

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

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Overview of Invited Talks and Sessions

(lecture rooms H1, H34, H39 and H40; Poster C)

Plenary and Prize Talks related to Division CPP

PV II	Mon	14:00–14:45	H1	Exploring the Functionality of Advanced Materials through Scanning Transmission Electron Microscopy — ●STEPHEN PENNYCOOK
PV VII	Tue	14:00–14:45	H15	Self-assembly, Self-organization and Control of Colloidal Suspensions — ●SABINE H. L. KLAPP
PV XII	Wed	14:00–14:45	H15	Novel Strategies for the Assembly of Quasicrystals: Epitaxial Growth of Three-dimensional Nanoporous Frameworks — ●CHRISTOF WÖLL
PV XV	Thu	13:15–13:45	H1	Near Field Optics – Science of the "Invisible Light" — ●WOLFGANG DIETER POHL
PV XVIII	Fri	8:30– 9:15	H1	Templated Self-assembly of Block Copolymer Films — ●CAROLINE ROSS

Invited Talks

CPP 1.1	Mon	9:30–10:00	H34	Rich variety of polymer dynamics in nanocomposites — ●GERALD JOHANNES SCHNEIDER
CPP 1.7	Mon	11:30–12:00	H34	Photonic structures based on responsive nanoparticle/microgel hybrids — ●THOMAS HELLWEG
CPP 2.1	Mon	9:30–10:00	H40	Langmuir monolayers as physical models in bio- and nanosciences — ●HELMUTH MÖHWALD, GERALD BREZESINSKY
CPP 5.1	Mon	15:00–15:30	H34	Intra- and inter-molecular dynamics in glass-forming liquids — ●PERIKLIS PAPADOPOULOS, WILHELM KOSSACK, FRIEDRICH KREMER
CPP 6.1	Mon	15:00–15:30	H40	a molecular picture of charge-transfer processes at donor-acceptor interfaces in organic solar cells — ●JEAN-LUC BREDAS
CPP 6.4	Mon	16:00–16:30	H40	High efficiency OLEDs based on delayed fluorescence — ●CHIHAYA ADACHI
CPP 6.7	Mon	17:00–17:30	H40	The role of intermolecular hybridization in molecular electrical doping — ●INGO SALZMANN, GEORG HEIMEL, HENRY MÉNDEZ, ANDREAS OPITZ, PATRICK BARKOWSKI, MARTIN OEHZELT, KATREIN SAUER, NORBERT KOCH
CPP 13.1	Tue	9:30–10:00	H34	Hierarchical Multi-Step Folding of Polymer Bilayers — GEORGI STOYCHEV, SEBASTIEN TURCAUD, JOHN DUNLOP, ●LEONID IONOV
CPP 16.1	Tue	9:30–10:00	H40	Functional nanolayers made from colloidal building blocks — ●ANDREAS FERY
CPP 22.1	Wed	9:30–10:00	H34	Liquid drops on soft solids — ●JACCO SNOEIJER
CPP 22.7	Wed	11:30–12:00	H34	Wetting transitions in polymer decorated nanostructured surfaces — ●JÜRGEN RÜHE
CPP 23.1	Wed	9:30–10:00	H39	Polymers, rings and pores: A neutron scattering study — ●ANDREAS WISCHNEWSKI
CPP 24.1	Wed	9:30–10:00	H40	Factors determining the contact resistance in organic thin-film transistors — MANFRED GRUBER, ●EGBERT ZOJER, FERDINAND SCHÜRRER, KARIN ZOJER
CPP 26.1	Wed	15:00–15:30	H34	Leidenfrost Dynamics — ●DAVID QUÉRÉ

