

# 32nd Annual Harold W. Borns, Jr. Symposium 300 Bryand Global Science Center, Harold W. Borns Jr. Polar Facility

# Conference Schedule <u>APRIL 16, 2025</u> 12:00 PM: COFFEE / TEA / WATER (No food) – ROOM 307

# NO FOOD OR DRINKS EXCEPT WATER IN ROOM 300

12:30-12:40 PM: Welcome Address: Introduction by Dr. Paul Andrew Mayewski, Climate Change Institute, Director and Professor.

## SESSION 1 – Session Moderator: Leonardo Villacís

- **12:40 PM: Thermal Windows in the Southern Flying Squirrel (***Glaucomys volans***)** *Eric A. Brown*
- 12:52 PM: A Glacial Chronology from Lysefjord, Southwestern Norway Evidence for a Cold Reversal During the Termination of the Last Ice Age *Tricia Hall Collins*
- 1:04 PM: Using Paleolimnological Approaches to Disentangle the Long-term Nutrient and Climate Drivers of Harmful Cyanobacterial Blooms Avery N. Lamb
- 1:16 PM: Evidence of a Late Glacial Readvance in North-Central Maine Maraina Miles
- 1:28 PM: Allan Hills, Antarctica Climatic Shift Indicated by Water Isotopes, Dust, and Iron Samantha Baumgartner
- 1:40 PM: Aligning Circularity and Climate Reduction Goals in Packaging EPR Schemes Erin Victor
- 1:52 PM: Possible Teleconnection Between the January 2022 Tonga Eruption and Climate Extremes Observed in 2023 Ana Trueba
- 2:04 PM: Liquid Water Distribution Within and Beneath Temperate Ice on the Juneau Icefield, Alaska Renée Clavette
- 2:16 PM: Transition of Marine-terminating Glaciers to Land under a Warming Climate: Implications for Driving Stress Mathilde Børch

2:30 – 3:00 PM: BREAK WITH REFRESHMENTS – ROOM 307

NO FOOD OR DRINKS EXCEPT WATER IN ROOM 300

## **SESSION 2 – DAVE CLAYTON SMITH LECTURE**

3:00 PM:

Bonnie Newsom, Ph.D., Associate Professor of Anthropology and Faculty Associate, Climate Change Institute, University of Maine.

A Million Sunrises at Schoodic: Archaeological Research on the Muted Histories at Frazer Point, Acadia National Park, Maine

3:45 PM Jacobson CCI Distinguished Service Award 2025 Jacobson committee: Madeleine Landrum, Elizabeth Rodgers, Alexzander Roman

### **SESSION 3 - Session Moderator: Thomas Grindle**

- 3:51 PM: Spatial Distribution of Trace Metal Chemistry in Saline Surface Water in West Greenland Cory Limberger
- 4:03 PM: Multi-scalar Approach Towards a Holistic Understanding of Lake Level in an Agricultural, Drought-Prone Sub-Arctic Landscape Amanda Gavin
- 4:15 PM: Spatial and Temporal Variability in Density and Liquid Water Content in Wet Firn on Juneau Icefield, Alaska Mikaila Mannello
- 4:27 PM: Impact of Temperature and Precipitation on Growth and Survival of Tree Seedlings: A Comparative Analysis of Conifer and Deciduous Species Pratima Pahadi
- 4:39 PM: Polluter Pays and Climate Superfund Law Anthony Moffa
- 4:51 PM: COP29 Week 1 Delegation Jamie Dalgleish, Holly Fain, Hailey Rizzo
- 5:03 PM: COP29 Week 2 Delegation Nicholas Micinski, Sarah Ball, Clea Harrelson

### -GROUP PICTURE-

### SESSION 4 - 5:15 PM: POSTER SESSION - HALLWAY / CASH BAR - ROOM 307

- Human Behavior in the Northeast Landscape of the Little Ice Age: A Faunal Analysis of Long Point Preserve, Machiasport, Maine Mackenzie Andersen
- Uncovering Long-Term Responses to Climate Change in the Gulf of Maine Morgan E. Anderson
- Meteorology Starts with Weather Observations Nikki Becker
- Investigating the Spatiotemporal Patterns of Asimina triloba since the Last Glacial Maximum Elijah Bradshaw
- Advancing Wind Modeling in Complex Terrain with a Particle-Based Physics Framework Jay Broccolo

Vulnerability to Climate Change and Effects of Circadian Rhythm and Rest-Site Selection in Small Tropical Mammals

Claudia N. Saldaña DeCamillis

- Development of Artificial Ice Standards for LA-ICP-MS Analysis Lela Gadrani
- Developing a <sup>10</sup>Be Chronology of a Late-Glacial Moraine Complex in Whale Stream, New Zealand *Mike Goodwin*
- Nutrient Shifts in Lakes Located in Central Norway: From Acidification to Browning Kayla Guthrie
- Characterizing Fish Sedimentary DNA Accumulation and Degradation Rates to Better Monitor Species on the Move Grayson P. Huston
- Calibrating Isotopic and Trace Element Analysis of *Trachycardium* Shell Material as a Proxy for ENSO Behavior in North Coastal Peru Katelyn Johnson
- Don't Leave Feeling Hollow: Methods for Successfully using Small Hollows to Reconstruct Anthropogenic Fire History Madeleine Landrum
- Investigating Microbial Community Composition in Freshwater Systems in West Greenland Miranda Herschel Seixas
- Glacier Retreat and Readvance near Mount Waesche, West Antarctica Sicely Sohn
- Investigating Snowpack Thickness Variations in Temperate Regions: Integrating High Accuracy LiDAR Snow Surveys Wyatt Stanley

