

POTSDAM SUMMER SCHOOL 2018

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10.09.–19.09.2018
THE SKIN OF OUR PLANET –
THE EARTH SURFACE SYSTEM

Programme

> potsdam-summer-school.org

Potsdam Summer School 2018

THE SKIN OF OUR PLANET – THE EARTH SURFACE SYSTEM

Modern pluralistic societies face many challenges. In 2018 we will explore the terrestrial earth surface system which is driven by geological, biological and climatic forces. They form a complex system of closely coupled processes and feedbacks that are not yet sufficiently understood. Knowledge of these interactions is essential since the earth's surface is the foundation for all human activity. Its dynamics have an impact on all facets of life, habitability and sustainability.

The earth's surface system plays a central role in many of the 17 Sustainable Development Goals (SDGs) which were set by the United Nations and 193 of its member states in 2015. Just to mention a few: When talking about poverty (SDG 1), food security (SDG 2), landscape conservation issues in relation to well-being (SDG 3), clean water (SDG 6), clean energy through biofuels (SDG 7), sustainable cities and communities (SDG 11), responsible consumption (SDG 12), climate mitigation (SDG 13), oceans (SDG 14) and land degradation (SDG 15).

THE FIFTH POTSDAM SUMMER SCHOOL WILL ADDRESS THESE CENTRAL QUESTIONS:

- Why is the earth surface system dynamic?
- What are the triggers for dynamic processes?
- What are possible societal adaptation strategies for sustainable land management?

The Potsdam Summer School provides a unique opportunity for all participants to foster international cooperation and an interdisciplinary exchange of ideas. These issues span a multitude of natural and social science disciplines and invite stakeholders from the public and private sector to get involved.

THE FOLLOWING TOPICS WILL STRUCTURE THE DISCUSSIONS:

- Drivers, Triggers, and Forces for Dynamic Changes
- The Role, Function, and Traits of the Earth Surface for the Evolution of Life and for the Human Habitat
- Land Management to feed the Earth
- Different Approaches in Land Management
- The Role of the Oceans in the Earth Surface System
- Earth Surface System and Climate Impact
- How the Earth Surface has been shaped in the Anthropocene

EXPERTS, STAKEHOLDERS, AND GUEST LECTURERS FROM HIGH LEVEL NATIONAL AND INTERNATIONAL INSTITUTES AND ORGANISATIONS WILL CONTRIBUTE KNOWLEDGE AND INSIGHTS TO THE SUMMER SCHOOL PROGRAMME

1st WEEK: 10.09. – 14.09.2018

VENUE IASS: MON 10. SEP

DAY 1 · INTRODUCTION

09:00–09:30	Welcome to the Potsdam Summer School 2018 <i>Patrizia Nanz (IASS)</i>
09:30–10:30	<i>The Anthropocene Concept as a Provocation, Challenge and Opportunity: Rethinking Environment and Society, Disciplines, and Temporalities Part I</i> Helmuth Trischler (Deutsches Museum)
10:30–11:00	Coffee Break
11:00–12:30	<i>The Anthropocene Concept as a Provocation, Challenge and Opportunity: Rethinking Environment and Society, Disciplines, and Temporalities Part II</i> Helmuth Trischler (Deutsches Museum)
12:30–14:00	Lunch Break
14:00–16:00	Participant Introduction & Interaction <i>moderated by Tom Bruhn (IASS)</i>
16:00–16:30	Coffee Break
16:30–18:00	Participant Introduction & Interaction <i>moderated by Tom Bruhn (IASS)</i>
18:30–20:30	Buffet Dinner at IASS Roof Top Terrace