CPP 28.1	Wed	15:00–15:30	H40	Self Organization of Colloidal Crystals and of Co-operative Propulsion by Salt Gradient Induced Flows — ●THOMAS PALBERG
CPP 39.1	Thu	9:30–10:00	H34	Influence of morphology on organic solar cell performance comparing crystalline diindenoperylene (DIP) and its amorphous derivative tetraphenyldibenzoperiflanthene (DBP) — STEFAN GROB, MARK GRUBER, ULRICH HÖRMANN, ●WOLFGANG BRÜTTING
CPP 40.1	Thu	9:30–10:00	H39	Collective van der Waals Interactions in Molecules, Solids, and Interfaces — ●ALEXANDRE TKATCHENKO
CPP 40.3	Thu	10:15–10:45	H39	The influence of van der Waals interactions on the adsorption of proteins to solid/liquid interfaces — ●HENDRIK HÄHL
CPP 41.1	Thu	9:30–10:00	H40	Out-of-Equilibriumness of Light Activated Colloids — ●JEREMIE PALACCI, STEFANO SACANNA, ASHER PRESKA STEINBERG, ADRIAN VATCHINSKY, KASEY HANSON, DAVID PINE, PAUL CHAIKIN
CPP 41.4	Thu	10:30–11:00	H40	Mesoscale Simulations of Active Colloids — ●GERHARD GOMPPER
CPP 41.8	Thu	12:00–12:30	H40	Orientalional Order and Packings of Non-Spherical Particles — ●KLAUS MECKE, RENE WITTMANN, SEBASTIAN KAPFER, GERD SCHRÖDER-TURK
CPP 43.1	Thu	15:00–15:30	H34	Quantum coherence controls the charge separation in a prototypical artificial light harvesting system — ●C. LIENAU, S. M. FALKE, C. A. ROZZI, N. SPALLANZANI, A. RUBIO, E. MOLINARI, D. BRIDA, M. MAIURI, G. CERULLO, H. SCHRAMM, J. CHRISTOFFERS
CPP 44.1	Thu	15:00–15:30	H39	Dynamic reorganization of droplets: from Foams to Phonons — ●RALF SEEMANN, JEAN-BAPTISTE FLEURY, ULF D. SCHILLER, SHASHI THUTUPALLI, OHLE CLAUSSEN, STEPHAN HERMINGHAUS, GERHARD GOMPPER, MARTIN BRINKMANN
CPP 44.7	Thu	17:00–17:30	H39	Wetting behaviour in inkjet printed droplets — ●PATRICK SMITH, JONATHAN STRINGER
CPP 45.1	Thu	15:00–15:30	H40	Interacing colloidal fluids self-assembled from supramolecular polymers — TINGZI YAN, KLAUS SCHRÖTER, FLORIAN HERBST, WOLFGANG BINDER, ●THOMAS THURN-ALBRECHT
CPP 47.1	Fri	9:30–10:00	H34	Ion transport in polyelectrolyte materials: Mechanisms and general scaling concepts — ●MONIKA SCHÖNHOF, CORNELIA CRAMER, SOUVIK DE, AMRTHA BHIDE
CPP 48.1	Fri	9:30–10:00	H39	The distribution of segmental order in polymer networks — ●MICHAEL LANG, JENS-UWE SOMMER
CPP 49.1	Fri	9:30–10:00	H40	Interface-controlled property adjustment in ionic liquid/inorganic hybrid materials — ●ANDREAS TAUBERT

Symposium Charge Transfer Effects in Molecular Materials (SYCT)

SYCT 1.1	Mon	9:30–10:00	H1	A coarse grained QM/MM approach for the description of charge transfer in complex systems — ●MARCUS ELSTNER
SYCT 1.2	Mon	10:00–10:30	H1	Identifying and resolving charge separation in organic solar cells — ●EBERHARD RIEDLE
SYCT 1.3	Mon	10:30–11:00	H1	Quantifying the energy of charge transfer states: From molecular crystals to donor-acceptor blends — ●REINHARD SCHOLZ
SYCT 1.4	Mon	11:00–11:30	H1	Efficient Exciton Generation and Collection in Organic Solar Cells — ●MARK THOMPSON, CONG TRINH, STEVE FORREST, JEREMY ZIMMERMAN
SYCT 1.5	Mon	11:30–12:00	H1	Electron transport in organic single-crystal transistors and Schottky-gated heterostructures — ●ALBERTO MORPURGO

