

## Chemical and Polymer Physics Division Fachverband Chemische Physik und Polymerphysik (CPP)

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### Overview of Invited Talks and Sessions

(Lecture halls GÖR 226, MER 02, and ZEU 255; Poster P3 and P1A)

#### Invited Talks

CPP 1.1	Mon	9:30–10:00	GÖR 226	<b>Strategies for advancing the performance of organic photovoltaics</b> — ●THOMAS ANTHOPOULOS
CPP 1.7	Mon	11:30–12:00	GÖR 226	<b>Lost in translation? Transport resistance in organic solar cells</b> — ●CARSTEN DEIBEL
CPP 2.1	Mon	9:30–10:00	MER 02	<b>Molecular Theories meet Explainable Machine Learning – Novel Concepts for Advanced Drug Formulations</b> — ●JENS SMIATEK
CPP 11.1	Mon	15:00–15:30	GÖR 226	<b>Quantifying the potential of organic solar cells using luminescence measurements and modelling</b> — ●JENNY NELSON
CPP 12.1	Mon	15:00–15:30	MER 02	<b>Adaptive Resolution Simulations: Past, Present and Open (Boundaries) Future</b> — LUIS A. BAPTISTA, MAURICIO SEVILLA, KURT KREMER, ●ROBINSON CORTES-HUERTO
CPP 13.1	Mon	15:00–15:30	ZEU 255	<b>Nanocomposites and polymer thin films: from gas phase synthesis to functional applications</b> — ●FRANZ FAUPEL, STEFAN SCHRÖDER, ALEXANDER VAHL, SALIH VEZIROGLU, CENK AKTAS, THOMAS STRUNSKUS
CPP 19.1	Tue	9:30–10:00	MER 02	<b>Multiscale Model of Flow-Induced Crystallization in Polymers</b> — DAVID NICHOLSON, MARAT ANDREEV, CHENMAY GANGAL, ●GREGORY RUTLEDGE
CPP 20.1	Tue	9:30–10:00	ZEU 255	<b>Granular Matter Rheology – fluid-/solid-like behavior and state-transitions</b> — ●STEFAN LUDING
CPP 29.1	Wed	9:30–10:00	MER 02	<b>Imaging mineral-water interfaces with atomic force microscopy</b> — ●ANGELIKA KÜHNLE
CPP 53.1	Thu	15:00–15:30	ZEU 255	<b>Aqueous nanoclusters govern ionic transport in dense polymer membranes</b> — ●JOACHIM DZUBIELLA
CPP 56.1	Fri	9:30–10:00	GÖR 226	<b>Self-assembled optical metamaterials</b> — ●ULLRICH STEINER
CPP 56.7	Fri	11:30–12:00	GÖR 226	<b>Simulating quantum systems with plasmonic waveguide arrays</b> — ●STEFAN LINDEN
CPP 56.8	Fri	12:00–12:30	GÖR 226	<b>single molecule detection on a smartphone microscope enabled by DNA origami biosensors</b> — ●PHILIP TINNEFELD
CPP 57.1	Fri	9:30–10:00	MER 02	<b>Chiral transport of active and passive colloids</b> — ●ANKE LINDNER, ANDREAS ZÖTTL, OLIVIA DU ROURE, ERIC CLEMENT, FRANCESCA TESSER, GUANGYING JING
CPP 58.1	Fri	9:30–10:00	ZEU 255	<b>Studies of polymer thermosets using scattering techniques</b> — ●MATS JOHANSSON

#### Invited Talks of the joint Symposium SKM Dissertation Prize 2023 (SYSD)

See SYSD for the full program of the symposium.

SYSD 1.1	Mon	9:30–10:00	HSZ 04	<b>Diffusion of antibodies in solution: from individual proteins to phase separation domains</b> — ●ANITA GIRELLI
SYSD 1.2	Mon	10:00–10:30	HSZ 04	<b>Intermediate Filament Mechanics Across Scales</b> — ●ANNA V. SCHEPERS

SYSD 1.3	Mon	10:30–11:00	HSZ 04	<b>Ultrafast Probing and Coherent Vibrational Control of a Surface Structural Phase Transition</b> — ●JAN GERRIT HORSTMANN
SYSD 1.4	Mon	11:00–11:30	HSZ 04	<b>Electro-active metasurfaces employing metal-to-insulator phase transitions</b> — ●JULIAN KARST
SYSD 1.5	Mon	11:30–12:00	HSZ 04	<b>The role of unconventional symmetries in the dynamics of many-body systems</b> — ●PABLO SALA

### Invited Talks of the joint Symposium Physics of Fluctuating Paths (SYFP)

See SYFP for the full program of the symposium.

