

HERRENHAUSEN CONFERENCE, OCTOBER 9–11, 2019

EXTREME EVENTS – BUILDING

CLIMATE RESILIENT SOCIETIES

HERRENHAUSEN PALACE, HANOVER, GERMANY

Extreme climate events, such as heatwaves, droughts and storms, have been identified as a top threat to human wellbeing by the United Nations and independent bodies such as the World Economic Forum. Hence, it would be negligent to discuss strategies to reach the Sustainable Development Goals (SDGs) without consideration of societal resilience under potential changes of climate extremes. The overall objective of the conference is to elucidate the relations between climate extremes, societal resilience, and sustainable development goals. In particular, we will identify the major obstacles for building climate resilience across regions and sectors, and identify priorities and means to address these obstacles.

PROGRAM

The following topics will be addressed in relation to climate extremes in five parallel sessions throughout the conference:

PARALLEL SESSIONS (incl. session leads)

Session 1

Challenges of Extreme Events for Resilient Infrastructures

PETRA MAHRENHOLZ
German Environment Agency, Berlin, Germany

GERRIT JASPER SCHENK
Technische Universität Darmstadt, Germany

Session 2

Extreme Events and Food Security

RUTH DELZEIT
Kiel Institute for the World Economy, Germany

ADRIANA IGNACIUK
Food and Agriculture Organization of the United Nations, Rome, Italy

ZIA MEHRABI
University of British Columbia, Vancouver, Canada

Session 3

Climate Extremes and Security

MARC EICHHORN
Federal Foreign Office, Berlin, Germany

JUDITH NORA HARDT
University of Hamburg, Germany

CHRISTOPH MAINBERGER
Federal Foreign Office, Berlin, Germany

JÜRGEN SCHEFFRAN
University of Hamburg, Germany

Session 4

Data Science for Human Wellbeing

DEBARATI GUHA SAPIR
Centre for Research on the Epidemiology of Disasters (CRED), Brussels, Belgium

MIGUEL D. MAHECHA
Max-Planck-Institute for Biogeochemistry, Jena, Germany

VIRGINIA MURRAY
Public Health England, London, United Kingdom

Session 5

Response to Compound Events

JAKOB ZSCHEISCHLER
University of Bern, Switzerland

DAVID N. BRESCH
ETH Zurich/Federal Office of Meteorology and Climatology MeteoSwiss, Zurich, Switzerland

“Extreme Events: Building Climate Resilient Societies” is part of the Herrenhausen Conference Series initiated by the Volkswagen Foundation.

There is no fee for attendance, but registration is essential. Please visit the conference website for more information.

Xplanatorium
HERRENHAUSEN

PROGRAM

TUESDAY, OCTOBER 8, 2019

6:30 p.m. Icebreaker at Central Hotel Kaiserhof

WEDNESDAY, OCTOBER 9, 2019

8:30 a.m. Registration and Coffee

9:30 a.m. Welcome & Introduction

Auditorium WILHELM KRULL
Secretary General,
Volkswagen Foundation, Germany

MARKUS REICHSTEIN
Max-Planck-Institute for
Biogeochemistry, Jena, Germany

10:00 a.m. Keynotes

Auditorium Climate extremes at 1.5°C vs. 2°C global
warming: the IPCC SR15 report
SONIA I. SENEVIRATNE
ETH Zurich, Switzerland

Climate related disasters:
direct and indirect impacts on develop-
ment and poverty

STEPHANE HALLEGATTE
Global Facility for Disaster Reduction
and Recovery (GFDRR), the World Bank,
Washington, DC, USA

10:45 a.m. Coffee Break

11:15 a.m. PARALLEL SESSIONS

Workshop Rooms Research Question I – Expected Impacts
Which impacts are expected to be
caused by extreme climate events
(incl. compound events, impacts
cascades and feedbacks) across eco-
systems, infrastructures and society?

12:45 p.m. Lunch

Ballroom

2:15 p.m. Keynotes

Auditorium Disaster insurance: What is it good for?
ILAN NOY
Victoria University of Wellington,
New Zealand

What has to be done to manage
increasing losses and damages caused
by climate change?

