

# POTSDAM SUMMER SCHOOL 2016



05.09.–14.09.2016  
DEALING WITH CLIMATE  
CHANGE IMPACTS

Programme

> [potsdam-summer-school.org](http://potsdam-summer-school.org)

# Potsdam Summer School 2016

## Dealing with Climate Change Impacts

Avoiding the unmanageable, managing the unavoidable – even with ambitious climate mitigation, the impacts of climate change will be felt in this century. They have been programmed into the natural system by our greenhouse gas emissions: carbon dioxide remains in the atmosphere for hundreds and even thousands of years. From global sea-level rise to extreme events like floods or droughts, the third Potsdam Summer School from 5 – 14 September 2016 will focus on long-term climate change impacts and the challenge of dealing with them.

Any kind of assessment of long-term hazards is based on knowledge of the natural processes within the climate system, quantification by computer models and scenario analysis and must be supplemented by a risk assessment to evaluate the impacts in respect of potential mitigation measures. Participants at the 2016 Potsdam Summer School will learn to assess long-term hazards and conduct risk assessments to evaluate impacts and identify potential mitigation measures for impacts ranging from Arctic warming over sea-level rise to Amazon dieback. An intense ten-day programme will address four major topics.

The issues span a multitude of natural and social science disciplines and invite stakeholders from the public and private sector to get involved. The programme will comprise lectures, various discussion formats, and interactive project activities, including hands-on demonstrations, workshops, and group projects.

DISCOVERING PLANETARY BOUNDARIES	IDENTIFYING AND FORECASTING THE IMPACTS	ASSESSING THE IMPACTS	FOSTERING THE DIALOGUE WITH STAKE-HOLDERS AND THE PUBLIC
<ul style="list-style-type: none"><li>• The safe operating space for humanity</li><li>• Where do we stand?</li><li>• Recent events</li></ul>	<ul style="list-style-type: none"><li>• Extreme events</li><li>• Sea level change</li><li>• Migration</li><li>• Food security</li></ul>	<ul style="list-style-type: none"><li>• Mitigation concepts</li><li>• Adaption strategies</li><li>• Governance and fairness</li></ul>	<ul style="list-style-type: none"><li>• Interview training</li><li>• How to write a blogpost</li><li>• Social media</li></ul>

With its overarching theme – “*Dealing with Climate Change Impacts*” – this Summer School will continue the transdisciplinary and interactive event series that has been held annually in Potsdam, Germany since 2014. The aim is to bring together talented early-career scientists and young professionals from the private sector, governmental agencies and non-governmental organisations in many different parts of the world to discuss frontier research questions on future sustainable development. In this context, the Potsdam Summer School provides a unique opportunity for all participants to foster international co-operation and an exchange of ideas.

# 1st WEEK: 05.09. – 11.09.2016

## MON 05.09.

Location: IASS (Main Building) & PIK A56

Moderation: *Ingo Bräuer (PIK)*

09:00-09:30	Setting the Scene <i>(at IASS)</i> <i>Mark Lawrence (IASS &amp; University of Potsdam)</i>
09:30-10:30	<b>Transfer from IASS to PIK by bus shuttle</b>
10:30-12:00	The Climate Challenge after Paris: Humanity at the Crossroads <i>(at PIK)</i> <i>Hans Joachim Schellnhuber (PIK)</i>
12:00-13:00	Short round of Introduction
13:00-14:00	Lunch
<b>PARTICIPANT'S PRESENTATION</b>	
14:00-15:30	Participants present their Individual Profiles
15:30-16:00	Coffee Break
16:00-17:30	Participants present their Individual Profiles
17:30-18:00	Guided Walk at Telegrafenberg <i>Diedrich Fritzsche (AWI)</i>
19:00-21:00	Buffet Dinner at IASS



# TUE 06.09.

Location: PIK A56

*Moderation: Ingo Bräuer (PIK)*

## PLANETARY BOUNDARIES: SETTING THE FRAME

09:00-09:10	Introduction to PIK <i>Ingo Bräuer</i>
09:10-10:30	The Principle of Planetary Boundaries <i>R. Andreas Kraemer, IASS and Duke University</i>
10:30-11:00	Coffee Break
11:00-12:00	Earth as a Complex System <i>Wolfgang Lucht (PIK)</i>
12:00-13:00	Guided Tour PIK, <i>Mariia Bilogub</i>
13:00-14:00	Lunch
14:00-15:30	Teleconnections in the Global Climate System <i>Niklas Boers (PIK)</i>
15:30-16:00	Coffee Break
16:00-17:00	The Known versus the Unknown <i>Armin Haas (IASS)</i>
17:00-18:00	Atmosphere Ocean Interactions from Momentum, Mass and Heat Exchange <i>Jan Saynisch (GFZ)</i>
19:00-21:00	Buffet Dinner at IASS

