



## Lessons learnt from paleoscience on a possible 1.5-2°C warmer world in the future

5 – 7 April 2017, University of Bern, Switzerland

It is now entering the public consciousness that future warming triggered by near-term anthropogenic greenhouse gas emissions will last for many millennia. It is not possible to understand the scale of these long-term impacts based on the short history of direct instrumental observations alone. However, the multitude of climatic and environmental information stored in natural climate archives together with climate model results allow us to draw a comprehensive picture of how different components of the Earth system with long response times will change in a warmer world.

### SCOPE OF THE WORKSHOP

The goal of the workshop is to summarize the current state of knowledge on the paleo-response of the Earth System to a 1.5-2°C warming. It will also lay out future scientific actions to add to this knowledge in order to come up with authoritative assessments of future long-term changes in the Earth system as expected from past examples of warmer climate conditions.

### FORMAT AND SESSIONS

The workshop will comprise plenary talks and discussions as well parallel sessions:

- Time periods in the past that can inform about potential long-term changes in the future
- Caveats of using paleo-information
- Examples of past changes of Earth system components in a warmer world
- Paleo-responses of physical and eco-systems, hydroclimate as well as of biogeochemical cycles to a 1.5-2°C warming

### CALL FOR CONTRIBUTIONS

We encourage oral contributions on topics related to all aspects of the workshop topics. Abstracts for oral presentations should be submitted to the conference organizers via the conference website at

[www.oeschger.unibe.ch](http://www.oeschger.unibe.ch) > News and Events > **Warmer World Paleoworkshop**

**Abstract Submission Deadline: 29 January 2017; Decision on acceptance by 5 February 2017**

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### CONFIRMED SPEAKERS

Quing Yan (Chinese Academy of Science), Katrin Meissner (U. New South Wales, Australia), Erin Mc Clymont (Durham U., U.K.), Bette Otto-Bliesner (NCAR, USA), Emilie Capron (U. of Copenhagen, Denmark), Victor Brovkin (MPI for Meteorology, Germany), Max Holloway (U. of Bristol, U.K.), Nerilie Abram (Australian National U.), Anders Carlson (Oregon State U., USA), Eric Wolff (U. of Cambridge, U.K.), Liping Zhou (Peking U., China), Sheri Fritz (U. of Nebraska, USA), Fortunat Joos (U. of Bern, Switzerland), Willy Tinner (PAGES & U. of Bern, Switzerland), Daniele Colombaroli (U. of Bern, Switzerland), Valerie Masson-Delmotte (IPCC WG1 & LSCE Paris, France), Hubertus Fischer (PAGES & U. of Bern, Switzerland), Anne-Laure Daniau (U. of Bordeaux, France), Sarah Finkelstein (Canada), Kelsey Dyez (Lamont Doherty Earth Observatory, USA), Jacky Austermann (U. of Cambridge, UK), Jennifer Marlon (Yale U., USA), Alan Mix (Oregon State U., USA), Pepijn Bakker (Marum Bremen, Germany)

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### SCIENTIFIC COMMITTEE

Hubertus Fischer, Climate and Environmental Physics & Oeschger Centre for Climate Change Research, University of Bern, Switzerland  
Katrin Meissner, Climate Change Research Centre, University of New South Wales, Sydney, NSW, Australia  
Alan Mix, College of Earth, Ocean, & Atmospheric Sciences, Oregon State University, Corvallis, OR, USA

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### GENERAL INFORMATION

The workshop runs from Wednesday morning to Friday early afternoon, 5 – 7 April 2017. Information about the conference venue and accommodation is available on the conference website:

[www.oeschger.unibe.ch](http://www.oeschger.unibe.ch) > News and Events > **Warmer World Paleoworkshop**

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### REGISTRATION

The workshop is limited to a maximum of 60 participants. Selection of participants is made by the scientific committee based on the abstract submitted and with respect to a balance in scientific expertise, gender, nationality and a good mix of early career and senior scientists. There is no registration fee. However, participants have to generally cover their own travel costs. Coffee, lunches and a conference dinner is provided by the organizers.

Please register at

[www.oeschger.unibe.ch](http://www.oeschger.unibe.ch) > News and Events > **Warmer World Paleoworkshop > Application**

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**Deadline for abstract submission and registration: 29 January 2017**

We look forward to meeting you in Bern!

Hubertus Fischer, Martin Grosjean, Marie-France Loutre  
on behalf of the Organizing Committee

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The workshop is supported by:



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