one man's mission to change the tide of history by gathering undeniable evidence of climate change. Using time-lapse cameras, his videos compress years into seconds and capture ancient mountains of ice in motion as they disappear at a breathtaking rate."

<http://www.chasingice.com/>

Film sponsored by UMass Department of Geosciences.

2 BIOAVAILABILITY OF METHYLMERCURY TO ARCTIC CHAR ON CORNWALLIS ISLAND, NUNAVUT

Hudelson, Karista E; Barst, Benjamin D; Drevnick, Paul E [pg 62]

4 A GEOMORPHIC AND SEDIMENTOLOGICAL STUDY OF THE PERIGLACIAL PROCESSES AND ENVIRONMENTS, VARDEBORGSLETTA, WESTERN SPITSBERGEN, SVALBARD

Farnsworth, Lauren B; Retelle, Michael J; Christiansen, Hanne; Cohen, Sara M [pg 51]

6 ICE-MARGINAL AND PROGLACIAL FLUVIAL CHARACTERISTICS OF A HIGH-ARCTIC GLACIER, LINNÉBREEN, SVALBARD

Whiting, John; Carson, Robert; Bader, Nicholas; Roof, Steven; Retelle, Michael [pg 142]

8 THE GLACIOTECTONIC HISTORY OF THE WORTH POINT STRATIGRAPHIC SEQUENCE, BANKS ISLAND, NT, CANADA.

Vaughan, Jess M; England, John [pg 132]

10 USING GIS TO RECONSTRUCT PALEO EQUILIBRIUM-LINE ALTITUDES FROM CIRQUES IN NORTHWEST ICELAND

Lee, Jessica F; Principato, Sarah M [pg 78]

12 RECONSTRUCTING HOLOCENE ICE SHEET MARGINS IN CENTRAL WESTERN GREENLAND: WHAT IS THE AGE OF THE DRYGALSKI MORAINES?

Cronauer, Sandra L; Briner, Jason P; Kelley, Samuel E [pg 32]

14 HOLOCENE FLUCTUATIONS OF LINNÉ GLACIER: CONSTRAINING ITS PRE-LITTLE ICE AGE HISTORY USING COSMOGENIC RADIONUCLIDE EXPOSURE DATING

Reusche, Melissa M; Windsor, Kelsey; Carlson, Anders; Rood, Dylan H; Novak, Anthony; Marcott, Shaun; Roof, Steven; Retelle, Michael [pg 118]

16 INTEGRATING CONTEMPORARY ARCTIC RESEARCH INTO SECONDARY EDUCATION CURRICULUM: EXPERIENCE, OUTREACH, AND CURRICULUM BUILDING THROUGH A FIELD SEASON IN SVALBARD

Frost, Daniel S [pg 56]

18 LATE HOLOCENE PALEOCLIMATE RECONSTRUCTION FROM VARVED SEDIMENT RECORD, LINNÉVATNET, SVALBARD, NORWAY

Dowey, Colin W; Retelle, Michael J [pg 41]

20 USING CLAY MINERALOGY TO ANALYZE SEDIMENT CONTRIBUTIONS TO LINNÉVATNET, SPITSBERGEN, SVALBARD

Tiedmann, Helena R [pg 129]

22 HOLOCENE GLACIER FLUCTUATIONS RECONSTRUCTED FROM THE DISTAL GLACIER-FED LAKE KLØSA AT MITRAHALVØYA, SPITSBERGEN

Røthe, Torgeir; Bakke, Jostein; Hormes, Anne; Gjerde, Marthe; D'Anjou, Robert; D'Andrea, William; Bradley, Raymond [pg 121]

- 24 **RECONSTRUCTING CLIMATE AND ENVIRONMENTAL CHANGE OVER THE LAST 9000 YEARS BASED ON A PEAT BOG RECORD FROM NORTHERN NORWAY**
Kelly, Michael P; Balascio, Nicholas; Anderson, Scott; Bakke, Jostein [pg 68]
-
- 26 **MORPHOSTRATIGRAPHIC STUDY OF THE PINGUALUIT CRATER LAKE, NUNAVIK: INITIAL LIDAR RESULTS**
Desiage, Pierre-Arnaud; St-Onge, Guillaume; Lajeunesse, Patrick [pg 39]
-
- 28 **A 7000 YEAR RECORD OF CLIMATE CHANGE FROM AMMASSALIK, SE GREENLAND**
Davin, Samuel H; Bradley, Raymond S; Balascio, Nicholas [pg 37]
-
- 30 **A 10,800 YEAR XRF DERIVED LAKE LEVEL RECORD SPANNING THE LATEGLACIAL TO MIDDLE-HOLOCENE FROM OTTER LAKE, SOUTH CENTRAL ALASKA**
Bochicchio, Chris J; Yu, Zicheng [pg 17]
-
- 32 **DISTRIBUTION OF BRANCHED AND ISOPRENOIDAL GDGTS IN RELATION TO MODERN SSTs AND ENVIRONMENTAL VARIABLES IN THE BERINGIAN GATEWAY**
Kocis, James J; Castañeda, Isla S; Petsch, Steven T; Finkelstein, David B; Brigham-Grette, Julie [pg 70]
-
- 34 **PALEOMAGNETIC STUDY OF HOLOCENE SEDIMENTS FROM THE MACKENZIE RIVER TROUGH IN THE BEAUFORT SEA**
Barris, Elissa C; St-Onge, Guillaume; Rochon, André [pg 11]
-
- 36 **PALEOMAGNETISM AND ENVIRONMENTAL CHANGES FROM SOUTHWESTERN HUDSON BAY HOLOCENE SEDIMENTS: PRELIMINARY RESULTS**
Duboc, Quentin; St-Onge, Guillaume; Lajeunesse, Patrick [pg 44]
-
- 38 **LEAD CONCENTRATIONS AND ISOTOPIC COMPOSITIONS OF EASTERN AND NORTHERN BAFFIN BAY SURFACE SEDIMENTS.**
Pujol, Nicolas; Poirier, André; Hillaire-Marcel, Claude [pg 114]
-
- 40 **HOLOCENE SEDIMENTARY ENVIRONMENTS IN SMEERENBURGFJORDEN, SPITSBERGEN**
Velle, Julie H.; Forwick, Matthias; Hass, H. Christian; Laberg, Jan Sverre; Vorren, Tore O.; Vogt, Christoph; Nielsen, Tove; Solheim, Anders [pg 133]
-
- 42 **A GCM COMPARISON OF MARINE ISOTOPE STAGES 1, 5E, 11C AND 31 IN RELATION TO LAKE EL'GYGYTGYN NE RUSSIA**
Coletti, Anthony J; DeConto, Robert M; Melles, Martin; Brigham-Grette, Julie; Minyuk, Pavel S [pg 26]
-
- 44 **THE EFFECT OF ORBITAL FORCING ON POLAR CLIMATE**
Roychowdhury, Rajarshi; Robert, DeConto M [pg 120]

