

# Arctic Workshop 2016 Program Summary

FRIDAY 01 APRIL		
4:30 – 7:30	<b>Evening Reception, Check-In, Registration</b> Load presentations onto our computer Put up posters	<i>MacAllister/SEEC Room s228</i>
SATURDAY 02 APRIL		
8:30 – 8:55	<b>Check-in &amp; Registration</b> Load presentations onto our computer Put up posters	<i>MacAllister/SEEC lobby</i>
8:55	<b>Welcome &amp; Introduction</b>	<i>Auditorium</i>
9:10	<b>1. Glacial History</b>	“
10:50	20 min morning break	“
11:10	<b>2. Paleoceanography &amp; Glacial History</b>	“
12:50 pm	Lunch buffet provided (tacos)	<i>Cafeteria</i>
2:00	<b>POSTER SESSION (2 hours)</b>	<i>Adjacent to Auditorium</i>
4:00	<b>Film: Tony, Back from the Brink</b>	<i>Auditorium</i>
5:00	Pizza and drinks (all attendees)	<i>Cafeteria</i>
7:00	End of Day	
SUNDAY 03 APRIL		
8:50	<b>Announcements</b>	<i>Auditorium</i>
9:00	<b>3. A Warming Arctic</b>	“
10:40	20 min morning break	“
11:00	<b>4. Holocene paleoclimate</b>	“
12:40 pm	Closing comments	“
1:00	Lunch buffet provided (sandwiches)	<i>Cafeteria</i>
2:00	End of Meeting	

# Program Details

## PM - FRIDAY 01 APRIL 2016

- 4:30 **Evening Reception, Check in, & Registration** (*MacAllister/SEEC s228*)  
to Snacks and drinks will be served, including wine;  
7:30 Load presentations onto our computer, put up posters.

## AM – SATURDAY 02 APRIL 2016

- 8:30 **Check-in & Registration** (*MacAllister/SEEC Lobby*)  
Load presentations onto our computer, put up posters
- 8:55 **Announcements** (*MacAllister/SEEC Auditorium*)
- 9:00 **Workshop Welcome & Introduction** (*MacAllister/SEEC Auditorium*)  
James White, Director of INSTAAR

### 1. GLACIAL HISTORY

*Chair: Martin Miles*

- 9:10 **THE DEEP ACCUMULATION OF 10BE IN DISTAL ICE SHEET LANDSCAPES: A CASE STUDY AT UTSIRA, SOUTHWESTERN NORWAY**  
**Briner, Jason P.; Goehring, Brent; Svendsen, John Inge; Mangerud, Jan** [pg 13]
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- 9:30 **LAKE DENSITY AS A MEASURE OF GLACIAL EROSIONAL IMPACT ON LOWLAND BEDROCK TERRAIN (OR NOT)**  
**Ebert, Karin; Hamré, Moa; Principato, Sarah** [pg 22]
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- 9:50 **DIACHRONOUS RETREAT OF THE GREENLAND ICE SHEET: INSIGHTS FROM A NEW 10BE COSMOGENIC EXPOSURE DATABASE**  
**Sinclair, Gaylen; Carlson, Anders E.; Mix, Alan C.; Lecavalier, Benoit S.; Milne, Glenn; Mathias, Aspen; Buizert, Christo; Deconto, Robert** [pg 64]
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- 10:10 **IN SITU 10BE MEASUREMENTS IN BEDROCK CONSTRAIN EROSION BENEATH THE GREENLAND ICE SHEET**  
**Young, Nicolas; Briner, Jason; Schaefer, Joerg** [pg 71]
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- 10:30 **CURRENT STATE OF RENLAND (EAST GREENLAND) ICE CORE ANALYSIS**  
**Thayer, Abigail G; White, James W** [pg 66]
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- 10:50 ☕ 20-Minute Morning Break