Symposium Quantum Plasmonics (SYBD)

SYBD 1.1	Mon	15:00–15:30	H1	Functionalization and Pharmaceutical Aspects of Magnetic Nanoparticles (Magnetic Carriers) — ●URS O. HÄFELI
SYBD 1.2	Mon	15:30–16:00	H1	Fluid mechanical aspects of therapeutic application of suspensions of magnetic nanoparticles — ●STEFAN ODENBACH
SYBD 1.3	Mon	16:00–16:30	H1	Magnetic Particle Imaging: A new Medical Imaging Modality — ●THORSTEN BUZUG

SYBD 1.4	Mon	16:30–17:00	H1	Superparamagnetic iron oxide nanoparticles for MR-visible mesh implants and novel drug targeting models — ●IOANA SLABU, ANJALI ROETH, CHRISTIANE KUHLE, THOMAS SCHMITZ-RODE, MARTIN BAUMANN
SYBD 1.5	Mon	17:00–17:30	H1	Magnetic measurement techniques assisting biomedical applications of magnetic nanoparticles — ●LUTZ TRAHMS

Symposium Magnetic Nanoparticles in Biomedical Diagnostics and Therapy (SYMM)

SYMM 1.1	Thu	9:30–10:00	H1	Challenges for first-principles based computation of properties of oxide materials — ●KARSTEN ALBE
SYMM 1.2	Thu	10:00–10:30	H1	Deformation and Fracture of Solids: Tough Nuts at Atomic and Continuum Scales — ●PETER GUMBSCH, MATOUS MROVEC, KINSHUK SRIVASTAVA, DANIEL WEYGAND
SYMM 1.3	Thu	10:30–11:00	H1	Crucial Issues and Future Directions of Through-Process Modeling — ●GUENTER GOTTSTEIN
SYMM 1.4	Thu	11:00–11:30	H1	Adaptive Resolution Simulations for Soft Matter: Applications and New Developments — ●KURT KREMER
SYMM 1.5	Thu	11:30–12:00	H1	Materials by design — ●MARKUS BUEHLER