PETER HOEPPE
Munich Re, Germany

3:00 p.m. PARALLEL SESSIONS

Workshop Rooms Research Question I – Expected Impacts
(continued)

4:00 p.m. Coffee Break

4:30 p.m. Reporting Session 1–5 & Discussion

Auditorium Research Question I – Expected Impacts
Moderator: MARIE-LUISE BECK
German Climate Consortium, Berlin,
Germany
RAPPORTEURS SESSION 1–5

5:15 p.m. Keynotes

Auditorium Incremental versus transformative adap-
tation for coping with climate extremes
LISA SCHIPPER
University of Oxford, United Kingdom

Scaling adaptations to build urban
resilience to extreme climate events
in Africa

SHUAIB LWASA
Makerere University, Kampala,
Uganda

6:00 p.m. Two-minute Lightning Talks

Auditorium EARLY CAREER RESEARCHERS

6:30 p.m. Conference Dinner

Ballroom including Dinner Speech

PROGRAM

THURSDAY, OCTOBER 10, 2019

9:00 a.m. Introduction

9:15 a.m. PARALLEL SESSIONS

Workshop Rooms

Research Question II – Key Obstacles

What are key obstacles (e.g. financing, governance, data & system knowledge) towards societal resilience across sectors and Sustainable Development Goals (SDGs)?

10:45 a.m. *Coffee Break*

11:15 a.m. PARALLEL SESSIONS

Workshop Rooms

Research Question II – Key Obstacles
(continued)

12:15 p.m. Reporting Session 1–5 & Discussion

Auditorium

Research Question II – Key Obstacles

Moderator: MARIE-LUISE BECK
RAPPORTEURS SESSION 1–5

1:00 p.m. *Lunch*

Ballroom

2:30 p.m. PARALLEL SESSIONS

Workshop Rooms

Research Question III – Knowledge Needed

What knowledge is needed to remove these obstacles and how can research, teaching and learning support the transformation towards SDGs while facing climate extremes?

4:00 p.m. *Coffee Break*

4:30 p.m. Keynotes

Auditorium

Cultural memory for coping with and adapting to recurrent natural hazards

VIRGINIA ARACELI GARCÍA-ACOSTA
CIESAS, Center for Research and Advanced Studies in Social Anthropology, Mexico City, Mexico

Artificial Intelligence for Societal Resilience

N. N.

Microsoft Research (tbc)

5:15 p.m. Two-minute Lightning Talks

Auditorium

EARLY CAREER RESEARCHERS

6:15 p.m. **Poster Session**

with Wine and Snacks

PROGRAM

FRIDAY, OCTOBER 11, 2019

9:00 a.m. Introduction

Auditorium

9:15 a.m. **PARALLEL SESSIONS**

Workshop Rooms **Research Question III – Knowledge Needed**
(continued)
Research & Action Agenda

10:45 a.m. *Coffee Break*

11:15 a.m. **Reporting Session 1–5 & Discussion**

Auditorium **Research Question III – Knowledge Needed**
Moderator: MARIE-LUISE BECK
RAPPORTEURS SESSION 1–5

12:00 a.m. **Panel Discussion**

Auditorium *Moderator: MARIE-LUISE BECK*

1:00 p.m. *Lunch*

Ballroom

2:15 p.m. **Synthesis for Research & Action**

Auditorium **Agenda**

3:45 p.m. **Closing Remarks and Adjourn**

INTERNAL FOLLOW-UP BY ORGANIZERS

3:45 p.m. *Coffee Break*

4:30 p.m. **Wrap-up meeting for organizers and key participants for preparing press release and high-level synthesis and follow-up plans**

6:00 p.m. *End of Conference*

ORGANIZERS

MARKUS REICHSTEIN

Max-Planck-Institute for
Biogeochemistry, Jena

MOJIB LATIF

GEOMAR Helmholtz Centre for Ocean
Research, Kiel

PETRA MAHRENHOLZ

German Environment Agency, Berlin

KATRIN REHDANZ

Environmental and Resource
Economics, Kiel University

JÜRGEN SCHEFFRAN

Department of Geosciences,
University of Hamburg

GERRIT JASPER SCHENK

History of the Middle Ages,
Technische Universität Darmstadt

INSTITUTIONS

Max Planck-Institut
für Biogeochemie



Helmholtz-Zentrum für Ozeanforschung Kiel

Umwelt
Bundesamt

KomPass
Kompetenzzentrum
Klimafolgen und Anpassung

C | A | U

Kiel University
Christian-Albrechts-Universität zu Kiel



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG



TECHNISCHE
UNIVERSITÄT
DARMSTADT



VolkswagenStiftung

Xplanatorium
HERRENHAUSEN