# <u>April 17, 2025</u> 8:00 – 8:15 AM: COFFEE / TEA / WATER (No food) – ROOM 307

## NO FOOD OR DRINKS EXCEPT WATER IN ROOM 300

8:15 AM: Welcome: Dr. Paul Mayewski

<u>SESSION 5 - Session Moderator: Mikaila Mannello – Churchill Talks(1st 5 talks)</u> 8:20 AM: "Site-seeing" Archaeological Features on the North Coast of Peru Emily M. Blackwood

- 8:32 AM: How do Lakes in West Greenland Recover from Abrupt Lake Browning Following a Compound Climate Extreme Event? Thomas Grindle
- 8:44 AM: Geochronologic Record of Ice Extent During the Antarctic Cold Reversal at Bahía Penhoat, Chile Sera Thomas

- 8:56 AM: Using Geophysical Survey to Reveal Patterns in Monumental Construction at Los Morteros, Peru Kelly E. Hoover
- 9:08 AM: Cordillera Darwin Icefield Extent During the Last Termination Meghan Spoth
- 9:20 AM: Interhemispheric Comparison of the Late Glacial Climate Reversal Katherine Westbrook
- 9:32 AM: Little Ice Age Glacial Advances Found in the Southern Alps of New Zealand at 43°S Suggesting a Global Extent Alexzander Roman
- 9:44 AM: Surface Water Dynamics at Echo Glacier, Lingít Aaní Tahi Wiggins

10:00 - 10:30 AM: BREAK WITH REFRESHMENTS - ROOM 307

## NO FOOD OR DRINKS EXCEPT WATER IN ROOM 300

### **SESSION 6 Session Moderator: Tahi Wiggins**

- 10:30 AM: Birdsong: Multivocality in Human-Bird Relationships during the Ceramic Period in Wabanaki Homeland: A Case Study at Frazer Point (ME 44-49, ACAD 00110), Schoodic Peninsula, Maine Olivia L. Olson
- 10:42 AM: Comparing Measured and Modeled Glacier Ice Thicknesses Using In-Situ Ground Penetrating Radar Measurements on Jarvis Glacier, Eastern Alaska Mari Fromstein
- 10:54 AM: At Macroecological Scales and Across Coarse Climate Gradients the Realized Climatic Niche of U.S. Trees is Conserved Across Life History Bailey P. McLaughlin
- 11:06 AM: Analyzing Bubbles in Hyperspectral Images of Ice Cores Roisin Rumsey
- 11:18 AM: The Influence of Fjord Dynamics on Iceberg Distributions in NW Greenland Allie Berry
- 11:30 AM: Capturing Temporal and Spatial Dynamics of Diatoms in Crawford Pond, Northern Maine, for Ground-Truthing Stratigraphic Records Involving Aulacoseira Leonardo A. Villacís
- 11:42 AM: A Natural Experiment from the Alpine to the Arctic: Evaluating Local Adaptation in Herbarium Specimens Using Spectroscopy Andrea J. Tirrell
- 11:54 PM: Research as Heritage Work: A Participatory Action Case Study of Wabanaki Pottery Traditions Elizabeth L. Rodgers

## 12:15 PM - 1:00 PM: BUFFET LUNCH - ROOM 307

## NO FOOD OR DRINKS EXCEPT WATER IN ROOM 300

#### SESSION 7 Session Moderator: Emily Blackwood – Faculty Talks

- **1:00 PM: Quantifying Changes in Iceberg Response During Extensive Glacier Retreat** *Kristin M. Schild*
- 1:12 PM: Short-Term Impacts of Biochar Soil Amendment Include Increased Carbon Loss Kennedy F. Rubert-Nason
- 1:24 PM: Lava Loading and Melting on Martian Glaciers: Moulin Formation and the Fate of Meltwater

James L. Fastook

### SESSION 8 – INVITED UNIVERSITY OF MAINE ALUMNA LECTURE

1:30 PM:

Rachel A. Fowler, PhD., Biology Laboratory Coordinator, School of Biology & Ecology, University of Maine.

Harmful Algal Blooms (HABs) on the Horizon: Building a Risk Scorecard for Lakes in Acadia National Park

2:15 PM: CLOSING REMARKS – Dr. Dan Sandweiss

**AWARDS -- AWARD PICTURES** 

PRE RECORDED VIDEOS OF PARTICIPANTS WHO COULDN'T BE HERE THIS YEAR HAVE BEEN UPLOADED TO THE CCI YOUTUBE CHANNEL FOR VIEWING

Thank you to all the CCI graduate students who participated in moderating sessions, taking photographs, and assisting with event setup and clean up activities.

Special Thanks to Andrei Kurbatov for his assistance with the audio-visual component for this event.

A big thank you to our Borns Symposium judges.

THANK YOU!!