

Conference Schedule

April 13, 2017 – Wells Conference Center

12:00 PM: COFFEE / TEA / WATER

12:00-12:05 PM: **Welcome Address:** Introduction by Paul Mayewski, Climate Change Institute, Director and Professor.

SESSION 1 (Session Moderators: Jessica Scheick and Jacquelynn Miller)

12:05 PM: **Potential for a Second Volcanic Source for Mt. Agung (1963 C.E.) Attributed Sulfur Spike in Antarctic Ice Cores**

Sarah D. Wheatley

12:17 PM: **Implications for Southwest Greenland from a Warming Arctic**

Jeffrey D. Auger

12:29 PM: **Bird Abundance in the *Ascophyllum* Habitats in the Maine Rocky Intertidal Zone**

Amy M. Baron

12:41 PM: **Ecological Effects of Nutrients and Turbidity in Lakes Fed by Greenland Ice Sheet Meltwater**

Benjamin Burpee

12:53 PM: **The Link Between Climate Change, Harmful Algal Blooms, and Algal Toxins on the Development of Neurological Diseases**

Matthew Kruger

1:05 PM: **Occurrence Patterns of Wintering Red-Throated Loons (*Gavia Stellata*) in Relation to Proposed Offshore Wind Energy Areas in the Mid-Atlantic U.S.**

Carrie E. Gray

1:17 PM: **A 2,000-Year Climate History of Central Asia**

Charles I. Rodda

1:29 PM: **Seasonal Analysis of Two Major Archaeological Sites in Eastern Maine using Modern and Excavated Marine Bivalve Mollusks, *Mya arenaria***

Emily M. Blackwood

1:41 PM: **Lateral Shearing of the McMurdo Shear Zone, Antarctica: Implications on Ice Shelf Stability**

Lynn Kaluzienski

2:00-2:20 PM: **SHORT BREAK WITH REFRESHMENTS**

SESSION 2 (Session Moderator: Jeffrey Auger)

2:20 PM: **Effects of Geese and Caribou on Nutrient and Carbon Inputs to Arctic Lakes in Southwest Greenland**

Carl Tugend

2:32 PM: **Spatial and Spectral Analysis of A Buried Archaeological Site on The North Coast of Peru: Implications for Climate Change and Human Adaptation**

Anne St. Amand

2:44 PM: A Bi-Hemispheric Perspective on the Last Glacial Termination from the Southern Alps of New Zealand and the Altai Mountains of Western Mongolia

Peter D. Strand

2:56 PM: Humans and the Falkland Islands Warrah: Investigating the Origins of an Extinct Endemic Canid

Kit Hamley

3:08 PM: Hardware-Accelerated Hydrodynamic Modeling Enables Three-Dimensional Study of Bedrock Channel Evolution

Nicholas Richmond

3:20 PM: Sealing the Deal: Genetic Analysis of Archaeological Phocid Bone from the Holmes Point West (62-8) Site Near Machias, ME

A. Sky Heller

3:32 PM: Radiocarbon Chronology of Ice Extent in the Transantarctic Mountains from the Hatherton Glacier Region

Courtney King

3:44 PM: Distinguishing Between Clouds and Icebergs Along Greenland's Marine Margins

Jessica Scheick

3:56 PM: Have Rapid Climate Change Events Following Deglaciation Outpaced Trees' Ability to Keep Up?

Benjamin J. Seliger

4:08 PM: Implications of Extreme Precipitation Events on Lakes in Acadia National Park

Kate A. Warner

4:20 PM: Spatial Structure of Ecological Specialization: Implications for Conservation in a Rapidly Changing Environment

Meaghan Conway

4:32 PM: Annotating Unit Functions in the Climate Data Workbench

Mark Royer

SESSION 3 – 4:45 - 5:15 PM: POSTER SESSION / CASH BAR

Direct Geologic Constraints of the East Antarctic Ice Sheet During the Pliocene

Alexandra Balter

Dust and Trace Metal Analysis from SPICE Core, Antarctica

Aaron Chesler

Investigating Ultra-High Resolution Glaciochemical Records within Ancient Ice

Heather M. Clifford

Identifying Pollen of Native Grasses from the Falkland Islands to Build a Reference Collection

Kayla Greenawalt

Improving Geochemical Fingerprinting of Ultra Fine Tephra Particles

Laura H. Hartman

Effectiveness of a UNFCCC Adaptation Fund Project in Enhancing Resilience to Climate Change in Northwestern Nicaragua

Anna McGinn

Ground Penetrating Radar and Archaeological Site Delineation: Quantifying Rapidly Eroding Shell Middens Along the Coast of Maine

Jacquelynn F. Miller

Implications of Changing Snowpack for Alpine Lakes: Response of Diatom Communities in Rocky Mountain Lakes

