33rd Annual Harold W. Borns, Jr. Symposium
300 Bryand Global Science Center, Harold W. Borns Jr. Polar Facility

Conference Schedule
APRIL 15, 2026
12:00 PM: COFFEE / TEA / WATER – ROOM 307

12:30-12:40 PM: Welcome Address: Introduction by Dan Sandweiss**,** Interim Director Climate Change Institute, Libra Professor of Anthropology Climate Studies; Cooperating Professor, School of Earth and Climate Sciences and Global Policy.

SESSION 1 – Session Moderator: Thomas Grindle

12:40 PM: Holding Space for Eroded Landscapes and Indigenous Cultural Places: A View from the Holmes Point West Site in Passamaquoddy Homelands
Elizabeth Rodgers

12:52 PM: Archaeological Investigations of the Material Culture of the Little Ice Age from Long Point Preserve, Machias, Maine
Mackenzie Andersen

1:04 PM: Ice Thickness Estimates Across the Juneau Icefield from Ground-penetrating Radar Surveys
Renée Clavette

1:16 PM: Variable Carbon-nutrient Dynamics in Subarctic Lakes Across a Land-use Gradient in a Rapidly Warming Region
Amanda L. Gavin

1:28 PM: Investigating Global Synchrony - The Esmark of the South?
Mike Goodwin

1:40 PM: How Do Large Scale Climatic Gradients Influence Coordination Among Leaf Economic Spectrum Traits Across Tree Species?
Pratima Pahadi

1:52 PM: Using Integrated Paleolimnological Proxies to Reconstruct 150 Years of Genus-Specific CyanoHAB Responses to Seasonal Temperatures
Avery N. Lamb

2:04 PM: Alpine Plant Communities of Katahdin: Resilience and Change After 33 Years of Climate Change and Recreational Visitation
Andrea J. Tirrell

2:16 PM: Little Ice Age Glacial Advances Found in the Southern Alps of New Zealand at 43°S Suggesting a Global Extent
Alexzander Roman

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

SESSION 2 – DAVE CLAYTON SMITH LECTURE

3:00 PM:

Samuel Hanes, Associate Professor of Anthropology, University of Maine

Fighting the "Spoils System": The Problem of Securing Support for Early Fisheries Science

SESSION 3 - Session Moderator: Mikaila Mannello

3:50 PM: Interhemispheric Comparison of the Late Glacial Climate Reversal
Katherine Westbrook

4:02 PM: Unifying Topographic and Hydrodynamic Signals for Bluff Hazard Assessment Using Graphs and Graph Neural Networks
Samuel N. Walters

4:14 PM: Internationally Transferred Mitigation Outcomes and Land Conservation at COP30 Amazonia
C. Thacher Carter

4:20 PM: Technological Innovation through COP's Technology Mechanism: Balancing Mitigation and Monitoring Efforts with Long-Term Impact
Stephanie Forbes

4:26 PM: COP30 – Turning Promises into Action (Sort of)
Adam Fortier-Brown

4:32 PM: How COP30 Represents—And Fails to Represent—The Islands on the Frontlines of Climate Change
Keiran Lorentzen

–GROUP PICTURE–

SESSION 4 – 4:40 PM: POSTER SESSION – 3rd FLOOR HALLWAY

Tuning Hyperspectral Imaging for Cryptotephra in Ice Cores
Hayley L. Beaudoin

Contextualizing Copper Assemblages in Two Coastal Pre-Contact Sites
Ethan Kelley

Partial Least Squares Regression Coefficient Estimation from Alpine Plants: Creating a Model Suite of PLSR Coefficients for Plant Trait Estimation from Spectra
Braedon Lineman

Historic Preservation Policy Development in Land Conservation Contexts: A Case Study in Wabanaki Homeland
Deirdre McGrath

Subglacial Erosional Features in the Dry Valleys from the East Antarctic Ice Sheet
Abigail A. Norstad

An Investigation of the North Atlantic Oscillation's Impact on Extreme Snowfall Events on Mount Washington
Amber R. Stokes

From Microclimates to Physiological Risk: Modelling Thermal Landscapes of Birds in a Biodiversity Hotspot
Martiné van den Berg

Unifying Topographic and Hydrodynamic Signals for Bluff Hazard Assessment Using Graphs and Graph Neural Networks
Samuel N. Walters

Quantifying McMurdo Ice-Shelf Rumple Change and Impacts on Ice-Shelf Stability
Caroline Wexler

