

KEYNOTE SPEAKERS

Prof. Dr. René Laprise (Université du Québec à Montréal, CA) | Prof. Dr. Larry Hinzman (International Arctic Research Center, University of Alaska Fairbanks, USA) | Dr. Edouard Davin (Institute for Atmospheric and Climate Science, ETH Zürich, Switzerland) | Prof. Dr. Martyn Chipperfield (University of Leeds, School of Earth and Environment, UK) | Prof. Dr. Stefan Brönnimann (Oeschger Center, University Bern, Switzerland) | Prof. Dr. Mark Pelling (Department of Geography, King's College London, UK) | Prof. Dr. Helge Arz (Leibniz Institute for Baltic Sea Research Warnemünde, Germany)

SCIENTIFIC STEERING COMMITTEE

Prof. Dr. Peter Braesicke (Karlsruher Institute for Technology, Karlsruhe, Germany) | Prof. Dr. Achim Brauer (German Research Centre for Geosciences, Potsdam, Germany) | Prof. Dr. Klaus Dethloff (Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Potsdam, Germany) | Dr. Klaus Grosfeld (Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Bremerhaven, Germany) | PD. Dr. Michael Kunz (Karlsruher Institute for Technology, Karlsruhe, Germany) | Prof. Dr. Mojib Latif (GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany) | Prof. Dr. Peter Lemke (Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Bremerhaven, Germany) | Prof. Dr. Beate Ratter (University of Hamburg and Helmholtz Centre Geesthacht, Germany) | Dr. Torsten Sachs (German Research Centre for Geosciences, Potsdam, Germany) | Prof. Dr. Hans Peter Schmid (Institute of Meteorology and Climate Research – Atmospheric Environmental Research, Garmisch-Partenkirchen, Germany) | Dr. Renate Treffeisen (Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Bremerhaven, Germany) | Prof. Dr. Reimund Schwarze (Helmholtz Centre for Environmental Research, Leipzig, Germany)



CONFERENCE VENUE

The 'Umweltforum' is located in the center of Berlin near the famous Alexanderplatz. The church, which is the main part of the building, is over one hundred years old. Beautiful ceilings, galleries and the organ loft make this venue an extraordinary event location. Being equipped with eco technology and the possibility of making events carbon neutral make the 'Umweltforum' highly suitable for Green Meetings.

REGISTRATION INFORMATION

Registration for the international scientific conference (6–8 October, 2014) is required in advance to the conference. On-site registration is not possible. Online registration for the conference is open until August 30, 2014.

Abstract submission is open until May 30, 2014 (deadline)

All conference participants are required to register and pay the conference fee in advance. In the online registration form you can select: registration with or without a paper proposal.

Conference Fee in Euro:

Full fee: 150,- Euro (including lunch and social evening)
Student fee: 80,- Euro (including lunch and social evening)

A limited amount of travel grants will be available for students to attend the conference. See further details at our conference webpage!

www.reklim-conference-2014.de



INTERNATIONAL CONFERENCE
OUR CLIMATE 2014

*Regional perspectives
on a global challenge*

OUR FUTURE

6–9 OCTOBER, 2014

Umweltforum Auferstehungskirche, Berlin, Germany
Pufendorfstr. 11, 10249 Berlin

www.reklim-conference-2014.de

REKLIM
Helmholtz-Verbund
Regionale Klimaänderungen

HELMHOLTZ
ASSOCIATION

One of the biggest challenges of current climate research is to analyse and understand the regional effects of global climate change, especially to describe consequences and impacts of climate change on a socially relevant scale.

This is where the Helmholtz Climate Initiative REKLIM comes in: since October 2009 experts of the nine Helmholtz Centres of the Helmholtz Association's research field Earth and Environment are working together on ten research topics.

In cooperation with nine universities, the Helmholtz Research Centres combine their expertise in regional climate change research. Regional observations and process studies coupled with model simulations will help to improve regional and global climate models, which provide a solid basis for climate-related decision support. REKLIM contributes to the strengthening of interdisciplinary regional climate research in Germany.

Following the first funding period the Climate Initiative REKLIM is organising the international Conference

'Our Climate – Our Future, Regional perspectives on a global challenge'

taking place in Berlin, Germany from 6–9 October, 2014. The conference aims at providing a forum where scientists from all over the world can present and discuss new results from regional climate research in the context of the REKLIM research topics.

The conference will be divided into two parts:

The first part is a three-day international scientific conference from 6–8 October, 2014.

The scientific conference is followed by a German speaking public engagement day on 'Regional climate change – causes and effects' on the 9th of October, 2014 which focuses on the dialogue between scientists and decision makers from the fields of politics, administration and associations.

DURING THE CONFERENCE THE FOLLOWING EIGHT TOPICS WILL BE ADDRESSED:

I REGIONAL CLIMATE SYSTEM MODELLING

Convener: Klaus Dethloff, Hans von Storch

How does the development of the climate depend on the interaction between atmosphere-ocean-ice and land surfaces? What effects do natural and anthropogenic processes have?

II SEA LEVEL CHANGES FROM GLOBAL TO REGIONAL AND LOCAL SCALES

Convener: Peter Lemke, Klaus Grosfeld, Ingo Sasgen

How large are the mass losses of the Greenland and Antarctic ice sheets? How is sea level affected by melt water run-off, ocean warming and solid Earth deformation, and what are the coastal implications?

III ARCTIC CHANGE

Convener: Torsten Sachs, Birgit Heim

What are the effects of climate change on the Arctic ocean, sea ice and permafrost regions? What are the interactions between cryosphere, land, ocean and atmosphere? Can our understanding of those climate relevant processes at high latitudes be improved by advancing new technologies and methods?

IV THE LAND SURFACE IN THE CLIMATE SYSTEM

Convener: Hans Peter Schmid, Andreas Marx

How do climate and land use interact with ecosystems, water resources, agriculture, and forestry?

V ATMOSPHERIC COMPOSITION AND CLIMATE: INTERACTIONS FROM GLOBAL TO REGIONAL SCALES

Convener: Peter Braesicke, Martin Schultz

What are the important factors determining interactions between regional climate change and atmospheric composition? What are the potential impacts of climate change and air quality changes on human health and ecosystems?

VI EXTREME METEOROLOGICAL EVENTS AND THEIR IMPACTS IN A CHANGING CLIMATE

Convener: Michael Kunz, Frauke Feser

How and why has the severity and frequency of extreme weather events changed over past decades? What can be expected for a future climate?

VII INTEGRATED STRATEGIES FOR CLIMATE CHANGE MITIGATION AND ADAPTATION

Convener: Reimund Schwarze, Beate Ratter

What risks are related to climate variability and climate change, how can they be assessed and how can science support decision-makers in addressing these risks? How do regional and cultural factors influence the public perception of climate risks and how can climate communication be improved based on the analysis of these factors? How can mitigation and adaptation be connected in international and regional climate negotiations?

VIII RAPID CLIMATE CHANGE IN THE PAST – MECHANISMS, PROCESSES AND REGIONAL PATTERNS

Convener: Achim Brauer, Ralf Tiedemann, Gerrit Lohmann

Which mechanisms, processes and regional climate patterns intensify abrupt climate changes during interglacials and at glacial-interglacial transitions? How different are these patterns compared to the last interglacial, the Eemian, when the average temperature was about 1–2°C higher than it is now?

For more detailed information on the conference and its programme please refer to the conference website:

www.reklim-conference-2014.de

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