

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

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Overview of Invited Talks and Sessions

(lecture rooms C 130, C 243, C 264, ER 270; Poster A)

Plenary, Keynote and Prize Talks related to Division CPP

PV III	Mon	14:00–14:45	ER 270	Soft Matter and Life Sciences: Research with Neutrons — •DIETER RICHTER
PV IV	Mon	14:00–14:45	HE 101	Elementary excitations in single molecules on surfaces — •KATHARINA J. FRANKE
PV IX	Tue	14:00–14:45	HE 101	STM of Defects, Adsorbates, and Nanostructures at Oxide Surfaces — •ULRIKE DIEBOLD
PV X	Tue	14:00–14:45	H 0104	Terahertz Science and Technology: Key Innovations and Driving Applications — •KARSTEN BUSE
PV XI	Tue	17:20–18:00	H 0105	Metamaterials and Transformation Optics — •MARTIN WEGENER
PV XIX	Thu	13:15–14:00	H 0105	Mechanics and Growth of Tissues — •JEAN-FRANCOIS JOANNY
PV XX	Thu	14:00–14:45	H 0105	How superficial is adhesion? Common fundamentals of gecko, bacteria, protein and thin film adhesion — •KARIN JACOBS
PV XXIV	Fri	8:30– 9:15	H 0105	Role of van der Waals Interactions in Physics, Chemistry, and Biology — •MATTHIAS SCHEFFLER

Invited and Topical Talks

CPP 1.1	Mon	9:30–10:00	C 130	Local anodic oxidation nanolithography on alkyl-terminated silicon surfaces: Chemical routes towards functional nanostructures — •HARALD GRAAF, MAIK VIELUF, THOMAS BAUMGÄRTEL
CPP 2.8	Mon	11:30–12:00	C 243	Gold nanoparticle assisted thermophoretic trapping of single nano-objects — MARCO BRAUN, ROMY SCHACHOFF, •FRANK CICHOS
CPP 3.1	Mon	9:30–10:00	ER 270	Neither crystalline nor amorphous: how charge transport is affected by order in organic semiconductors — •ALBERTO SALLEO
CPP 3.7	Mon	11:45–12:15	ER 270	Charge transport and recombination in organic light-emitting diodes — •PAUL BLOM
CPP 4.1	Mon	15:00–15:30	C 243	Glass transition by molecular network topology freezing and discovery of vitrimers — •LUDWIK LEIBLER, DAMIEN MONTARNAL, MATHIEU CAPELOT, FRANÇOIS TOURNILHAC
CPP 4.2	Mon	15:30–16:00	C 243	Elastic Properties of 2D amorphous solids — •PETER KEIM
CPP 5.1	Mon	15:00–15:30	ER 270	Single-Molecule Spectroscopy of Conjugated Polymers: Unravelling Chain Conformations from the Bottom Up — •JOHN LUPTON
CPP 5.5	Mon	16:15–16:45	ER 270	Band dispersion and localized states in organic solids — NOBUO UENO, •NORBERT KOCH
CPP 10.1	Tue	9:30–10:00	C 130	PEG Functionalized Lipid Bilayers at the Solid / Liquid Interface: Protrusions versus Blisters — •BEATE KLÖSGEN, GIOVANNA FRAGNETO, AVI HALPERIN, OLE G. MOURITSEN, PATRICIA HARDAS, MICHELE SFERAZZA
CPP 11.1	Tue	9:30–10:00	C 243	Employing natural search strategies for complex optimization problems — CHRISTOPH SCHIFFMANN, •DANIEL SEBASTIANI

