

**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, Dessau, 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**

CHRISTOPH MAINBERGER  
Federal Foreign Office, Berlin, Germany

JÜRGEN SCHEFFRAN  
University of Hamburg, Germany

JUDITH NORA HARDT  
Centre Marc Bloch e.V. (HU Berlin) and University of Hamburg, Germany

#### Session 4

##### **Data Science for Human Wellbeing**

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

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

#### 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 by  
PHILIP WARD, VU University Amster-  
dam, The Netherlands

# 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

**Human Artificial Intelligence for Societal Resilience**

EMMANUEL LETOUZÉ  
Data-Pop Alliance, New York, USA

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

Auditorium EARLY CAREER RESEARCHERS

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

with Wine and Snacks

8:00 p.m. **Public Lecture** (in German Language)  
**Klimawandel: Kriegen wir die Kurve?**

MOJIB LATIF  
GEOMAR Helmholtz Centre for Ocean Research, Kiel

# 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

12:30 p.m. **Panel Discussion**

Auditorium *Moderator: MARIE-LUISE BECK*

1:30 p.m. *Lunch*

Ballroom

3:00 p.m. **Synthesis for Research & Action Agenda**

Auditorium

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, Dessau

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  
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