

Integrative Climate Change Biology (iCCB)  
Workshop 2014

*Traits in Texas:  
Ecometrics, phylogeny, fossils, and biotic  
change*

6-8 April 2014

**Organizers:**

Jussi Eronen

Senckenberg Research Institute und Nature Museum  
Biodiversity and Climate Research Centre LOEWE BiK-F, Frankfurt am Main  
and  
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## Background

A wealth of data now exists on biotic changes that occurred over the last one to two decades, but scientific understanding of the processes involved, the magnitude of the changes, and their likely outcomes is still in its infancy, largely due to the lack of long-term baselines against which to compare these data. The Integrative Climate Change Biology program (iCCB) is working to provide appropriate baselines by integrating data from long-term ecological studies and the even longer-term data provided by paleontology. A trait-based, community macroecology approach allows integration of data across the temporal and spatial scales at which climate change biologists, ecologists, and paleontologists work. In its current phase, the iCCB is disseminating this approach through outreach aimed at researchers and university students around the world via web and strategically chosen conference symposia, through sharing of trait-based data to facilitate new research in this area, and through original research by iCCB working groups.

## iCCB Main Goals

- The integration of ecology, paleontology, and climate science and the establishment of a baseline for assessing 21<sup>st</sup> Century responses of the Earth's biota to climate change.
- The dissemination of trait-based *approaches* for integrative research.
- The dissemination of trait-based *data* to facilitate research.

## 2014 Workshop Aims

- This workshop aims to further existing iCCB research projects and to involve relevant new researchers in iCCB with a special focus on strengthening US participation.
- We will also prepare for the proposed SVP symposium in Berlin (Nov 2014), a Berkeley meeting in 2015, and a training workshop in Panama in 2015.

## Plenary Lectures

iCCB presents two plenary lectures by Professor Marvalee H. Wake and Professor Nils Chr. Stenseth on Sunday April 6th from 6 - 8:30 pm at the Agrilife Center.

Marvalee H. Wake is Professor of the Graduate School in the Department of Integrative Biology at the University of California, Berkeley and has served as president of five major scientific societies (American Institute of Biological Sciences, the American Society of Ichthyologists and Herpetologists, the International Society of Vertebrate Morphology, the International Union of Biological Sciences, and the Society of Integrative and Comparative Biology). She is a key player in the development of the discipline of integrative biology and will speak about "Taxa and Traits: The Integration of Biology, Phylogenetics, and Climate Change Models to Assess Patterns of Evolution."

Nils Chr. Stenseth is Professor and Chair for the Centre for Ecological and Evolutionary Synthesis at the University of Oslo, the president of the Norwegian Academy of Sciences and Letters, Chief Scientist of the Norwegian Institute of Marine Research, and the current president of the International Union of Biological Sciences. He is an *ISI Highly Cited* researcher within Ecology/Environment. Professor Stenseth contributed seminal work on the Red Queen Hypothesis and will speak about "Biotic and Abiotic Interactions in Evolution: The Red Queen Perspective on Evolution in Biotic Communities."

## Participants

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**Marvalee H. Wake** Department of Integrative Biology, University of California, Berkeley, California 94720 mhwake@berkeley.edu

## **Workshop Schedule**

### *Day 0 (Saturday, April 5)*

- 2:00pm Field excursion to Brazos and Little Brazos River for marine Eocene fossils
- 7:30 Arrival dinner – meet in lobby of Hilton and walk across street to Abuelos

### *Day 1 (Sunday, April 6)*

- 9:00 Shuttle from Hilton to HSFB (Horticulture and Forest Science Building)
- 9:15 Welcome and Overview of iCCB
- 9:45 Introductions (1 slide each participant)
- 10:30 Coffee Break
- 10:45 Presentations on current research projects
- 11:30 Discussion (and new project ideas)
- 11:45 Lunch
- 1:00 Discussion (and new project ideas)
- 3:45 Afternoon Wrap-Up
- 4:00 Shuttle to hotel
- 5:45 Meet in lobby, shuttle from Hilton to AgriLife Center
- 6:00 Plenary lectures and social event
- 8:30 Shuttle to Hilton / Optional Dinner – options across street from Hilton
- 8:45 Steering Committee Dinner at Veritas (Polly, Eronen, Deitl, Stenseth, and Wake)

### *Day 2 (Monday, April 7)*

- 9:00 Shuttle from Hilton to HSFB (Horticulture and Forest Science Building)
- 9:15 Databases, traits, and planning for iCCB portal
- 10:30 Coffee Break
- 10:45 Research project working groups
- 11:45 Lunch
- 1:00 Research project working groups

- 4:45 Afternoon Wrap-Up
- 5:00 Shuttle to hotel
- 7:00 Dinner – meet in lobby of Hilton walk across street

*Day 3 (Tuesday, April 8)*

- 9:00 Shuttle from Hilton to HSFB (Horticulture and Forest Science Building)
- 9:15 Working group reports
- 10:30 Coffee Break
- 10:45 Berkeley planning (next meeting in 2015)
- 11:15 Berlin SVP planning
- 11:30 Panama training workshop planning
- 11:45 Workshop Wrap-Up
- 12:00 Shuttle to Hilton

**Food**

Participants should have breakfast at their own leisure in the morning before catching the shuttle to HSFB. During lunch break, participants can walk to a nearby cafeteria, Northgate or the Memorial Student Center (MSC). Arrival dinner will be at Abuelos. For other dinners, the participants can choose from a variety of restaurants across the street from the Hilton. Meal costs will be reimbursed with receipts. As we have limited resources, please help keep meal costs reasonable.

**Accommodation**

Each participant will have an accommodation at the Hilton College Station & Conference Center (801 University Dr. East College Station, TX 77840). Participants will drive or take a shuttle to HSFB (Horticulture and Forest Science Building). The workshop will utilize conference rooms 302 and 312.

**Travel**

Each participant should book their plane ticket and will be reimbursed by iCCB. You can choose to either fly into College Station (airport code CLL) or Houston (airport codes IAH or HOU). The College Station airport has only a few choices for flight times, so you should check the other two airports if you find long layover times to CLL. If you decide to fly into Houston, you can take a ground shuttle to College Station (<http://groundshuttle.net>). It will drop you off directly at the hotel. Depending on the number of pick-ups and drop-offs, the shuttle will take between an hour and a half and two hours.

**Logistics contact**

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