



EMPOWERING CAPABLE CLIMATE COMMUNICATORS 2017

**THE SCIENCE OF CLIMATE CHANGE – WHAT WE KNOW, WHAT WE DO NOT KNOW,
WHAT IT MEANS, AND WHAT WE MUST DO
FEBRUARY 11 – 8:30 am to 3:30 pm**

Sessions held in Room 126, Cox Science Center
on the Coral Gables Campus of the University of Miami.

Presentations, discussions, & training sessions by leading climate scientists & communicators,
focusing on the causes, severity, & impacts of human-induced climate change
and what must be done, to adapt to, to stop, and then to reverse the trend.

The goal of this training event series is to make delegates
sufficiently conversant with the topics and with adequate materials
so that they can begin to effectively educate others.

Participants are expected to fully participate in the event.
February 11 focus is on the science and what we need to do
An optional February 25 event will focus on effective communication of this politically charged topic.



Empowering Capable Climate Communicators Training Series is
SPONSORED BY
the COLLEGE OF ARTS AND SCIENCES,
the DEPARTMENT OF GEOLOGICAL SCIENCES
of the University of Miami
and the CLEO INSTITUTE

Contact Dr. Harold R. Wanless, Dept. Geological Sciences for further program information.
305-284-4253 or hwanless@miami.edu

TO REGISTER: The CLEO Institute is in charge of registration and is your contact for climate change training opportunities and involvement – <http://www.cleoinsitute.org>

There is no registration fee for Students and for University of Miami Faculty and Staff. (use code ECCC17)

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Day I – Saturday February 11, 2017:

The Science of Climate Change & Human-Induced Atmospheric and Ocean Warming, Ice Melt, Sea Level Rise, Ocean Acidification, Extreme Weather, Desertification, Changing Health and Disease Vectors – *What we know, what we do not know, what it means, and what we must be doing now.*

- 8:30 Registration, coffee, tea and bagels and more (Cox Science Building, Lecture Hall #126, off lobby)
- 9:00 Welcome and Introduction; scope of program series; practicalities
Dr. Harold R. Wanless, Department of Geological Sciences, University of Miami
- 9:10 The Reality of Human-Produced Global Warming; how global warming works; certainties and uncertainties; anticipated changes in rainfall and extreme weather events for the coming century.
Dr. Benjamin Kirtman, Department of Ocean Sciences, Rosenstiel School of Marine and Atmospheric Science, University of Miami; and Director of CIMAS and Center for Computational Science Climate and Environmental Hazards Program
- 10:00 The Cyclic Drivers of Climate Change Through Geological Time; How Human Activity Has Overwhelmed the Natural Cycles. *Dr. Harold R. Wanless*
- 10:20 Dynamics and Influence of a Warming Ocean. *Dr. Harold R. Wanless*
- 10:40 Ice Sheets, Glaciers and Pack Ice: what they are, how they work, and how they are responding to human-induced global warming; what they are doing now and will do this century; potential for catastrophic collapse.
Dr. John Van Leer, Department of Ocean Sciences, Rosenstiel School of Marine and Atmospheric Science, University of Miami
- 11:10 Human-induced Global Sea Level Rise: current projections and explanations; comparison with the past; global versus regional influences on sea level change; what to expect for south Florida and coastal environments globally; pollution with inundation. *Dr. Harold R. Wanless*
- 11:40 Risk and Solutions In Planning for Sea Level Rise. *Erin Deady, ESQ. AICP; Erin L. Deady, PA*
- 12:10 Lunch Break
- 12:50 A Warming and Acidifying Ocean – Serious Implications for Life and Productivity
Dr. James Klaus, Department of Marine Geosciences, RSMAS, University of Miami
- 1:30 Changing Health & Disease Concerns with Global Warming and Sea Level Rise. *Dr. Maribeth Gidley, NOAA Epidemiology & Public Health, Miller School of Medicine, University of Miami*
- 2:10 Ice Melt & Sea Level Rise Might Be Much Faster Than Models Predict. *Dr. Harold R. Wanless*
- 2:30 Geo-Engineering: Can We Have Our Cake and Eat It Too? *Dr. William Drennan, Department of Ocean Sciences, Rosenstiel School of Marine and Atmospheric Science, University of Miami*
- 3:00 Mapping Coastal Inundation and Infrastructure Vulnerability to Sea Level Rise. How maps let us see our likely future. *Dr. Harold R. Wanless, Department of Geological Sciences, University of Miami*
- 3:15 How Coral Gables is Using Maps to Plan and Prepare.
Honorable Jim Cason, Mayor of Coral Gables
- 3:30 End of Day.