

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

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Overview of Invited Talks and Sessions

(Lecture halls H38 and H39; Poster P1 and P2)

Invited Talks

CPP 1.1	Mon	9:30–10:00	H38	Ternary blend approach for boosting performance and stability of organic solar cells — ●TAYEBEH AMERI
CPP 8.1	Mon	15:00–15:30	H38	Stimuli-Responsive Opal Films based on Core-Shell Particle Self-Assembly — ●MARKUS GALLEI
CPP 8.3	Mon	15:45–16:15	H38	Self-assembled photonic pigments from bottlebrush block copolymers — ●RICHARD PARKER, TIANHENG ZHAO, ZHEN WANG, CLEMENT CHAN, SILVIA VIGNOLINI
CPP 8.5	Mon	16:45–17:15	H38	Hierarchically structured mechanochromic deformation-sensing pigments — ●JESSICA CLOUGH, CÉDRIC KILCHOER, BODO WILTS, CHRIS WEDER
CPP 13.1	Tue	9:30–10:00	H38	Insights into degradation mechanisms in Li-based batteries and advantages of polymer coatings — ●NEELIMA PAUL
CPP 18.1	Tue	11:30–12:00	H38	How X-rays can reveal waters mysteries — ●KATRIN AMANN-WINKEL
CPP 19.1	Wed	9:30–10:00	H38	Elucidating the role of antisolvent polarity on the surface chemistry and optoelectronic properties of lead-halide perovskite nanocrystals — ●ROBERT HOYE
CPP 33.1	Thu	9:30–10:00	H38	Cooperative and non-Gaussian dynamics of entanglement strands in polymer melts — ●MARGARITA KRUTEVA, MICHAELA ZAMPONI, INGO HOFFMANN, JÜRGEN ALLGAIER, LUTZ WILLNER, ANDREAS WISCHNEWSKI, MICHAEL MONKENBUSCH, DIETER RICHTER
CPP 37.1	Thu	10:30–11:00	H39	Non-equilibrium Properties of Thin Polymer Films — ●GÜNTER REITER, SIVASURENDER CHANDRAN
CPP 40.1	Thu	15:00–15:30	H38	Computational Design of Organic Semiconductors — ●HARALD OBERHOFER
CPP 41.1	Thu	15:00–15:30	H39	Interface-induced crystallization in polymers: From model systems to applications for semiconducting polymers — MUHAMMAD TARIQ, ROBERT KAHL, MUKUNDAN THELAKKAT, THOMAS THURN-ALBRECHT, ●OLEKSANDR DOLYNCHUK
CPP 44.1	Fri	9:30–10:00	H38	Connecting dynamics and phase behavior of proteins: The neutron perspective — ●FRANK SCHREIBER
CPP 44.5	Fri	10:45–11:15	H38	Magnetic particle self-assembly at functionalized interfaces — ●MAX WOLFF
CPP 45.1	Fri	9:30–10:00	H39	New biobased material concepts using scattering techniques to elucidate and control nanoscale assembly — ●DANIEL SÖDERBERG

Invited Talks of the joint Symposium SKM Dissertation Prize 2022 (SYSD)

See SYSD for the full program of the symposium.

SYSD 1.1	Mon	10:15–10:45	H2	Charge localisation in halide perovskites from bulk to nano for efficient optoelectronic applications — ●SASCHA FELDMANN
SYSD 1.2	Mon	10:45–11:15	H2	Nonequilibrium Transport and Dynamics in Conventional and Topological Superconducting Junctions — ●RAFFAEL L. KLEES
SYSD 1.3	Mon	11:15–11:45	H2	Probing magnetostatic and magnetotransport properties of the antiferromagnetic iron oxide hematite — ●ANDREW ROSS
SYSD 1.4	Mon	11:45–12:15	H2	Quantum dot optomechanics with surface acoustic waves — ●MATTHIAS WEISS

Invited Talks of the joint Symposium From Physics and Big Data to the Design of Novel Materials (SYNM)

See SYNM for the full program of the symposium.

SYNM 1.1	Mon	15:00–15:30	H1	How to tackle the "P" in FAIR? — ●CLAUDIA DRAXL
SYNM 1.2	Mon	15:30–16:00	H1	Beyond the average error: machine learning for the discovery of novel materials — ●MARIO BOLEY, SIMON TESHUVA, FELIX LUONG, LUCAS FOPPA, MATTHIAS SCHEFFLER
SYNM 1.3	Mon	16:00–16:30	H1	The Phase Diagram of All Inorganic Materials — ●CHRIS WOLVERTON
SYNM 1.4	Mon	16:45–17:15	H1	Automated data-driven upscaling of transport properties in materials — ●DANNY PEREZ, THOMAS SWINBURNE
SYNM 1.5	Mon	17:15–17:45	H1	Data-driven understanding of concentrated electrolytes — ●ALPHA LEE

Invited Talks of the joint Symposium United Kingdom as Guest of Honor (SYUK)

See SYUK for the full program of the symposium.