**AM – SATURDAY 02 APRIL 2016**

**2. PALEOCEANOGRAPHY AND GLACIAL HISTORY**

*Chair:* Gifford Miller

11:10 **MULTI-PROXY EVIDENCE FOR ENHANCED DISCHARGE OF ARCTIC SEA ICE AT THE ABRUPT ONSET OF THE LITTLE ICE AGE**

**Miles**, Martin W.; Dylmer, Christian V [pg 46]

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11:30 **DENMARK STRAIT---THE CONTACT AREA BETWEEN THE GREENLAND AND ICELAND ICE SHEETS DURING MIS3 AND MIS2---SEDIMENT SOURCES AND ABRUPT EVENTS**

**Andrews**, John T; Dunhill, Gita; Vogt, Christoph; Voelker, Antje [pg 9]

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11:50 **WAS THERE A BAFFIN BAY ICE SHELF IN THE INTERVAL OF LGM AND HS1?**

**Jennings**, Anne E.; Andrews, John T.; Ó Cofaigh, Colm; St-Onge, Guillaume; Belt, Simon; Cabedo Sanz, Patricia [pg 33]

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12:10 **IT TAKES TWO: USING 10BE AND RADIOCARBON DATING TO DECIPHER THE GLACIAL HISTORY OF SOUTHEASTERN ALASKA DURING THE LAST GLACIAL MAXIMUM**

**Lesnek**, Alia J; Briner, Jason P [pg 38]

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12:30 **USING SHELL-BASED PROXY RECORDS FROM NORTHERN NORWAY TO EVALUATE HIGH LATITUDE IMPACTS OF THE ATLANTIC MULTIDECADAL OSCILLATION**

**Mette**, Madelyn; Wanamaker Jr., Alan D.; Carroll, Michael L.; Ambrose Jr., William G.; Retelle, Michael J. [pg 45]

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12:50  **LUNCH BUFFET PROVIDED** (Cafeteria, Tacos)

**PM – SATURDAY 02 APRIL 2016**

**POSTER SESSION 2:00 – 4:00 pm**

**HELIUM ISOTOPE BASED RECORD OF CONTINENTAL ACCUMULATION RATES AND PROVENANCE PROVIDES EVIDENCE OF REORGANIZATION OF NORTH ATLANTIC CIRCULATION PATTERNS OVER THE LAST 6 MA**

**Bhattacharya**, Atreyee; Mukhopadhyay, Sujoy; Higgins, Sean; Ackert, Robert [pg 12]

**A HIGH-RESOLUTION LABRADOR SEA SURFACE AND SUBSURFACE WATER FORAMINIFERAL DELTA-O-18 RECORD AND ITS RELATION TO HEINRICH EVENTS**

**Brown**, Zoe E; Hoffman, Jeremy S; Clark, Peter U [pg 14]

**INCREASES IN GROWING SEASON LENGTH AND CHANGES IN PRECIPITATION IN SIX DIFFERENT ARCTIC AND SUBARCTIC ECOSYSTEMS**

Culler, Lauren; **Finger**, Rebecca; Plane, Ellen; Ayres, Matthew; Virginia, Ross [pg 18]

**A MULTI-PROXY RECORD OF EARLY PLEISTOCENE SEA-ICE AND CIRCULATION CONDITIONS IN THE WESTERN ARCTIC OCEAN**

**Dipre**, Geoffrey; Polyak, Leonid; Ortiz, Joseph; Cook, Ann; Oti, Emma [pg 19]

**WIND VENTILATION OF HOMOGENOUS SEASONAL SNOW LAYERS**

**Drake**, Stephen A; Higgins, Chad W [pg 20]

**HOLOCENE FORAMINIFERA AND OSTRACODA FROM THE HERALD CANYON, CHUKCHI SEA, SWERUS-C3 EXPEDITION 2014**

**Gemery**, Laura; Cronin, Thomas M.; Jakobsson, Martin; Barrientos, Natalia; O'Regan, Matt; Muschitiello, Francesco; Pearce, Christof; Koshurnikov, Andrey [pg 25]

