

Environmental Physics Division Fachverband Umweltphysik (UP)

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Overview of Invited Talks and Sessions

(Lecture hall ELP 6: HS 4; Poster ELP 6: Foyer)

Plenary Talk of the Environmental Physics Division

PV I Mon 9:00–9:45 ELP 6: HS 3+4 **The role of the North Atlantic Ocean for European Climate —**
•JOHANNA BAEHR

Invited Talks

UP 1.1 Mon 11:00–11:30 ELP 6: HS 4 **Atmospheric impact of energetic particle precipitation from the lower thermosphere to the surface —** •MIRIAM SINNHUBER

UP 2.2 Mon 16:45–17:15 ELP 6: HS 4 **Increasing water limitation of global ecosystems in a changing climate —** •RENE ORTH, JASPER DENISSEN, WANTONG LI, SUNGMIN O

UP 5.1 Wed 11:00–11:30 ELP 6: HS 4 **Melting from below: An abrupt transition in Antarctic sea ice-ocean system —** •ALEXANDER HAUMANN, ET AL.

Invited Talks of the joint Symposium How to Cope with Apocalyptic Narratives? (SYAN)

See SYAN for the full program of the symposium.

SYAN 1.1 Mon 14:00–14:40 ELP 6: HS 4 **The Apocalyptic Moment Is Over - And It Won't Come Back Anytime Soon —** •FRANK UEKOETTER

SYAN 1.2 Mon 14:40–15:20 ELP 6: HS 4 **Shaping Cold War Futures through the Nuclear Winter Study: Narratives, Imaginaries and Legitimacy —** •EGLE RINDZEVICIUTE

SYAN 1.3 Mon 15:20–16:00 ELP 6: HS 4 **The Role of Storytelling in Climate Communication —** •DENISE MÜLLER-DUM

Invited Talks of the joint Symposium Lasers and Photonic Technologies for Environmental Challenges (SYEC)

See SYEC for the full program of the symposium.

SYEC 1.1 Tue 11:10–11:40 ELP 6: HS 1 **Nanostructured optical waveguides inside YAG crystals as a crucial step towards the development of microlasers for advanced sensing applications —** •OMAR DE VARONA, FRANZETTE PAZ-BUCLATIN, PAUL SANTOS, PABLO MOLINA, LEOPOLDO MARTÍN, AIRÁN RÓDENAS

SYEC 1.2 Tue 11:40–12:10 ELP 6: HS 1 **Laser surface modification of graphite anodes for lithium-ion batteries with improved fast-charging capability —** •MAX-JONATHAN KLEEFoot, JENS SANDHERR, JIRI MARTAN, VOLKER KNOBLAUCH, HARALD RIEGEL

SYEC 2.1	Tue	14:00–14:30	ELP 6: HS 4	Development of soft glass optical fibers based on 3D printed preforms — ●RYSZARD BUCZYNSKI, PAWEŁ WIENCLAW, PRZEMYSŁAW GOLEBIEWSKI, DARIUSZ PYSZ, ADAM FILIPKOWSKI, GRZEGORZ STEPNIEWSKI, OLGA CZERWINSKA, ANDRZEJ BURGS
SYEC 2.2	Tue	14:30–15:00	ELP 6: HS 4	Three-dimensional Ultrashort-Pulse Laser Nanolithography of Optical Materials — ●AIRÁN RÓDENAS, OMAR DE VARONA, FRANZETTE PAZ-BUCLATIN
SYEC 2.3	Tue	15:00–15:30	ELP 6: HS 4	Fibre-based plasmonic micro reactor CO₂ reduction — ●DEVIN O’NEILL, PATRICK SPATH, WIEBKE ALBRECHT
SYEC 5.1	Tue	17:15–17:45	ELP 6: HS 4	Studying atmospheric dynamics with lasers in remote places — ●BERND KAIFLER

Sessions

UP 1.1–1.5	Mon	11:00–12:30	ELP 6: HS 4	Atmospheric Trace Gases and Aerosols
UP 2.1–2.5	Mon	16:30–18:00	ELP 6: HS 4	Soil and Water
UP 3.1–3.4	Tue	11:00–12:00	ELP 6: HS 4	Remote Sensing
UP 4	Tue	12:30–13:15	ELP 6: HS 4	Members’ Assembly
UP 5.1–5.5	Wed	11:00–12:30	ELP 6: HS 4	Cryosphere and Arctic Oceans
UP 6.1–6.3	Wed	14:30–15:15	ELP 6: HS 4	Other Topics
UP 7.1–7.7	Wed	16:30–18:30	ELP 6: Foyer	Posters

Members’ Assembly of the Environmental Physics Division

Tuesday 12:30–13:15 ELP 6: HS 4

- Report on last year’s activities
- Update of statutes
- Vacant position in the executive board: *representative of young scientists*
- Nomination of candidates for DPG prizes
- Any other business