VENUE IASS: TUE 11. SEP

DAY 2 · BENEATH THE SURFACE

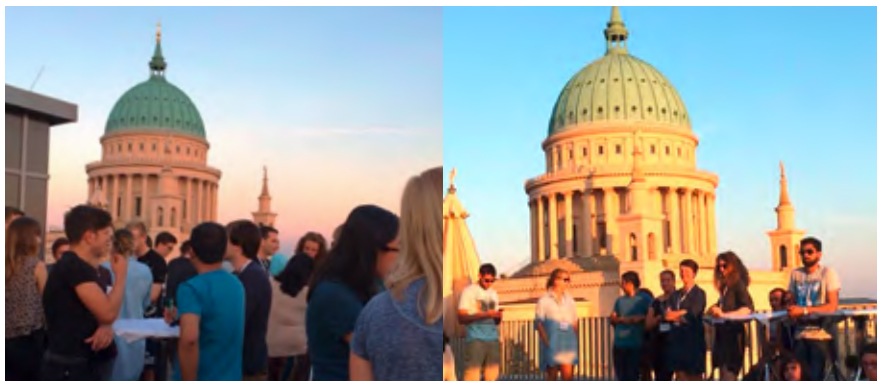
09:00–10:30	Drivers, Triggers and Forces for Dynamic Change – How Extreme Events from within alter the Surface <i>Niels Hovius (GFZ)</i>
10:30–11:00	Coffee Break
11:00–12:30	Tectonics, Climate and the Co-Evolution of Life and Landscapes <i>Jean Braun (GFZ)</i>
12:30–14:00	Lunch Break
14:00–16:00	Are we all Stakeholders? Who knows what and who acts how? <i>Armin Hass & Tom Bruhn (IASS)</i>
16:00–16:30	Coffee Break
16:30–18:00	Are we all Stakeholders? Who knows what and who acts how? <i>Armin Hass & Tom Bruhn (IASS)</i>
18:30–20:30	Dinner at IASS Roof Top Terrace



VENUE IASS: WED 12. SEP

DAY 3 · AT THE SURFACE

09:00–10:30	The Critical Zone – Earth’s Outer Skin as Large Reactor <i>Friedhelm von Blanckenburg (GFZ)</i>
10:30–11:00	Coffee Break
11:00–12:30	The Role of the Earth Surface for the Evolution of Species <i>Johannes Müller (Museum für Naturkunde)</i>
12:30–13:30	Lunch Break
13:30–15:00	Tectonics, Climate and Human Evolution in Eastern Africa <i>Martin Trauth (University of Potsdam)</i>
15:00–15:30	Coffee Break
15:30–17:00	Science Communications Strategies – Key Note <i>Lee Berger (University of the Witwatersrand)</i> Workshop <i>Simon Schneider (University of Potsdam)</i>
17:30–20:30	Joint Evening Event with Highschool Students from Potsdam



VENUE IASS: THU 13. SEP

DAY 4 · AT THE SURFACE

09:00–10:30	Cultural Landscapes and Ecosystem Services: An Environmental Anthropology Perspective <i>Christian Reichel (FU Berlin)</i>
10:30–11:00	Coffee Break
11:00–12:30	The 2030 Agenda and the Role of Science – the German Science Platform Sustainability <i>Falk Schmidt (IASS)</i>
12:30–14:00	Lunch Break
14:00–15:30	Participants' Workshop · Part I <i>facilitated by Tom Bruhn (IASS)</i>
15:30–16:00	Coffee Break
16:00–18:00	Participants' Workshop · Part 2 <i>facilitated by Tom Bruhn (IASS)</i>
18:30–20.30	Buffet Dinner at IASS Roof Top Terrace



VENUE UNI POTSDAM CAMPUS GOLM: FRI 14. SEP

DAY 5 · LAND MANAGEMENT

09:00–10:30	Sustainable Land Use Future <i>Hermann Lotze-Campen & Alexander Popp (PIK)</i>
10:30–11:00	Coffee Break
11:00–12:30	Food Security and Land Grabbing: Challenges for Managing the Future of Land · Part I <i>Ira Matuschke (IASS)</i>
12:30–14:00	Lunch Break
14:00–15:30	Governance of Ecosystem Services and Biodiversity <i>Lasse Loft (ZALF)</i>
15:30–16:00	Coffee to Go
	Evening at own Leisure

SAT 15. SEP

DAY 6 · EXCURSION TO UNESCO SPREEWALD BIOSPHERE RESERVE

08:30–19:00	German Approaches to Sustainable Land Management > <i>Information on page 11</i>
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2nd WEEK: 17. Sep–19. Sep 2018

VENUE EINSTEIN CAMPUS: MON 17. SEP	
DAY 8 · THE ROLE OF THE ARCTIC	
09:00–09:30	Wrap up of Week I
09:30–11:00	Arctic Climate: The changing Arctic in Times of Climate Change <i>Bernhard Diekmann (AWI)</i>
11:00–11:30	Coffee Break
11:30–13:00	The Fate of Arctic Permafrost Landscapes under a Warming Climate <i>Moritz Langer (AWI)</i>
13:00–14:00	Lunch Break
14:00–15:00	Conservation and Sustainable Use of Marine Biodiversity in the High Seas <i>Carole Durussel (IASS)</i>
15:00–16:00	Arctic Quiz <i>Kathrin Stephen (IASS)</i>
16:00–16:30	Coffee Break
16:30–18:00	Food Security and Land Grabbing: Challenges for Managing the Future of Land · Part II <i>Ariane Götz (IASS)</i>
18:30–20:30	Buffet Dinner at IASS Roof Top Terrace

