

## Environmental Physics Division Fachverband Umweltphysik (UP)

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## Overview of Invited Talks and Sessions

(Lecture hall MER/0002; Poster P1)

### Invited Talks

UP 2.4	Tue	10:15–10:45	MER/0002	<b>Klimakommunikation in der Schule? Mehr als nur darüber reden!</b> — ●MICHAEL SACH
UP 3.1	Tue	11:15–11:45	MER/0002	<b>Supporting the monitoring and tracking of carbon dioxide and methane emissions with satellites</b> — ●DOMINIK BRUNNER, GERRIT KUHLMANN, YASJKA MEIJER
UP 5.1	Tue	14:00–14:30	MER/0002	<b>A path to seamless modelling of the convective atmospheric boundary layer</b> — ●MIRJANA SAKRADZIJA

### Discussion on Sustainability on Monday during Lunch Break

PSV I	Mon	13:00–13:45	HSZ/AUDI	<b>Sustainability! And now? – Opportunities for young researchers</b> — ●ROXANA SCHARPEGGE, HIROKI SAYAMA, THOMAS SCHUBATZKY, BIRTE HÖCKER, UWE RIEDEL, JOHN PLANE, PAULEO NIMTZ, STEFANIE FALK
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### Invited Talks of the joint Symposium The Sustainability Challenge: A Decade of Transformation (SYSC)

See SYSC for the full program of the symposium.

SYSC 1.1	Mon	15:00–15:30	HSZ/AUDI	<b>Open-Endedness and Community-Based Approaches to Sustainability Challenges</b> — ●HIROKI SAYAMA
SYSC 1.2	Mon	15:30–16:00	HSZ/AUDI	<b>Education as a Social Tipping Element: Evidence from Climate and Physics Education Research</b> — ●THOMAS SCHUBATZKY
SYSC 1.3	Mon	16:00–16:30	HSZ/AUDI	<b>Mechanistic and Material Perspectives on Enzymatic Hydrolysis of Semicrystalline Polyesters</b> — ●BIRTE HÖCKER
SYSC 1.4	Mon	16:45–17:15	HSZ/AUDI	<b>Decarbonization Options for Industry</b> — ●UWE RIEDEL
SYSC 1.5	Mon	17:15–17:45	HSZ/AUDI	<b>Impacts of Cosmic Dust and Space Debris in the Terrestrial Atmosphere</b> — ●JOHN PLANE

### Invited Talks of the Symposium Tipping Points in Socio-Economic and Climate Systems (SYTP)

See SYTP for the full program of the symposium.

SYTP 1.1	Thu	15:00–15:30	HSZ/AUDI	<b>Social Tipping in Heterogeneous and Polarized Populations</b> — ●SARA CONSTANTINO, SONKE EHRET, ELKE WEBER, SONJA VOGT, CHARLES EFFERSON
SYTP 1.2	Thu	15:30–16:00	HSZ/AUDI	<b>Tipping points and regime shifts in coupled social-climate systems</b> — ●CHRIS BAUCH
SYTP 1.3	Thu	16:00–16:30	HSZ/AUDI	<b>How to tune Earth system models toward tipping?</b> — ●SEBASTIAN BATHIANY, NIKLAS BOERS

SYTP 1.4	Thu	16:45–17:15	HSZ/AUDI	<b>Algorithmic amplification and contextual sensitivity in political information exposure</b> — IRIS DAMIÃO, ANA VRANIC, PAULO ALMEIDA, LÍLIA PERFEITO, ●JOANA GONÇALVES DE SÁ
SYTP 1.5	Thu	17:15–17:45	HSZ/AUDI	<b>The complex interplay between democracy and platform power</b> — ●PHILIPP LORENZ-SPREEN

## Sessions

UP 1.1–1.4	Mon	9:30–10:30	MER/0002	<b>Sustainability: Challenges and Solutions</b> (joint session UP/CPP/SOE)
UP 2.1–2.4	Tue	9:30–10:45	MER/0002	<b>Climate Communication</b>
UP 3.1–3.5	Tue	11:15–12:45	MER/0002	<b>Air Quality, Exposure and Atmospheric Dynamics</b>
UP 4	Tue	13:00–13:45	MER/0002	<b>Members' Assembly</b>
UP 5.1–5.5	Tue	14:00–15:30	MER/0002	<b>Modelling and Prediction Across Scales</b>
UP 6.1–6.6	Wed	9:30–11:00	MER/0002	<b>Upper Atmosphere, Polar Chemistry and Volcanic Aerosols</b>
UP 7.1–7.5	Wed	11:15–12:30	MER/0002	<b>Aquatic Systems: Limnology, Natural Waters, Wetlands and Soilmoisture</b>
UP 8.1–8.6	Wed	15:00–17:00	P1	<b>Poster</b>

## Members' Assembly of the Environmental Physics Division

Tuesday 13:00–13:45 MER/0002

- Annual Report
- Upcoming Conferences and Events
- Awards and Appointments
- Miscellaneous