# WED 07.09.

Location: PIK A56

*Moderation: Katy Unger-Shayesteh (GFZ)*

## ASSESSING THE IMPACTS: FOCUS ASIA

09:00-09:10	Introduction to GFZ
09:15-10:00	The Impact of Climate Change on Water Resources in Central Asian River Basins <i>Sergiy Vorogushyn (GFZ)</i>
10:00-10:45	Economics of Climate Change – Adaptation Options for Irrigated Agriculture in Central Asia <i>Ihtiyor Bobojonov (IAMO)</i>
10:45-11:00	Coffee Break
11:00-12:00	Dendroclimatology – What Tree Rings tell us about Climate Variability during the last 2000 Years <i>Gerhard Helle (GFZ)</i>
12:00-13:00	Guided Tour GFZ, <i>Gerhard Helle</i>
13:00-14:00	Lunch

## COMMUNICATING CLIMATE CHANGE IMPACTS

14:00-15:00	Introduction PIK Press Team
15:00-15:30	Alarming Figures <i>Birgit Schneider (Uni Potsdam)</i>
15:30-16:00	Coffee Break
16:00-17:30	Workshop with PIK Press Team <b>Group I:</b> Interview Training <b>Group II:</b> How to write a Blog Post
18:30-21:00	Evening Event with <i>Patrizia Nanz</i> at WIS/ Bildungsforum Potsdam

# THU 08.09.

Location: PIK A56

*Moderation: Bernhard Diekmann (AWI)*

## EXTREME EVENTS

09:00-09:10	Introduction to AWI
09:10-10:00	Planetary Waves <i>Dim Coumou (PIK)</i>
10:00-10:30	Coffee Break
10:30-12:00	What are the Drivers of Increasing Natural Castastrophe Risks <i>Peter Hoeppe (MunichRe)</i>
12:00-13:00	Guided Tour AWI, <i>Gerhard Helle</i>
13:00-14:00	Lunch

## THE REGIONAL VS. GLOBAL PERSPECTIVE

14:00-15:30	Global Feedbacks between Climate and Arctic Permafrost <i>Guido Grosse (AWI)</i>
15:30-16:00	Coffee Break

## REGIONAL CONSEQUENCES

16:00-17:30	Arctic Climate Change – From Local to Global Effects <i>Marion Maturilli, Annette Rinke, Doerthe Handorf (AWI)</i>
18:00-20:30	Buffet Dinner at IASS

## FRI 09.09.

Location: Uni Potsdam – Campus Golm (Room 207)

*Moderation: Andreas Bergner (Uni Potsdam)*

### FOOD SECURITY AND MIGRATION

09:00-09:10	Introduction to University of Potsdam <i>Manfred Strecker</i>
09:10-10:10	How to Model Climate Impacts on Global Food Security <i>Hermann Lotze-Campen (PIK)</i>
10:10-10:40	Coffee Break

### LAND MANAGEMENT AND SOIL

10:40-12:00	Estimating Changes in Flood Risks and Benefits of Non-Structural Adaptation Strategies <i>Annegret Thieken (Uni Potsdam)</i>
12:00-13:00	Guided Tour Uni Potsdam
13:00-14:00	Lunch
14:00-15:30	Climate and Migration: Past — Present — Future <i>Franz Mauelshagen (IASS)</i>
15:30-16:00	Coffee Break

### COMMUNICATING CLIMATE CHANGE IMPACTS

16:00-17:30	Workshop: Tools of Stakeholder Communications <i>Volker Rachold (IASC)</i>
	Evening at own Leisure