SYFP 1.1	Tue	9:30–10:00	HSZ 01	<b>Time at which a stochastic process achieves its maximum</b> — ●SATYA MAJUMDAR
SYFP 1.2	Tue	10:00–10:30	HSZ 01	<b>Fluctuations and molecule-spanning dynamics of single Hsp90 proteins on timescales from nanoseconds to days</b> — ●THORSTEN HUGEL
SYFP 1.3	Tue	10:30–11:00	HSZ 01	<b>Path reweighting for Langevin dynamics</b> — ●BETTINA KELLER
SYFP 1.4	Tue	11:15–11:45	HSZ 01	<b>Out-of-equilibrium dynamics of trapped Brownian particles</b> — ●RAUL A. RICA
SYFP 1.5	Tue	11:45–12:15	HSZ 01	<b>Thermodynamics of Clocks</b> — ●PATRICK PIETZONKA

### Sessions

CPP 1.1–1.11	Mon	9:30–13:00	GÖR 226	<b>Focus: Organic Solar Cells Based on Non-fullerene Acceptors: Loss Mechanism and Options for Above 20 % Efficiencies I</b>
CPP 2.1–2.12	Mon	9:30–13:00	MER 02	<b>Modeling and Simulation of Soft Matter I</b>
CPP 3.1–3.4	Mon	9:30–10:30	ZEU 255	<b>Hydrogels and Microgels</b>
CPP 4.1–4.12	Mon	9:30–13:00	TOE 317	<b>Active Matter I (joint session BP/CPP/DY)</b>
CPP 5.1–5.10	Mon	9:30–12:30	POT 81	<b>2D Materials I (joint session HL/CPP)</b>
CPP 6.1–6.10	Mon	9:30–12:30	POT 251	<b>Perovskite and photovoltaics I (joint session HL/CPP)</b>
CPP 7.1–7.6	Mon	9:30–11:15	POT 361	<b>Organic Semiconductors (joint session HL/CPP)</b>
CPP 8.1–8.8	Mon	10:45–13:00	ZEU 255	<b>Responsive and Adaptive Systems</b>
CPP 9.1–9.5	Mon	11:30–12:45	SCH A 315	<b>Organic Thin Films, Organic-Inorganic Interfaces (joint session DS/CPP)</b>
CPP 10.1–10.3	Mon	14:30–15:30	POT 106	<b>Instrumentation and Methods for Micro- and Nanoanalysis (joint session KFM/CPP)</b>
CPP 11.1–11.7	Mon	15:00–17:15	GÖR 226	<b>Focus: Organic Solar Cells Based on Non-fullerene Acceptors: Loss Mechanism and Options for Above 20 % Efficiencies II</b>
CPP 12.1–12.7	Mon	15:00–17:15	MER 02	<b>Modeling and Simulation of Soft Matter II</b>
CPP 13.1–13.10	Mon	15:00–18:00	ZEU 255	<b>Composites and Functional Polymer Hybrids</b>
CPP 14.1–14.11	Mon	15:00–18:15	ZEU 160	<b>Active Matter II (joint session DY/BP/CPP)</b>
CPP 15.1–15.10	Mon	15:00–18:15	POT 81	<b>2D Materials II (joint session HL/CPP)</b>
CPP 16.1–16.11	Mon	15:00–17:45	GER 39	<b>Nanostructures at Surfaces (joint session O/CPP)</b>
CPP 17.1–17.60	Mon	18:00–20:00	P3	<b>Poster Session I</b>
CPP 18.1–18.13	Tue	9:30–13:00	GÖR 226	<b>Organic Electronics and Photovoltaics I (joint session CPP/HL)</b>
CPP 19.1–19.12	Tue	9:30–13:00	MER 02	<b>Crystallization, Nucleation and Self-Assembly</b>
CPP 20.1–20.10	Tue	9:30–12:30	ZEU 255	<b>Polymer and Molecular Dynamics, Friction and Rheology</b>
CPP 21.1–21.11	Tue	9:30–12:30	TOE 317	<b>Active Matter III (joint session BP/CPP/DY)</b>
CPP 22.1–22.10	Tue	9:30–12:15	POT 81	<b>2D Materials III (joint session HL/CPP)</b>
CPP 23.1–23.12	Tue	9:30–13:00	POT 112	<b>Optical Properties (joint session HL/CPP)</b>
CPP 24.1–24.11	Tue	10:00–13:00	MOL 213	<b>Complex Fluids and Soft Matter I (joint session DY/CPP)</b>
CPP 25.1–25.4	Tue	12:00–13:00	HSZ 201	<b>Molecular Electronics and Photonics (joint session TT/CPP)</b>
CPP 26.1–26.3	Tue	14:00–14:45	MER 02	<b>Electrical, Dielectrical and Optical Properties of Thin Films</b>
CPP 27.1–27.4	Tue	14:00–15:00	ZEU 147	<b>Glasses and Glass Transition I (joint session DY/CPP)</b>
CPP 28.1–28.11	Wed	9:30–12:30	GÖR 226	<b>Molecular Electronics and Excited State Properties (joint session CPP/TT)</b>
CPP 29.1–29.11	Wed	9:30–12:45	MER 02	<b>Interfaces and Thin Films</b>

