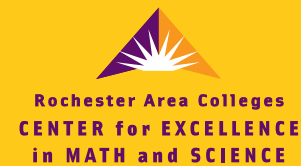


FINGER LAKES Regional Educator Collaboration Event

Climate Change and its Impact on the Environment



Join us! This exciting event will bring together experts in biology and earth sciences as we discuss current research findings and projects that examine the reality of climate change.

During this event you will:

Hear keynote speaker, Dr. Chris Linder, Research Associate for the Physical Oceanographic Department of the Woods Hole Oceanographic Institute, provide insights into the harsh realities of climate change.

Participate in a panel discussion with students and teachers from school districts in the region concerning learning opportunities and implementation of positive changes to reduce our carbon footprint.

Share your knowledge and your questions concerning climate change with other K-16 educators and experts in biology and earth sciences.

Celebrate the partnership of the Finger Lakes Institute and RAC-CEMS to bring this event to educators in the region.

HOBART AND WILLIAM SMITH COLLEGES CAMPUS

VANDERVORT ROOM/SCANDLING CENTER
GENEVA, NY

THURSDAY, MARCH 25, 2010
8:00 AM – 3:00 PM

EVENT PROGRAM



THURSDAY, MARCH 25

8:00 8:30 **Opening Remarks/Welcome: HWS President Mark Gearan and Charles Brown, RAC-CEMS**

8:30 10:45 **Concurrent Sessions (two strands)**

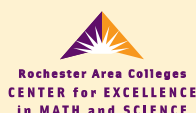
	Biology	Earth Science
8:30 9:30	Jen Schaus, Cornell Lab of Ornithology: Tracking Bird Migration Patterns	Dr. Tara Curtin, HWS: Using Ice Core Data to Track Global Warming
9:45 10:45	Frank Moses, Montezuma Audubon: Creating Climate Change Curriculum	Richard Kissel, Museum of the Earth: Climate Change Through Time

11:00 Noon **Keynote Speech**

LUNCHEON & PANEL DISCUSSION

Lunch will be followed by a presentation by the Alliance for Climate Education. The day will conclude with a panel discussion composed of students and teachers from school districts in the region. The panel will focus on learning opportunities and the implementation of positive changes to assist in reducing our carbon footprint.

Conference sponsored by FLI and RAC-CEMS



KEYNOTE SPEAKER

DR. CHRIS LINDER

The keynote address will feature Dr. Chris Linder, Research Associate for the Physical Oceanography Department of the Woods Hole Oceanographic Institution. In the keynote lecture: *Life on the Ice: Antarctica's Adélie Penguins*, Dr. Linder will tell the story of life in a penguin colony, the tools researchers use to study them, what scientists are learning and how it relates to climate change.

Dr. Linder divides his time at WHOI between field photography, science writing, web design, and physical oceanography research. He is truly a visual storyteller, using photographs and words to tell the stories of oceanographers working in the field. In conjunction with the International Polar Year (2007-2008), he documented scientists working in the Arctic and Antarctic. This project, titled *Live from the Poles*, was funded by the National Science Foundation. Dr. Linder is an exciting explorer/photographer who will bring the harsh realities of climate change to the entire audience.

PRESENTATIONS INCLUDE:

TRACK A: BIOLOGY

JEN SCHAUS, CORNELL LAB OF ORNITHOLOGY: "How Does Climate Change Impact Birds?"

Through a brief activity, we'll explore the various ways that birds are affected by human activities, including climate change. There will be a follow up discussion about the current research on the topic. We'll also briefly explore how we know what we know, giving you a "bird's eye view" of citizen science and how you and your students can participate and contribute to everyone's understanding of bird populations.

FRANK MOSES, MONTEZUMA AUDUBON: "Creating Climate Change Curriculum"

During this presentation, Frank will provide an overview of climate change related curriculum developed by Audubon and how it can be incorporated into Biology studies in the classroom. Biomimicry and Habitat Enhancement's Role in Sequestering Carbon are two topics of interest and will be discussed during the session.

TRACK B: EARTH SCIENCE

TARA CURTIN, HWS GEOSCIENCE DEPARTMENT: "Climate Change Using Ice Core Records"

Ice cores from Antarctica and Greenland provide one of the most important archives of the changing climate. Not only do ice cores reveal an ongoing record of past climate, they also shed light on the processes that drive climate change. In this interactive session, we will examine modern atmospheric CO₂ data and then use these data as a basis for interpreting longer ice core records of climate change.

RICHARD KISSEL, MUSEUM OF THE EARTH: "Climate Change Through Time"

The Earth is a dynamic system, constantly evolving across millions of years. In this presentation, we will explore the history of our dynamic planet and the effect that past climate change has had on the life that calls it home.

REGISTER ONLINE AT WWW.RACCEMS.ORG