SYUK 1.1	Wed	9:30–10:00	H2	Structure and Dynamics of Interfacial Water — ●ANGELOS MICHAELIDES
SYUK 1.2	Wed	10:00–10:30	H2	A molecular view of the water interface — ●MISCHA BONN
SYUK 1.3	Wed	10:30–11:00	H2	Motile cilia waves: creating and responding to flow — ●PIETRO CICUTA
SYUK 1.4	Wed	11:00–11:30	H2	Cilia and flagella: Building blocks of life and a physicist's playground — ●OLIVER BÄUMCHEN
SYUK 1.5	Wed	11:45–12:15	H2	Computational modelling of the physics of rare earth - transition metal permanent magnets from SmCo_5 to $\text{Nd}_2\text{Fe}_{14}\text{B}$ — ●JULIE STAUNTON
SYUK 2.1	Wed	15:00–15:30	H2	Hysteresis Design of Magnetic Materials for Efficient Energy Conversion — ●OLIVER GUTFLEISCH
SYUK 2.2	Wed	15:30–16:00	H2	Non-equilibrium dynamics of many-body quantum systems versus quantum technologies — ●IRENE D'AMICO
SYUK 2.3	Wed	16:00–16:30	H2	Quantum computing with trapped ions — ●FERDINAND SCHMIDT-KALER
SYUK 2.4	Wed	16:45–17:15	H2	Breaking the millikelvin barrier in cooling nanoelectronic devices — ●RICHARD HALEY
SYUK 2.5	Wed	17:15–17:45	H2	Superconducting Quantum Interference Devices for applications at mK temperatures — ●SEBASTIAN KEMPF

Invited Talks of the joint Symposium Interplay of Substrate Adaptivity and Wetting Dynamics from Soft Matter to Biology (SYSM)

See SYSM for the full program of the symposium.

SYSM 1.1	Wed	15:00–15:30	H1	Statics and Dynamics of Soft Wetting — ●BRUNO ANDREOTTI
SYSM 1.2	Wed	15:30–16:00	H1	Droplets on elastic substrates and membranes - Numerical simulation of soft wetting — ●SEBASTIAN ALAND
SYSM 1.3	Wed	16:00–16:30	H1	Wetting of Polymer Brushes in Air — LARS VELDSCHOLTE, GUIDO RITSEMA VAN ECK, LIZ MENSINK, JACCO SNOEIJER, ●SISSI DE BEER
SYSM 1.4	Wed	16:45–17:15	H1	Elastocapillary phenomena in cells — ●ROLAND L. KNORR
SYSM 1.5	Wed	17:15–17:45	H1	Active contact line depinning by micro-organisms spreading on hydrogels — MARC HENNES, JULIEN TAILLEUR, GAËLLE CHARRON, ●ADRIAN DAERR