CPP 28.1	Wed	15:00–15:30	C 130	The glass transition is continuous but gelation is discontinuous in sticky spheres — ●PADDY ROYALL, STEPHEN WILLIAMS, HAJIME TANAKA
CPP 29.1	Wed	15:00–15:30	C 243	Observation of kinks and antikinks in colloidal monolayers driven across ordered surfaces — ●THOMAS BOHLEIN, JULES MIKHAEL, CLEMENS BECHINGER
CPP 29.2	Wed	15:30–16:00	C 243	2D and 3D assembly of polymer-coated gold nanoparticles — ●MATTHIAS KARG
CPP 30.1	Wed	15:00–15:30	C 264	Soft Matter Research at the ESS — ●KEN ANDERSEN
CPP 30.7	Wed	17:00–17:30	C 264	Scanning small-angle X-ray scattering: Imaging nano-scale properties of extended samples — ●OLIVER BUNK
CPP 31.1	Thu	9:30–10:00	C 130	Large area flexible and stretchable electronics — ●SIEGFRIED BAUER
CPP 32.1	Thu	9:30–10:00	C 243	Stress relaxation and chain dynamics in entangled polymer melts — ●RALF EVERAERS
CPP 32.5	Thu	10:45–11:15	C 243	Slow stress relaxation in recoiling polymers — ●ULRICH F. KEYSER
CPP 32.9	Thu	12:00–12:30	C 243	Cytoskeletal stress in collective cell migration — ●XAVIER TREPAT
CPP 33.1	Thu	9:30–10:00	C 264	Neutron Scattering Studies on Self-Healing Model Polymers — ●ANA RITA BRÁS, JESSALYN CORTESE, CORINNE SOULIÉ-ZIAKOVIC, FRANÇOIS TOURNILHAC, JÜRGEN ALLGAIER, WIM PYCKHOUT-HINTZEN, ANDREAS WISCHNEWSKI, LUDWIK LEIBLER, DIETER RICHTER
CPP 33.6	Thu	11:15–11:45	C 264	Shear inversion of polymer-brush bilayers with embedded colloids — ●TORSTEN KREER, ANDRE GALUSCHKO
CPP 34.1	Thu	15:00–15:30	C 130	Colloidal quasicrystals: from their discovery to photonic applications — ●STEPHAN FÖRSTER, ALEXANDER EXNER, SABINE ROSENFELDT, JAN PERLICH, PETER LINDNER
CPP 35.1	Thu	15:00–15:30	C 243	Motion of microswimmers governed by light in a fluid flow. — ●PHILIPPE PEYLA, SALIMA RAFAÏ, XABEL GARCIA
CPP 36.1	Thu	15:00–15:30	C 264	From superhydrophobic to superamphiphobic coatings: How to tune wetting — ●DORIS VOLLMER, XU DENG, LENA MAMMEN, PERIKLIS PAPADOPOULOS, HANS-JÜRGEN BUTT
CPP 38.1	Fri	9:30–10:00	C 130	The Rheology of Biological Cells — MATHIAS SANDER, BENJAMIN TRÄNKLE, PABLO FERNANDEZ, PRAMOD PULLARKAT, LUTZ HEYMANN, NURI AKSEL, ●ALBRECHT OTT
CPP 39.4	Fri	10:15–10:45	C 243	Guided and spatio-selective transport via anisotropic fluid flows — ●ANUPAM SENGUPTA, CHRISTIAN BAHR

Invited talks of the joint symposium SYXD

See SYXD for the full program of the symposium.

SYXD 1.1	Mon	15:00–15:30	H 0105	Disputed discovery: The beginnings of X-ray diffraction in crystals — ●MICHAEL ECKERT
SYXD 1.2	Mon	15:30–16:00	H 0105	Why are quasicrystals quasiperiodic? — ●WALTER STEURER
SYXD 1.3	Mon	16:00–16:30	H 0105	Coherent Diffraction Imaging with Free-Electron Lasers — ●MASSIMO ALTARELLI
SYXD 1.4	Mon	16:30–17:00	H 0105	X-ray free-electron lasers - emerging opportunities for structural biology — ●ILME SCHLICHTING
SYXD 1.5	Mon	17:00–17:30	H 0105	Structure analysis by x-ray diffraction and x-ray imaging: beyond crystals, beyond averages, and beyond modeling — ●TIM SALDITT

Invited talks of the joint symposium SYOL

See SYOL for the full program of the symposium.

SYOL 1.1	Fri	9:30–10:00	H 0105	From sequence to function: Random polymerization and modular evolution of RNA — ●SUSANNA C. MANRUBIA
SYOL 1.2	Fri	10:00–10:30	H 0105	Spontaneous autocatalysis and periodic switching in a prebiotic broth — ●EVA WOLLRAB, SABRINA SCHERER, KARSTEN KRUSE, ALBRECHT OTT
SYOL 1.3	Fri	10:30–11:00	H 0105	Thermal solutions for molecular evolution — ●DIETER BRAUN
SYOL 1.4	Fri	11:00–11:30	H 0105	Systems chemistry: Self-replication and chiral symmetry breaking — ●GUENTER VON KIEDROWSKI

