

30th Annual Harold W. Borns, Jr. Symposium
300 Bryand Global Science Center, Harold W. Borns Jr. Polar Facility

Conference Schedule

April 6, 2023

12:45 PM: COFFEE / TEA / WATER (No food) – ROOM 307

NO FOOD OR DRINKS EXCEPT WATER IN ROOM 300

1:00-1:05 PM: Welcome Address: Introduction by Dr. Paul Andrew Mayewski, Climate Change Institute, Director and Professor.

SESSION 1 – Session Moderator: Karina Cortijo-Robles

1:05 PM: Digitizing the Archaeological Record: The Ostra Collecting Station
Emily M. Blackwood

1:17 PM: Assessing the Compatibility of Climatic Mechanisms Responsible for the Most Recent Ice Age Climate Through Constructing a ¹⁰Be Glacial Chronology in the Wind River Range at 44°N
Alexzander Roman

1:29 PM: Water Quality in the Rapidly Changing Environment of South Greenland
Ligja Naveira

1:41 PM: Reconstructing Extinct Herbivore Community Structure Through High-Resolution Coprolite Analysis: An Insight into the Mammoth Steppe's Coproecology
Alessandro Mereghetti

1:53 PM: Calibration Methodology for Laser Ablation of Ice Core Samples
Lela Gadrani

2:05 PM: Evaluation of Public Policy and Covid-19 Pandemic Impacts on Historic Asian Pollution Emissions Using Alaskan Ice Core Lead Data
Hanna L. Brooks

2:17 PM: Addressing Mercer's Paradox: A Comparison of Mid-Latitude ¹⁰Be Glacier Chronologies from Moraines Deposited During the Last Glaciation
Lauren Woods

2:29 PM: Oh, the Places They'll Grow!: Do Trees' Climate Tolerances Differ Across Life-History?
Bailey P. McLaughlin

2:41 PM: A Key to Past Ocean Temperatures: Mg/Ca of Foraminiferal Calcite in the North Atlantic (*N. incompta*)
Madelyn N. Woods

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

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SESSION 2 - Session Moderator: Nikhil Brocchini – Churchill / Sturgis Talks

3:30 PM: Bio-Physical and Socio-Political Vulnerabilities: A Case Study from World's One of the Most Climate Vulnerable Regions, Karnali Nepal

Suman Acharya

3:42 PM: Snow Properties and Observations on the Quintino Sella and Seward Glaciers, Kluane National Park & Reserve, Yukon Territory, Canada

Mikaila Mannello

3:54 PM: A Sky Island Perspective: New England Alpine Plant Distributions Across the Region

Andrea J. Tirrell

4:06 PM: Investigating the Influence of Spanish Colonization on Climate Adaptation and Community Resilience on Peru's North Coast

Elizabeth Leclerc

4:18 PM: Ground-Penetrating Radar Survey of the Upper Kahiltna Glacier, Denali National Park, Alaska

Scott Braddock

4:30 PM: The Relationship Between Snow Accumulation and Melt Percolation on Eclipse Icefield, Yukon, Canada

Ingalise Kindstedt

4:42 PM: Capturing Englacial Deformation on the Begguya (Mt. Hunter) Plateau, Denali National Park, Alaska

Emma Erwin

4:54 PM: Abrupt Climate Change in Maine During Termination I

Maraina Miles

5:06 PM: Tracking Shifts in the Westerlies at Baboon Lakes, Central Sierra Nevada, California Over the Last 12,000 years

Meghan Spoth

SESSION 3 – 5:15 PM: POSTER SESSION - HALLWAY / CASH BAR – ROOM 307

Quantifying Spatial and Temporal Variability in Temperate Snowpack Properties and Meltwater Runoff from Two Study Sites in Southeast Alaska

Keegan Bellamy

What Controls Iceberg Abundance and Distribution Around Northwest Greenland?