Edna Luz Pedraza Garzón

Holocene Deglaciation at Amundsen Glacier, Antarctica

Jill N. Peltó

Excavations at Tranquility Farm: A Seasonality Analysis Using Mollusk Remains

Kate Pontbriand

A New Ice Core From Osjollo Anante, Peruvian Andes - Preliminary Results

Mariusz Potocki

Chronology of the Last Termination of Tsagaan Gol-Potanin Glacier Valley, Altai Mountains, Mongolia Using ¹⁰Be Surface Exposure Dating

Mariah J. Radue

Reconstruction and Analysis of the Most Damaging Storms in Maine over the Past 20 Years

Julia M. Simonson

A Multi-Proxy Reconstruction of Holocene Environmental and Climate Changes in Jamaica, West Indies

Mario A. Williams

5:15-6 PM: BUFFET DINNER -- CASH BAR

SESSION 4

INVITED UNIVERSITY OF MAINE ALUMNI LECTURE

6:00 PM:

Gordon Bromley, Research Assistant Professor, Climate Change Institute & School of Earth and Climate Sciences, University of Maine (PhD, Earth Sciences, University of Maine, 2010)

The Loch Lomond Affair: Exploring the Terrestrial Impact of Abrupt Climate Change in the North Atlantic

April 14, 2017 – Wells Conference Center

7:30 AM: COFFEE / LIGHT BREAKFAST

SESSION 5 (Session Moderator: Peter Strand)

8:00 AM: Declining Dissolved Oxygen in the Central California Current Region

Alice S. Ren

8:12 AM: Implications of Abrupt Climate Change in Chile's Territorial Use Rights in Fisheries Policy

Sarah Ebel

8:24 AM: Experimental Assessment of Possible Mechanisms for Shifting DOC Concentration and Quality in Freshwater Lakes of Southwest Greenland

Rachel A. Fowler

8:36 AM: A Statistical Model for Monitoring Shell Disease in Inshore Lobster Fisheries: A Case Study in Long Island Sound

Kisei R. Tanaka

8:48 AM: What Would You Say is Causing the Increase in Deer Ticks? Views from the Unbridged Islands of Maine, USA

Susan Elias

9:00 AM: Mapping Adaptation Imaginaries: An Ecology of Practice for Climate Development

Jamie Haverkamp

9:12 AM: The Interaction of Climate and a Marine-Terrestrial Linkage in the Falkland Islands?

Dulcinea V. Groff

9:24 AM: A Model for Screening Persistent Organic Pollution Risk from Glacial Meltwater

Kimberley Rain Miner

9:36 AM: The Impacts of Competition on Juvenile Atlantic salmon (*Salmo salar*) Recovery in a Rapidly Changing Climate

Nicole C. Ramberg-Pihl

9:48 AM: Distribution Patterns of Planktonic Diatoms in Lake Superior in Response to Climate

Amy Kireta

10-10:20 AM: SHORT BREAK WITH REFRESHMENTS

SESSION 6 (Session Moderator: Kimberley Miner)

10:20 AM: Thermoregulatory Physiology as a Tool for Predicting the Vulnerability of Small Mammals To Climate Change

Danielle L. Levesque

10:25 AM: Changes in Atmospheric Circulation from Volcanic Aerosol Forcing as Key Driver of North Atlantic Sea-Surface Temperature Variability

Sean D. Birkel

10:30 AM: Understanding the Continued Demise of Columbia Glacier, Alaska, Using High-Resolution Satellite Remotely-Sensed Observations
Ellyn M. Enderlin

10:35 AM: The Oceans in International Climate Policy: Oceans Governance After Paris
Aaron L. Strong

10:40 AM: Extended Product Lifetimes as Climate Mitigation Policy
Cindy Isenhour

10:45 AM: Functional-Programming with Generic Mapping Tools (fGMT)
Sudarshan S. Chawathe

10:57 AM: Are Novel Plant Communities Also Novel Ecosystems? Plant Traits Link Pattern and Processes Over 21,000 Years of Global Change
Jacquelyn L. Gill

11:09 AM: Carbon Dioxide Glaciers on Mars
James L. Fastook

DAVE CLAYTON SMITH LECTURE

11:30 AM:
Stephen Hornsby, Director, Canadian-American Center; Director, National Resource Center on Canada; Professor of Geography & Canadian Studies, University of Maine (PhD, University of British Columbia, 1986)

Climate, Environment, and the Historical Atlas of Maine

**AWARDS AND AWARD PICTURES-- Closing Remarks
PICTURES BEFORE WE BREAK FOR LUNCH – GROUP PHOTO – PHOTO OF GUEST SPEAKERS**

12:15 PM: BUFFET LUNCH

Thank you to all of the CCI graduate students who participated in moderating sessions, as well as those who assisted with event setup and clean up activities.

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A big thank you to our Borns Symposium judges, Karl Kreutz, Paul Mayewski, Dan Sandweiss, Jasmine Saros, and Greg Zaro.

THANK YOU!!