Sessions

CPP 1.1–1.13	Mon	9:30–13:15	C 130	Interfaces and Thin Films I
CPP 2.1–2.13	Mon	9:30–13:15	C 243	Nanoparticles and Composite Materials
CPP 3.1–3.11	Mon	9:30–13:15	ER 270	Focus: Structural Ordering and Electronic Transport I (joint focus with HL)
CPP 4.1–4.8	Mon	15:00–17:30	C 243	Glasses I (joint session with DY)
CPP 5.1–5.8	Mon	15:00–17:30	ER 270	Focus: Structural Ordering and Electronic Transport II (joint focus with HL)
CPP 6.1–6.29	Mon	17:30–19:30	Poster A	Poster: Structural Ordering and Electronic Transport (joint focus with HL)
CPP 7.1–7.10	Mon	17:30–19:30	Poster A	Poster: Biopolymers and Biomaterials (jointly with BP)
CPP 8.1–8.50	Mon	17:30–20:00	Poster A	Poster: Nanoparticles and Composite Materials
CPP 9.1–9.12	Tue	9:30–13:00	H 1058	Biopolymers and Biomaterials (joint session with BP)
CPP 10.1–10.12	Tue	9:30–13:00	C 130	Interfaces and Thin Films II
CPP 11.1–11.12	Tue	9:30–13:00	C 243	New Instruments and Methods
CPP 12.1–12.10	Tue	10:00–12:30	MA 004	Glasses II (joint session with DY)
CPP 13.1–13.36	Tue	18:15–20:45	Poster A	Poster: Interfaces and Thin Films
CPP 14.1–14.17	Tue	18:15–20:15	Poster A	Poster: Glasses I (jointly with DY)
CPP 15.1–15.19	Tue	18:15–20:15	Poster A	Poster: New Instruments and Methods
CPP 16.1–16.46	Tue	18:15–20:45	Poster A	Poster: Colloids and Complex Liquids
CPP 17.1–17.21	Tue	18:15–20:15	Poster A	Poster: Crystallisation, Nucleation and Self assembly
CPP 18.1–18.6	Wed	9:30–11:00	C 130	Organic semiconductors I
CPP 19.1–19.6	Wed	9:30–11:00	C 243	Charged Soft Matter
CPP 20.1–20.6	Wed	9:30–11:00	C 264	(Hydro)gels and Elastomers
CPP 21.1–21.23	Wed	11:00–13:00	Poster A	Poster: Wetting, Micro and nanofluidics
CPP 22.1–22.18	Wed	11:00–13:00	Poster A	Poster: Charged Soft Matter
CPP 23.1–23.15	Wed	11:00–13:00	Poster A	Poster: Polymer Dynamics
CPP 24.1–24.33	Wed	11:00–13:00	Poster A	Poster: Organic Semiconductors
CPP 25.1–25.11	Wed	11:00–13:00	Poster A	Poster: Stress Relaxation in Polymers - From single molecules to biological cells (joint focus with BP)
CPP 26.1–26.8	Wed	11:00–13:00	Poster A	Poster: New Perspectives of Scattering at Soft Matter
CPP 27.1–27.17	Wed	11:00–13:00	Poster A	Poster: (Hydrogels) and Elastomers
CPP 28.1–28.13	Wed	15:00–18:45	C 130	Colloids and Complex Liquids I
CPP 29.1–29.12	Wed	15:00–18:45	C 243	Crystallisation, Nucleation and Self assembly
CPP 30.1–30.12	Wed	15:00–18:45	C 264	New Perspectives of Scattering at Soft Matter
CPP 31.1–31.11	Thu	9:30–12:45	C 130	Organic semiconductors II
CPP 32.1–32.9	Thu	9:30–12:30	C 243	Focus: Stress Relaxation in Polymers - From single molecules to biological cells (joint focus with BP)
CPP 33.1–33.9	Thu	9:30–12:30	C 264	Polymer Dynamics
CPP 34.1–34.13	Thu	15:00–18:45	C 130	Colloids and Complex Liquids II
CPP 35.1–35.13	Thu	15:00–18:45	C 243	Focus: Rheology I (joint focus with DRG)
CPP 36.1–36.13	Thu	15:00–18:45	C 264	Wetting, Micro and nanofluidics I
CPP 37.1–37.10	Thu	18:45–19:45	Poster A	Poster: Rheology (joint focus with DRG)
CPP 38.1–38.10	Fri	9:30–12:15	C 130	Focus: Rheology II (joint focus with DRG)
CPP 39.1–39.9	Fri	9:30–12:00	C 243	Wetting, Micro and nanofluidics II

Annual General Meeting of the Chemical and Polymer Physics Division

Wednesday 19:00–20:00 C130

- Report
- Election Vice-Spokeperson
- Conference 2013
- CPP Poster prize
- Other topics