VENUE IASS: TUE 18. SEP

DAY 9 · ABOVE THE SURFACE

09:00–10:30	The Long Reach of Cities: Reducing Urban Carbon Footprints <i>Peter-Paul Pichler (PIK)</i>
10:30–11:00	Coffee Break
11:00–12:30	Towards a Zero-Emissions Economy: Implications for Energy Systems and Policy <i>Gunnar Luderer & Kai Lessmann (PIK)</i>
12:30–14:00	Lunch Break
14:00–16:00	Participants' Workshop <i>facilitated by Daniel Oppold (IASS)</i>
16:00–16:30	Coffee Break
16:30–18:00	Interactive Lecture on Climate Engineering <i>Mark Lawrence (IASS)</i>
	Evening at own Leisure



VENUE IASS: WED 19. SEP

DAY 10 · FROM THE SURFACE

09:00–10:30	The Anthropocene Revisited – Conceptual Levels, New Narratives and Future Pathways <i>Reinhold Leinfelder/FU Berlin</i>
10:30–11:00	Coffee Break
11:00–12:30	Landscape Management – from Global to Local <i>Ariane Walz, Torsten Lipp (University of Potsdam)</i>
12:30–13:30	Lunch Break
13:30–15:30	Workshop and Discussion on Planetary Boundaries <i>Ilona Otto & Constanze Werner (PIK), Frederic Hanusch (IASS), Maik Heistermann (University of Potsdam)</i>
15:30–16:00	Coffee Break
16:00–18:00	Participants' Presentations and Wrap Up
19:00–late	Farewell Dinner at IASS Roof Top Terrace



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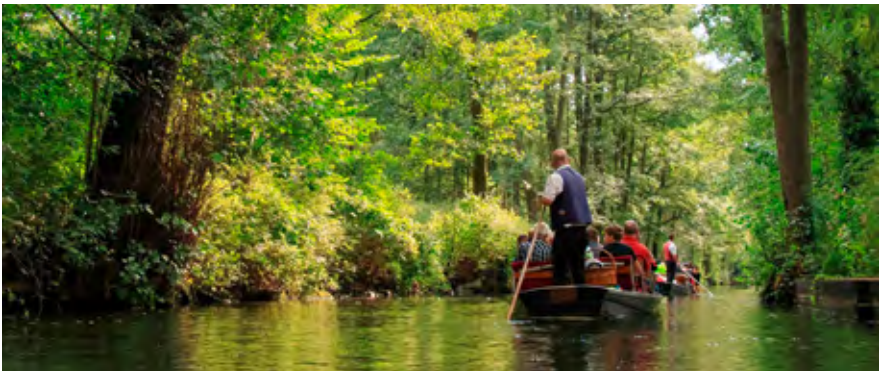
Excursion to Biosphere Reserve Spreewald on Sat Sep 15

PROGRAMME:

08:30	Start at about 08:30 from Potsdam main station
11:00	Presentation on Sustainable Land Management
13:00	Light Lunch
14:00	2-hour Boat Trip
16:30	Departure
19:00	Return to Potsdam. Train tickets can also be used to spent the evening in Berlin and return later

UNESCO Spreewald Biosphere Reserve

There are currently 15 biosphere reserves in Germany. One of them is the Spreewald Biosphere Reserve which was officially recognised by UNESCO in 1991. This is the name given to cultivated landscapes which deserve special protection due to their unique flora and fauna, and which help to preserve the ecosystems and genetic diversity. The Spreewald Biosphere Reserve is situated around 100 km south-east of Berlin in the State of Brandenburg and it encompasses an area of about 47,500 hectares. Special features of the region include a delicate tracery of streams totalling 1,500 kilometres in length. The tributaries so typical of the Spreewald were created during the last Ice Age and now they offer 5,000 species of animals and plants a protected habitat - among them rare types such as fire-bellied toads, sea eagles, green hawks and otters. But also the alder groves and the vast expanse of wetlands and marshes are home to many rare species of plants such as sundew, wild rosemary, cranberries and cotton grass.



POTSDAM SUMMER SCHOOL 2018

Organising Partners:



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