**SOIL RESPONSE TO AEOLIAN DISTURBANCE IN WEST GREENLAND**

**Heindel**, Ruth C; Culler, Lauren E; Chipman, Jonathan W; Virginia, Ross A [pg 31]

**UNPRECEDENTED RETREAT OF THE COLUMBIA GLACIER IN THE LAST MILLENNIUM**

**Kilmer**, Zoe S; Carlson, Anders E; Stoner, Joseph S; Walczak, Maureen H; Leydet, David J [pg 34]

**THE INFLUENCE OF SPRING AND EARLY SUMMER CLOUD RADIATIVE FORCING ON INTER-ANNUAL ARCTIC SEA ICE VARIABILITY**

**King**, Michalea D; Veron, Dana [pg 35]

**OXYGEN ISOTOPES OF PRESERVED AQUATIC ORGANIC MATERIAL RECORD PAST LAKE WATER AND CLIMATE CHANGE IN NW GREENLAND**

**Lasher**, G Everett; Axford, Yarrow; McFarlin, Jamie M; Meredith, Kelly A; Osterberg, Erich C; Farnsworth, Lauren [pg 36]

**PM – SATURDAY 02 APRIL 2016**

**POSTER SESSION 2:00 – 4:00 pm**

**EFFECTS OF SEA ICE ON THE HABITAT PREFERENCE OF ANTARCTIC MINKE WHALES (BALAENOPTERA BONAERENSIS) ALONG THE WEST ANTARCTIC PENINSULA**

Lee, Jessica F; DeLiberty, Tracy L; Oliver, Matthew J; Friedlaender, Ari S [pg 37]

**MID-HOLOCENE MARINE PALEOCLIMATE FROM ROLVSOYA AND INGOYA: NORTHERN FINNMARK, NORWAY**

Mark, Samuel; Mette, Madelyn; Retelle, Michael; Savage, Julia; Wanamaker, Alan [pg 40]

**HIGH RESOLUTION XRF SEDIMENT MINERALOGICAL ANALYSIS OF LATE SEASON PRECIPITATION EVENTS IN A HIGH ARCTIC GLACIATED WATERSHED**

McCabe, Christiane; Retelle, Mike; Werner, Al [pg 42]

**SATELLITE RECORD OF NORMALIZED DIFFERENCE VEGETATION INDEX (NDVI) REVEALS CONTRASTING TRENDS IN NORTHERN WEST SIBERIA**

Miles, Victoria; Esau, Igor [pg 47]

**RETREAT OF THE SMITH SOUND ICE STREAM IN THE EARLY HOLOCENE**

Oliver, Brett; Jennings, Anne E; Andrews, John T [pg 53]

**HOLOCENE SHORELINES AND RELATIVE SEA LEVEL HISTORY ON INGØYA NORTHERN FINNMARK, NORWAY**

Retelle, Mike; Mark, Samuel; Savage, Julia [pg 58]

**A LATE-HOLOCENE PALEOCLIMATE RECONSTRUCTION USING THE BIVALVE ARCTICA ISLANDICA FROM NORTHERN NORWAY**

Savage, Julia M.; Retelle, Michael J.; Wanamaker Jr., Alan D.; Mette, Madelyn J.; Mark, Samuel Z. [pg 59]

**RESPONSE OF LOCAL SEA ICE EXTENT TO PASSAGE OF THREE EXTREME CYCLONES IN THE ARCTIC**

Schreiber, Erika A.P.; Serreze, Mark C. [pg 62]

**SHARING INDIGENOUS WAYS OF KNOWING IN PARTNERSHIP WITH ARCTIC COMMUNITIES**

Sheffield, Betsy; McCann, Heidi; Pulsifer, Peter L.; Strawhacker, Colleen A.; McNeave, Chris [pg 63]

**HOLOCENE DEGLACIATION IN TWO FIORDS ON NORTHERN CUMBERLAND PENINSULA, BAFFIN ISLAND, ARCTIC CANADA**

Tulenko, Joseph P; Briner, Jason P; Miller, Gifford H; Young, Nicolas E [pg 70]

**PM – SATURDAY 02 APRIL 2016**

**FILM** 4:00 – 5:00 pm



***Tony, Back from the Brink***

A film produced by Joelle Sanguya and directed by Mike Jaypoody

A victim of childhood violence and neglect, Tony Kalluk spent half of his first forty years in jail or on probation. He was angry, violent; he attempted “suicide by police” but was only shot in the leg. Later something changed; he returned home to Clyde River, became a counselor to others in distress, and started a family. The film follows Tony as he tries to stay on track, while battling his demons from a past that will not leave him alone.