Allie Berry

Long-term Arctic Land Use Patterns and Global Climate Change Modeling

Joseph Boots-Ebenfield

Megafaunal Non-Extinction: An Agent-Based Modeling Approach

Nikhil R. Brocchini

Identifying and Monitoring a Subglacial Lake Under Temperate Ice on the Juneau Icefield, Alaska

Renée Clavette

Reconstructing the Paleotempestology Record from the Tibes Indigenous Ceremonial Center at Ponce, Puerto Rico

Karina M. Cortijo-Robles

Quantifying Glacier Dynamic Change Using an 81-year Record of Remote Sensing

Jordan E. Farnsworth

Glacially Fed Lakes: Sinks of Nutrients and Heavy Metals?

Ansley Grider

Using Past Glacial Response to Climate Change to Predict Water Scarcity in the Western US

Tricia Hall Collins

Spatial Dynamics of Maine Lobster Landings in a Changing Coastal System

Jaeheon Kim

Investigating Climate Drivers of Decreasing Mayfly Populations in Maine

Mica Pugh

Examining the Meteorology and Climatology of Recent Extreme Weather Events

Ana M. Trueba

April 7, 2023

8:15 – 8:30 AM: COFFEE / TEA / WATER (No food) – ROOM 307

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8:30 – 8:35 AM: Welcome: Dr. Paul Mayewski

SESSION 4 - Session Moderator: Nikhil Brocchini

8:35 AM: Reconstructing Maine's Fire History Using Braided Knowledge Systems

Madeleine Landrum

8:47 AM: Climate and Waste Management: Calls for Closing Resource Loops

Erin Victor

8:59 AM: Exploring Agritourism as an Adaptation to Climate Change

Katherine C Follansbee

9:11 AM: Sediment Plume Geometry in Response to Retreating Tidewater Glaciers: Qalerallit Imaa, South Greenland

Sydney J.N Baratta

9:23 AM: Reconstructing the Paleoenvironmental Context of the Seabasticook Lake Fish Weir Complex

Kit Hamley

9:35 AM: Expanding Methods for Historical Cyanobacterial Reconstructions Using Sedna and Photosynthetic Pigments

Avery N. Lamb

9:47 AM: An Interdisciplinary Review: How Rapid Climate Change Is Impacting Human Health, Environmental Policy, and Voter Behavior

Douglas M. Hasson

9:59 AM: ScandEntropy: Modeling Treeshrew Climatic Niches

Eric Brown

10:15 – 10:45 AM: BREAK WITH REFRESHMENTS – ROOM 307

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SESSION 5 Session Moderator: Karina Cortijo-Robles – Faculty Talks

10:45 AM: The Anthropocene: A New Epoch, a Geologic Event, or an Informal Concept?

Jacquelyn L. Gill

10:57 AM: Taking Stock of Global Mitigation Progress in “Light of Equity and The Best Available Science”: Should Science “Heat Up” Debates About Equity?

Cindy Isenhour

11:09 AM: The Juneau Icefield Research Program: A ‘New’ Earth & Planetary Sciences Polar Proving Ground & Training Program

Seth Campbell

11:13 AM: Household Water Insecurity in the Arctic: Surveillance, Analysis of Causes and Consequences, and the Evaluation of Mitigation Efforts

Kiley Daley

11:17 AM: Fleeting Fields of Zadar (Croatia): Tracking Millennial-scale Urbanization, Land Cover Change, and the ‘Great Acceleration’ of the Twentieth Century

Gregory Zaro

11:21 AM: Observational Evidence for Depth-Dependent Iceberg Ablation Rates Using Apres, Remote Sensing, and in Situ Hydrography

Kristin M. Schild

11:25 AM: Charge-Augmenting Modes for Plugin Hybrid Electric Vehicles

Sudarshan S. Chawathe

CLOSING REMARKS – Dr. Dan Sandweiss/ Dr. Paul Mayewski

AWARDS -- AWARD PICTURES -- GROUP PHOTO

11:45 PM – 12:30 PM: BUFFET LUNCH – ROOM 307

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Thank you to all of 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, Paul Mayewski, Karl Kreutz, Dan Sandweiss, Jasmine Saros, Sean Birkel, and Jim Roscoe.

THANK YOU!!