PM – TUESDAY 12 MARCH 2013

Workshop Banquet and Keynote (Level 1 Auditorium)

7:00  **WORKSHOP BANQUET & KEYNOTE**



John H. England

Professor Emeritus

Dept. of Earth and Atmospheric Sciences

University of Alberta, Canada

“My Arctic Camino of Forty-eight Years and Counting: stories of remarkable friends, calamities and adventures that ultimately eclipse the splendour of science”

AM – WEDNESDAY 13 MARCH 2013

Paleoclimatology I – Level 2 Reading Room

8:45 **MILLENNIAL SCALE CHANGE FROM LAKE EL'GYGYTGYN, NE RUSSIA: DID WE STEP OR LEAP OUT OF THE WARM PLIOCENE INTO THE PLEISTOCENE?**

Brigham-Grette, Julie; Melles, Martin; Minyuk, Pavel; , El'gygytgyn Science Team
[pg 19]

9:15 **COLOR REFLECTANCE SPECTROSCOPY AND MINERALOGICAL ANALYSIS FROM LAKE EL'GYGYTGYN, NE SIBERIA, DURING MARINE ISOTOPE STAGES 8 - 12**

Wei, Jeremy H.; Brigham-Grette, Julie; Castañeda, Isla S.; Finkelstein, David B.; Nowaczyk, Norbert [pg 137]

9:35 **DID NORTHERN HEMISPHERE GLACIATION BEGIN WITH THE NORTH PACIFIC OCEAN?**

Venti, Nicholas L; Billups, Katharina; Herbert, Timothy D [pg 134]

9:55 **REVERSING THE IMPACT OF THE HAUGHTON CRATER, DEVON ISLAND, CANADA**

Gosse, John; Rybczynski, Natalia; Stubner, Konstanze [pg 61]

10:15 **EXAMINING GLACIAL-INTERGLACIAL CONTINENTAL TEMPERATURE VARIABILITY IN THE BERINGIAN ARCTIC DURING MARINE ISOTOPE STAGES (MIS) 1-7, MIS 9-11 AND MIS 31: INSIGHTS FROM AN ORGANIC GEOCHEMICAL INVESTIGATION OF LAKE EL'GYGYTGYN**

Castañeda, Isla S.; Finkelstein, David B; Wei, Jeremy; D'Anjou, Robert M; Phu, Victoria; Urann, Ben; Wilkie, Kenna; Brigham-Grette, Julie [pg 23]

10:35  Morning Break (Level 1 Auditorium)

10:50 SEDIMENT CORE AND GLACIAL ENVIRONMENT RECONSTRUCTION – A METHOD REVIEW

Bakke, Jostein [pg 9]

11:20 NORTH-ATLANTIC HOLOCENE CLIMATE VARIABILITY REFLECTED IN THE DYNAMICAL RESPONSE OF NORWEGIAN MARITIME GLACIERS

Vasskog, Kristian; **Bakke**, Jostein; **Førre**, Erlend; **Tolo**, Annbjørg; **Nielsen**, Pål R; **Birks**, H.J.B; **Kvisvik**, Bjørn C; , et al. [pg 131]

11:40 AMINO ACID RATIOS IN REWORKED MARINE BIVALVE SHELLS CONSTRAIN GREENLAND ICE SHEET HISTORY DURING THE HOLOCENE

Briner, Jason P; **Kaufman**, Darrell S; **Bennike**, Ole [pg 20]

12:00 CLIMATE IMPACTS ON HUMAN SETTLEMENT AND AGRICULTURAL ACTIVITIES IN NORTHERN NORWAY REVEALED THROUGH SEDIMENT BIOGEOCHEMISTRY

D'Anjou, Robert M.; **Bradley**, Raymond S.; **Balascio**, Nicholas; **Finkelstein**, David B; **Castañeda** , Isla S. [pg 34]

12:20 MODELING HABITAT USE BY BOWHEAD WHALES IN RESPONSE TO PAST AND FUTURE ARCTIC CLIMATE CHANGE

Pendleton, Dan; **Zhang**, Jinlun; **Ferguson**, Megan; **Holmes**, Elizabeth [pg 110]

12:40 END OF MEETING – THANKS FOR ATTENDING!

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