## SAT 10.09.

Weekend

Half Day Bike Trip or Guided Tour in Potsdam > *Information on page 11*

## SUN 11.09.

Weekend

Full Day at own Leisure

## 2nd WEEK: 12.09. – 14.09.2016

### MON 12.09.

Location: IASS

*Moderation: Tom Bruhn (IASS)*

#### GOVERNANCE & FAIRNESS: COP21 AND THE WAY AHEAD

09:00-10:00	Introduction to IASS & Guided Tour <i>Katja Carson (IASS)</i>
10:00-11:00	Global Climate Governance After COP21 <i>Birgit Lode (IASS)</i>
11:00-11:30	Coffee Break
11:30-12:30	European Climate and Energy Policies & Perspectives <i>Sabrina Schulz (E3G)</i>
12:30-13:30	Governance & Preparedness <i>Harald Fuhr (Uni Potsdam)</i>
13:30-14:30	Lunch
14:30-15:30	Basic IPCC: Working Group III in a Nutshell <i>Péter Agoston (Mercator Research Institute)</i>
15:30-16:30	National Commitments towards meeting Paris Climate Goals <i>Louise Jeffrey (PIK)</i>
16:30-17:00	Coffee Break
<b>COMMUNICATING CLIMATE CHANGE IMPACTS</b>	
17:00-18:00	Multilateral Climate Negotiations <i>Sebastian Oberthuer (Institute for European Studies/Vrije Universiteit Brussels)</i>
18:30-20:30	Buffet Dinner at IASS



# TUE 13.09.

Location: IASS

*Moderation: Tom Bruhn (IASS)*

## ADAPTATION STRATEGIES & MITIGATION CONCEPTS

09:00-10:00	Adaptation Strategies/ Supply Chains <i>Anders Levermann (PIK)</i>
10:00-11:00	Water-Energy-Climate Nexus – The Brazilian Case <i>Sybillie Roehrkasten (IASS)</i>
11:00-11:30	Coffee Break
11:30-12:30	Cultural Differences in Climate Adaptation at European Coastal Areas <i>Thorsten Heimann (Leibniz Institute for Research on Society and Space)</i>
12:30-13:30	Urbanisation: Driver of Risk or Opportunity for Climate Resilience? <i>Matthias Garschagen, United Nations University, Bonn</i>
13:30-14:30	Lunch

## WORKSHOP ADAPTATION STRATEGIES

14:30-16:00	<p><b>Group I:</b> Comprehensive Climate Risk Management – Exemplified by a Small Pacific Island State <i>Harald Spahn (Consultant)</i></p> <p><b>Group II:</b> Vulnerability-based Adaptation Strategies in South America <i>Ariane Walz (Uni Potsdam) &amp; Kirsten Thonicke (PIK)</i></p>
16:00-16:30	Coffee Break
16:30-18:00	<p><b>Group I:</b> <i>H. Spahn (Freelance Consultant)</i></p> <p><b>Group II:</b> <i>Ariane Walz (Uni Potsdam) &amp; Kirsten Thonicke (PIK)</i></p>

Evening at own Leisure

# WED 14.09.

Location: IASS

*Moderation: Tom Bruhn (IASS)*

## IMPLICATIONS FOR FURTHER ACTION IN RESEARCH & GOVERNANCE

09:00-10:00	Further Action/Science & Research <i>Wolfgang Lucht (PIK)</i>
10:00-11:00	Wicked Problems & the Science-Policy Interface <i>R. Andreas Kraemer (IASS &amp; Duke University)</i>
11:00-11:30	Coffee Break
11:30-12:30	Narration for Implementation <i>Bernd Hezel (Climate Media Factory)</i>
12:30-14:00	Lunch
<b>CONCLUSION</b>	
14:00-15:00	<i>Ortwin Renn (IASS)</i>
15:00-16:00	Wrap Up <i>Mark Lawrence (IASS) &amp; Organising Partners</i>
16:00-16:30	Farewell Coffee
18:30-22:30	Farewell Dinner & Party



## CONTACT

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## FOR INQUIRIES AND EMERGENCIES

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# Information for the Weekend SAT 10.09.

## TOUR I - HALF DAY BIKE TRIP

*“From the Blue Angel to the Bridge of Spies”*

Guided Bike Tour alongside famous historic film sets in Potsdam.

Approx. 12 km 2,5 hours

**Start and End: Waveboard Boardinghouse**

## TOUR II - GUIDED TOUR NEW PALACE

### *New Palace*

In strong contrast to the intimate and rather modest *Sanssouci* Palace the large palace complex served official, representational needs. Grand banquet halls, splendid galleries and regally designed suites, not to mention Sanssouci's Baroque palace theater in the southern wing, await visitors in its interior. Select works of 18th century art and decorative arts can be viewed at the palace in their original contexts.

The palace was mostly used as guest apartments and for celebrations. The recently restored Lower Royal Suite, with its Braided Room, Concert Room and Oval Cabinet, presents one of Europe's most luxurious interior décors.

# POTSDAM SUMMER SCHOOL 2016

Organising Partners:



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