Paleoenvironmental Reconstruction of the Maruca Site in Ponce, Puerto Rico
Benjamin Whitaker

April 16, 2026

8:00 – 8:15 AM: COFFEE / TEA / WATER – ROOM 307

8:15 AM: Welcome: Interim Director, Dan Sandweiss

SESSION 5 - Session Moderator: Renée Clavette – Sturgis/Churchill Talks

8:20 AM: Let's get Visual on the North Coast of Peru
Emily M. Blackwood

8:32 AM: Glacier Slope Steepens as Marine-terminating Glaciers Retreat onto Land
Mathilde Børch

8:44 AM: Reconstructing Holocene Seabird Colony Dynamics in the Gulf of Maine Using Stable Isotope Records
Morgan E. Anderson

8:56 AM: Investigating the Spatiotemporal Patterns of *Asimina triloba* since the Last Glacial Maximum
Elijah Bradshaw

9:08 AM: Assessing Recovery from Acid Deposition in Alpine Lakes in Central Norway
Kayla Guthrie

9:20 AM: Calibrating Isotopic Analysis of *Trachycardium* Shell Material as a Proxy for ENSO Behavior in North Coastal Peru
Katelyn Johnson

9:32 AM: Fostering Relationships with Community Members near Klune Lake, Yukon Preceding Deep Core Drilling Plans of the Eclipse Icefield
Sicely Sohn

9:44 AM: Estimating Spatial Variation of Snowmelt to Enhance Understanding of Meltwater Input and Storage in the Snowpack at Taku Glacier, Juneau Icefield, AK
Mathilde Børch

9:56 AM: From Exploitative to Equitable Carbon Dioxide Removal
Cory Limberger

10:10 – 10:30 AM: BREAK WITH REFRESHMENTS – ROOM 307

SESSION 6 Session Moderator: Sicely Sohn

10:30 AM: Changing Susceptibility of Dissolved Organic Carbon to Photodegradation and Photobleaching Following an Extreme Weather Event in West Greenland
Thomas Grindle

10:42 AM: Scandinavian Ice Sheet Behavior During the Last Deglaciation and the Late-Glacial Climate Reversal
Tricia Hall Collins

10:54 AM: Evolution of Temperate Firn Under Melt Conditions
Mikaila Mannello

11:06 AM: Analysis of the December 18, 2023 Extratropical Cyclone
Ana Trueba

11:18 AM: Ground Truth and Direct Observation of Subglacial Hydrology and Sediment Controls on Basal Stability at Taku Glacier (T'aakú Kwáan Sít'i)
Jacob Holmes

11:30 AM: Recent Warming Following a Century of Intense Local Perturbation Drives Abrupt Shifts in Northern Maine Lake
Leonardo A. Villacís

11:42 AM: Combining UAV Remote Sensing with in Situ Snow Pits and Co-located Automated Weather Data to Make High Spatiotemporal Resolution SWE Estimates
Wyatt Stanley

12:00 PM – 12:45 PM: BUFFET LUNCH – ROOM 307

SESSION 7 Session Moderator: Kayla Guthrie – Faculty Talks

12:45 PM: Jacobson CCI Distinguished Service Award
2026 Jacobson committee: Elizabeth Rodgers, Alexzander Roman, Leonardo Villacís

12:55 PM: Potters' Choices and Wabanaki Socio-Spatial Organization: An Archaeological Exploration of the Kennebec River Boundary Hypothesis
Bonnie D. Newsom

1:07 PM: The Anticipation of Infrastructure in the Arctic
Natalia Magnani
Matthew Magnani

1:11 PM: Effects of Biochar Quality and Tree Species on Soil Carbon and Water Retention
Kennedy F. Rubert-Nason

1:15 PM: Biogeochemical Cycles of Sub-Arctic Agroecosystems: Quantifying System Properties and Forecasting Future Scenarios
Jasmine E. Saros

1:19 PM: The Juneau Icefield as a Polar Proving Ground for Collaborative Science, Technology Development, and Workforce Training
Peter D. Strand
Scott Braddock
Ryan K. Cassotto

SESSION 8 – INVITED UNIVERSITY OF MAINE ALUMNUS LECTURE

1:30 PM:
Sean Birkel, Assistant Professor, Climate Change Institute and Cooperative Extension, Maine State Climatologist, University of Maine

A Brief History of Maine's Coldest Winters and a Frozen Penobscot Bay

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, assisting with posters, 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!!