Sessions

CPP 1.1–1.12	Mon	9:30–13:00	H38	Organic Electronics and Photovoltaics 1
CPP 2.1–2.4	Mon	9:30–10:30	H39	Polymer Networks and Elastomers
CPP 3.1–3.11	Mon	9:30–12:45	H34	Perovskite and Photovoltaics 1 (joint session HL/CPP/KFM)
CPP 4.1–4.10	Mon	9:30–12:45	H36	2D Materials 1 (joint session HL/CPP/DS)
CPP 5.1–5.8	Mon	10:00–12:15	H19	Wetting, Droplets and Microfluidics (joint session DY/CPP)
CPP 6.1–6.7	Mon	10:30–12:45	H16	Active Matter 1 (joint session BP/CPP/DY)
CPP 7.1–7.8	Mon	10:45–13:00	H39	Wetting, Fluidics and Liquids at Interfaces and Surfaces
CPP 8.1–8.5	Mon	15:00–17:15	H38	Focus Session: Photonic Structures from Polymer and Colloidal Self-Assembly
CPP 9.1–9.10	Mon	15:00–17:45	H39	Modeling and Simulation of Soft Matter (joint session CPP/DY)
CPP 10.1–10.12	Mon	15:00–18:30	H36	2D Materials 2 (joint session HL/CPP/DS)
CPP 11.1–11.2	Mon	17:15–17:45	H38	2D Materials 3 (joint session CPP/DS)
CPP 12.1–12.80	Mon	18:00–20:00	P1	Poster 1
CPP 13.1–13.6	Tue	9:30–11:15	H38	Charged Soft Matter, Polyelectrolytes and Ionic Liquid
CPP 14.1–14.7	Tue	9:30–11:15	H39	Emerging Topics in Chemical and Polymer Physics, New Instruments and Methods
CPP 15.1–15.8	Tue	9:30–12:00	H36	2D Materials 4 (joint session HL/CPP/DS)
CPP 16.1–16.11	Tue	10:00–13:00	H18	Active Matter 2 (joint session DY/BP/CPP)
CPP 17.1–17.41	Tue	11:00–13:00	P2	Poster 2
CPP 18.1–18.5	Tue	11:30–13:00	H38	Complex Fluids and Colloids, Micelles and Vesicles (joint session CPP/DY)
CPP 19.1–19.5	Wed	9:30–11:00	H38	Perovskite and Photovoltaics 2
CPP 20.1–20.7	Wed	9:30–11:15	H39	General Session to the Symposium: Interplay of Substrate Adaptivity and Wetting Dynamics from Soft Matter to Biology (joint session CPP/DY)
CPP 21.1–21.7	Wed	9:30–12:05	H7	Materials for Energy Storage (joint session KFM/CPP)
CPP 22.1–22.10	Wed	9:30–12:30	H16	Active Matter 3 (joint session BP/CPP/DY)
CPP 23.1–23.9	Wed	9:30–12:00	H18	Complex Fluids and Soft Matter 1 (joint session DY/CPP)
CPP 24.1–24.9	Wed	9:30–12:00	H36	2D Materials 5 (joint session HL/CPP/DS)
CPP 25.1–25.7	Wed	11:15–13:00	H17	2D Materials 6 (joint session DS/CPP)
CPP 26.1–26.6	Wed	11:30–13:00	H38	Organic Electronics and Photovoltaics 2
CPP 27.1–27.6	Wed	11:30–13:00	H39	Composites and Functional Polymer Hybrids
CPP 28.1–28.8	Wed	15:00–17:15	H38	Perovskite and Photovoltaics 3
CPP 29.1–29.8	Wed	15:00–17:30	H15	Biomaterials (joint session BP/CPP)
CPP 30.1–30.4	Wed	15:00–16:00	H17	2D Materials 7 (joint session DS/CPP)
CPP 31.1–31.9	Wed	15:00–17:30	H18	Active Matter 4 (joint session DY/BP/CPP)
CPP 32.1–32.11	Wed	15:00–18:15	H34	Perovskite and Photovoltaics 4 (joint session HL/CPP/KFM)
CPP 33.1–33.6	Thu	9:30–11:15	H38	Focus Session: Soft Matter and Nanocomposites: New Opportunities with Advanced Neutron Sources 1
CPP 34.1–34.3	Thu	9:30–10:15	H39	Hydrogels and Microgels
CPP 35.1–35.8	Thu	9:30–11:30	H17	2D Materials 8 (joint session DS/CPP)
CPP 36.1–36.6	Thu	10:00–11:30	H18	Complex Fluids and Soft Matter 2 (joint session DY/CPP)
CPP 37.1–37.8	Thu	10:30–13:00	H39	Interfaces and Thin Films and Responsive and Adaptive Systems
CPP 38.1–38.4	Thu	11:15–12:15	H36	2D Materials 9 (joint session HL/CPP/DS)
CPP 39.1–39.6	Thu	11:30–13:00	H38	Molecular Electronics and Excited State Properties
CPP 40.1–40.9	Thu	15:00–17:45	H38	Organic Electronics and Photovoltaics 3
CPP 41.1–41.8	Thu	15:00–17:30	H39	Crystallization, Nucleation and Self-Assembly
CPP 42.1–42.6	Thu	15:00–16:30	H31	Perovskite and Photovoltaics 5 (joint session HL/CPP/KFM)
CPP 43	Thu	18:00–19:00	H39	Members' Assembly
CPP 44.1–44.5	Fri	9:30–11:15	H38	Focus Session: Soft Matter and Nanocomposites: New Opportunities with Advanced Neutron Sources 2
CPP 45.1–45.6	Fri	9:30–11:15	H39	Biopolymers, Biomaterials and Bioinspired Functional Materials (joint session CPP/BP)
CPP 46.1–46.9	Fri	9:30–12:00	H36	2D Materials 10 (joint session HL/CPP/DS)
CPP 47.1–47.11	Fri	10:00–12:45	H18	Active Matter 5 (joint session DY/BP/CPP)
CPP 48.1–48.4	Fri	11:30–12:30	H38	Electrical, Dielectrical and Optical Properties of Thin Films (joint session CPP/KFM)
CPP 49.1–49.6	Fri	11:30–13:00	H39	Polymer and Molecular Dynamics, Friction and Rheology
CPP 50.1–50.2	Fri	12:30–13:00	H38	Nanostructures, Nanostructuring and Nanosized Soft Matter
CPP 51.1–51.1	Fri	13:15–14:00	S054	Overview Talk Claus M. Schneider (joint session O/CPP)

Members' Assembly of the Chemical and Polymer Physics Division

Thursday 18:00–19:00 H39

- Report of the current speaker team
- Election of the second deputy speaker
- Miscellaneous