

2 4 – 2 6 J U N E

A CROSSING BOUNDARIES  
IN SCIENCE CONFERENCE



T H E  
**ANTHROPOCENE**

Addressing its challenges  
for humanity – crossing the  
boundaries of science


CO-ORGANIZED BY THE  
GERMAN NATIONAL ACADEMY  
OF SCIENCES LEOPOLDINA AND  
THE MAX PLANCK INSTITUTE OF  
GEOANTHROPOLOGY IN JENA.



**Leopoldina**  
Nationale Akademie  
der Wissenschaften

**MAX PLANCK INSTITUTE**  
OF GEOANTHROPOLOGY





The rapid and intense fashion, in which humanity is changing the very foundations on which our existence and well-being on this planet are resting, is starting to attain a magnitude that, according to the opinion of many, threatens to put the future of humanity on Earth in peril.

In order to secure a livable habitat for us on our planet we have to rethink how humans gain understanding about these global changes, make decisions and act on them. These questions have to be dealt with adequately and rapidly in order to successfully meet the challenge of securing our sustainable future on Earth.

This is a multifaceted challenge, involving scientific, political, social, economic, psychological and ethical aspects. We will address this comprehensive challenge with the present conference in the „Crossing Boundaries in Science“ series. This event is organized by Leopoldina, the German National Academy of Sciences. Previous meetings have addressed the themes „Modeling Nature and Society - Can We Control the World?“ (Weimar, 2016) and The mystery of risks -How can science help reconcile perception and assessment?“ (Potsdam, 2019).

The event will be hosted by the Max Planck Institute of Geoanthropology in Jena and will mark the new direction of the institute in addressing issues of the Anthropocene. The meeting will feature three days of lectures and panels.

## VENUE



**Dorint Hotel**  
Carl-Zeiss-Platz 4  
07743 Jena

## DAY 1 – 24 JUNE



### What do we know and what knowledge is missing?

This half day will start with a talk introducing the theme of the meeting. It will then feature talks that summarize the extent and (actual and principal) limitations of our present knowledge of the Anthropocene that has been acquired by scientific research in the fields of climate research, Earth system sciences, geology, life sciences and history as well as a talk on the methodical aspects of dealing with complex systems like the Earth System.

All talks on day 1 discuss phenomenological issues of the Anthropocene, are directed at the implications for human action and cover the entire span of mitigation, adaption and correction.



**Moderator Day 1**  
12:30-16:15  
Thomas Lengauer



**Moderator Day 1**  
16:30-19:00  
Antje Boetius

### Day 1 Program

13:00	Welcome	Gerald Haug, Patrick Cramer, Jürgen Renn & Thomas Lengauer
13:15		Ricarda Winkelmann
14:00		Francine McCarthy
14:45		Jochem Marotzke
15:30		TBC
16:15	Break	
16:30		Ana Bastos
17:15		Geoffrey West
18:30	Break	
19:00	Evening Lecture	Andrea Wulf
20:30	Dinner	

## DAY 2 – 25 JUNE



### Who are the key actors addressing the challenges of the Anthropocene?

The objective of this day is to identify key actors in influencing the complex dynamics of the Anthropocene and move beyond presenting history and the current state to open up new perspectives for action. Insights into the interacting levels of agency (from individuals to global institutions) are to be gained from the natural and social sciences, from the humanities, and in particular, from the fields of local and global governance, economics, sociology, communication, cognition and psychology.



**Moderator Day 2 Morning:**  
Jürgen Renn



**Moderator Day 2 Afternoon:**  
Ricarda Winkelmann

#### Day 2 Program *(preliminary program)*

09:15		Dipesh Chakrabarty (virtual)
10:00		Giulia Rispoli
10:45	Break	
11:00		Mark Williams
11:45		Kathrin Böhning-Gaese
12:30		Damaris Zurell
13:15	Lunch	
14:15		Ilona Otto
15:00		Leonie Wenz
15:45	Break	
16:00		TBC
16:45		Ursula Rao
17:30		Philipp Staab
18:15		Manjana Milkoreit
19:00	BBQ at MPI-GEA	Presentations

## DAY 3 – 26 JUNE



### What are the main leverage points?

On this day scholars, deciders, and stakeholders come together in order to identify concrete next steps for science and society from what has been discussed in the previous days. Three panels will address methods, practices, and consequences, respectively.



**Panel I Moderator:**  
TBC



**Panel II Moderator:**  
Fritz Habekuß

### Day 3 Program *(preliminary program)*

10:00	<b>Greeting</b>	Minister Wolfgang Tiefensee
10:15 – 11:45	<b>Panel I: Methods &amp; Practices</b>	Onno Oncken, Ana Sequeira, Franz Mauelshagen, Dirk Messner, Tobias Bonhoeffer (TBC), Bernd Scherer, Xuemei Bai, Hartmut Rosa
12:15	<b>Panel II: Consequences</b>	Jürgen Renn, Ricarda Winkelmann, Thomas Lengauer, Manfred Laubichler, Gerald Haug, Robert Schlögl