CPP 30.1–30.12	Wed	9:30–13:00	TOE 317	<b>Biopolymers and Biomaterials I (joint session BP/CPP)</b> <b>Focus Session: From Inter-individual Variability to Heterogeneous Group Dynamics and Disorder in Active Matter (joint session DY/BP/CPP)</b>
CPP 31.1–31.10	Wed	9:30–13:00	ZEU 160	
CPP 32.1–32.10	Wed	9:30–12:30	POT 81	<b>2D Materials IV (joint session HL/CPP)</b> <b>Perovskite and photovoltaics II (joint session HL/CPP)</b>
CPP 33.1–33.11	Wed	9:30–13:00	POT 251	
CPP 34.1–34.11	Wed	10:00–13:00	ZEU 147	<b>Wetting, Droplets and Microfluidics I (joint session DY/CPP)</b>
CPP 35.1–35.66	Wed	11:00–13:00	P1	<b>Poster Session II</b>
CPP 36.1–36.9	Wed	15:00–17:30	GÖR 226	<b>Organic Electronics and Photovoltaics II (joint session CPP/HL)</b>
CPP 37.1–37.5	Wed	15:00–16:15	MER 02	<b>Nanostructures, Nanostructuring and Nanosized Soft Matter</b>
CPP 38.1–38.12	Wed	15:00–18:15	MOL 213	<b>Microswimmers and Fluid Physics of Life (joint session DY/CPP)</b>
CPP 39.1–39.12	Wed	15:00–18:15	ZEU 160	<b>Focus Session: Physics of Fluctuating Paths (joint session DY/CPP)</b>
CPP 40.1–40.10	Wed	15:00–17:30	GER 37	<b>2D Materials V: Growth, Structure and Substrate Interaction (joint session O/CPP)</b>
CPP 41.1–41.6	Wed	16:30–18:00	MER 02	<b>Biopolymers, Biomaterials and Bioinspired Functional Materials II (joint session CPP/BP)</b>
CPP 42.1–42.10	Thu	9:00–12:35	POT 51	<b>Battery Materials (joint session KFM/CPP)</b>
CPP 43.1–43.11	Thu	9:30–12:30	GÖR 226	<b>Organic Electronics and Photovoltaics III (joint session CPP/HL)</b>
CPP 44.1–44.13	Thu	9:30–13:00	MER 02	<b>Wetting, Fluidics and Liquids at Interfaces and Surfaces II (joint session CPP/DY)</b>
CPP 45.1–45.9	Thu	9:30–12:00	ZEU 255	<b>Emerging Topics in Chemical and Polymer Physics, New Instruments and Methods</b>
CPP 46.1–46.12	Thu	9:30–13:00	ZEU 160	<b>Active Matter IV (joint session DY/BP/CPP)</b>
CPP 47.1–47.9	Thu	9:30–12:00	POT 81	<b>2D Materials VI (joint session HL/CPP)</b>
CPP 48.1–48.11	Thu	10:15–13:15	SCH A 251	<b>Data Driven Materials Science: Big Data and Work Flows – Microstructure-Property-Relationships (joint session MM/CPP)</b>
CPP 49.1–49.9	Thu	10:30–12:45	GER 37	<b>2D Materials VII: Heterostructures (joint session O/CPP)</b>
CPP 50.1–50.3	Thu	12:15–13:00	ZEU 255	<b>Glasses and Glas Transition II</b>
CPP 51.1–51.8	Thu	15:00–17:15	GÖR 226	<b>Hybrid and Perovskite Photovoltaics III</b>
CPP 52.1–52.5	Thu	15:00–16:15	MER 02	<b>Wetting, Fluidics and Liquids at Interfaces and Surfaces III (joint session CPP/DY)</b>
CPP 53.1–53.9	Thu	15:00–17:45	ZEU 255	<b>Charged Soft Matter, Polyelectrolytes and Ionic Liquid</b>
CPP 54.1–54.5	Thu	16:30–17:45	MER 02	<b>2D Materials VIII</b>
CPP 55	Thu	18:00–19:00	MER 02	<b>Members' Assembly</b>
CPP 56.1–56.8	Fri	9:30–12:30	GÖR 226	<b>Focus: Self-Assembly of Plasmonic Nanostructures (joint session CPP/HL)</b>
CPP 57.1–57.12	Fri	9:30–13:00	MER 02	<b>Complex Fluids and Colloids, Micelles and Vesicles II (joint session CPP/DY)</b>
CPP 58.1–58.7	Fri	9:30–11:30	ZEU 255	<b>Polymer Networks and Elastomers</b>
CPP 59.1–59.8	Fri	9:30–12:00	TOE 317	<b>Active Matter V (joint session BP/CPP/DY)</b>
CPP 60.1–60.1	Fri	12:15–13:00	HSZ 03	<b>Closing Plenary Talk (joint session BP/CPP)</b>

## Members' Assembly of the Chemical and Polymer Physics Division

Thursday 18:00-19:00 MER 02

- Report of the current speaker team
- Election of the second deputy speaker
- Award of the poster prize of the CPP Division
- Miscellaneous