Runtime: 46 minutes.

**PIZZA & DRINKS** 5:00 – 7:00 Cafeteria

For all workshop participants

8:50 Announcements (*SEEC Auditorium*)

### 3. A WARMING ARCTIC

*Chair.* Jason Briner

9:00 **HOW UNUSUAL IS THE BARNES ICE CAP'S LIKELY DISAPPEARANCE IN THE NEAR FUTURE**

**Miller**, Gifford; Gilbert, Adrien; Flowers, Gwenn; Refsnider, Kurt; Pendleton, Simon [pg 49]

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9:20 **ENVISIONING A WARMER ARCTIC: EXPLORING THE USE OF ANCIENT DNA PRESERVED IN INTERGLACIAL LAKE SEDIMENTS ON BAFFIN ISLAND**

**Crump**, Sarah E; Miller, Gifford H; Bunce, Michael [pg 17]

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9:40 **ARCTIC CLIMATE PREDICTIONS: PATHWAYS TO RESILIENT, SUSTAINABLE SOCIETIES (ARCPATH)**

**Ogilvie**, Astrid E.J.; Einarsson, Niels; Gao, Yongqi; Keenlyside, Noel; Rasmussen, Marianne H. [pg 50]

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10:00 **400 PREDICTIONS: THE SEARCH SEA ICE OUTLOOK 2008–2015**

**Hamilton**, Lawrence C; Stroeve, Julienne [pg 28]

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10:20 **TRACKING ICE PARCELS AND CO-LOCATED DATA PRODUCTS IN THE ARCTIC USING THE SEA ICE MOTION AND AGE DATA PRODUCTS AT THE UNIVERSITY OF COLORADO AT BOULDER WITH APPLICATIONS TO STUDYING CHANGES IN THE ARCTIC ICE PACK**

**Tooth**, Matthew N; Tschudi, Mark [pg 69]

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10:40 ☕ 20-Minute Morning Break

#### 4. HOLOCENE PALEOCLIMATE

Chair: Anne Jennings

11:00 **LATEST HOLOCENE GLACIER ACTIVITY ON CUMBERLAND PENINSULA, BAFFIN ISLAND**

**Pendleton**, Simon; Miller, Gifford; Anderson, Robert; Crump, Sarah [pg 55]

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11:20 **DECADALLY-RESOLVED EARLY HOLOCENE TEMPERATURE AND PRECIPITATION RECONSTRUCTIONS FROM WESTERN GREENLAND**

**Thomas**, Elizabeth K.; Castañeda, Isla S.; Briner, Jason P.; Nguyen, Kevin; Salacup, Jeff; Schweinsberg, Avriel [pg 67]

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11:40 **A 12 KA RECORD OF AQUATIC PRODUCTIVITY AND LANDSCAPE STABILITY FROM TORFDALSVATN, NORTH ICELAND**

**Florian**, Christopher R; Miller, Gifford H; Geirsdóttir, Áslaug [pg 24]

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12:00 **STEPWISE NEOGLACIAL LANDSCAPE DESTABILIZATION IN THE CENTRAL HIGHLANDS, WEST ICELAND**

**Gunnarson**, Sydney R.; Geirsdóttir, Áslaug; Miller, Gifford H. [pg 26]

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12:20 **A 3 KA MULTI-PROXY GLACIAL AND ENVIRONMENTAL RECORD FROM DRANGAJÖKULL, VESTFIRÐIR, ICELAND: TERRESTRIAL AND MARINE COEVOLUTION.**

**Harning**, David; Geirsdóttir, Áslaug; Miller, Gifford; Belart, Joaquín M.C.; Anderson, Leif [pg 30]

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12:40 Closing Comments

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1:00  **LUNCH BUFFET PROVIDED** (Cafeteria, Sandwiches)

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2:00 **END OF MEETING – THANKS FOR ATTENDING!**