Sessions

CPP 1.1–1.13	Mon	9:30–13:30	H34	Nanoparticles and Composite Materials I
CPP 2.1–2.14	Mon	9:30–13:30	H40	Interfaces and Thin Films I (joint session with DECHEMA and VDI)
CPP 3.1–3.5	Mon	12:15–13:30	H1	Charge Transfer Effects in Molecular Materials I (joint session CPP/HL/BP/DS)
CPP 4.1–4.5	Mon	15:00–17:30	H1	SYBD: Magnetic Nanoparticles in Biomedical Diagnostics and Therapy
CPP 5.1–5.9	Mon	15:00–17:30	H34	Glasses and Glass Transition I (joint session DY/CPP)
CPP 6.1–6.7	Mon	15:00–17:30	H40	Charge Transfer Effects in Molecular Materials II (joint session CPP/HL/BP/DS)
CPP 7.1–7.6	Mon	17:15–18:45	H32	Organic Electronics and Photovoltaics I (joint session DS/CPP/HL/O)
CPP 8.1–8.16	Mon	17:30–19:30	Poster C	Poster: New Instruments and Methods
CPP 9.1–9.42	Mon	17:30–19:30	Poster C	Poster: Interfaces and Thin Films (joint session with DECHEMA and VDI)
CPP 10.1–10.8	Mon	17:30–19:30	Poster C	Poster: Charge transfer effects in molecular materials (related to symposium SYCT)
CPP 11.1–11.15	Mon	17:30–19:30	Poster C	Poster: Glasses and Glass Transition (joint session DY/CPP)
CPP 12.1–12.32	Mon	17:30–19:30	Poster C	Poster: Nanoparticles and Composite Materials
CPP 13.1–13.12	Tue	9:30–13:00	H34	Biomaterials and Biopolymers I (joint session CPP/BP)
CPP 14.1–14.13	Tue	9:30–13:00	H39	Crystallization, Nucleation and Self Assembly I
CPP 15.1–15.12	Tue	9:30–12:45	H32	Organic Electronics and Photovoltaics II (joint session DS/CPP/HL/O)
CPP 16.1–16.12	Tue	9:30–13:00	H40	Interfaces and Thin Films II (joint session with DECHEMA and VDI)
CPP 17.1–17.11	Tue	9:30–12:30	H46	Glasses II (joint session DY/DF/CPP)
CPP 18.1–18.24	Tue	18:15–20:15	Poster C	Poster: Polymer Dynamics
CPP 19.1–19.11	Tue	18:15–20:15	Poster C	Poster: Crystallization, Nucleation and Self Assembly
CPP 20.1–20.36	Tue	18:15–20:15	Poster C	Poster: Colloids and Complex Liquids
CPP 21.1–21.12	Wed	9:30–12:45	H2	Transport: Molecular Electronics (joint session TT/CPP/HL/MA)
CPP 22.1–22.11	Wed	9:30–13:00	H34	Focus: Wetting on smooth and rough surfaces: From spreading to superhydrophobicity I
CPP 23.1–23.12	Wed	9:30–13:00	H39	Polymer Dynamics
CPP 24.1–24.12	Wed	9:30–13:00	H40	Organic Semiconductors
CPP 25.1–25.11	Wed	9:30–12:45	H43	Biomaterials and Biopolymers II (joint session BP/CPP)
CPP 26.1–26.5	Wed	15:00–16:30	H34	Focus: Wetting on smooth and rough surfaces: From spreading to superhydrophobicity II

CPP 27.1–27.6	Wed	15:00–16:30	H39	Nanoparticles and Composite Materials II
CPP 28.1–28.5	Wed	15:00–16:30	H40	Crystallization, Nucleation and Self Assembly II
CPP 29.1–29.12	Wed	16:00–19:00	H33	Organic Electronics and Photovoltaics III (joint session O/CPP/DS/HL)
CPP 30.1–30.14	Wed	16:30–18:30	Poster C	Poster: Focus: Wetting on smooth and rough surfaces: From spreading to superhydrophobicity
CPP 31.1–31.22	Wed	16:30–18:30	Poster C	Poster: Organic Electronics and Photovoltaics (joint session DS/HL/O/CPP)
CPP 32.1–32.15	Wed	16:30–18:30	Poster C	Poster: Organic Semiconductors
CPP 33.1–33.15	Wed	16:30–18:30	Poster C	Poster: Charged Soft Matter
CPP 34.1–34.23	Wed	16:30–18:30	Poster C	Poster: Wetting, Micro and Nano Fluidics
CPP 35.1–35.5	Wed	16:30–18:30	Poster C	Poster: Biomaterials and Biopolymers (joint session BP/CPP)
CPP 36.1–36.8	Wed	16:30–18:30	Poster C	Poster: (Hydro)gels and Elastomers
CPP 37.1–37.2	Wed	16:30–18:30	Poster C	Poster: Focus: Van der Waals at soft matter interfaces: structure and dynamics
CPP 38.1–38.5	Thu	9:30–12:00	H1	SYMM: Computational Challenges in Scale-Bridging Modeling of Materials
CPP 39.1–39.12	Thu	9:30–13:00	H34	Organic Electronics and Photovoltaics IV (joint session CPP/HL/O/DS)
CPP 40.1–40.5	Thu	9:30–11:15	H39	Focus: Van der Waals at soft matter interfaces: structure and dynamics
CPP 41.1–41.10	Thu	9:30–13:00	H40	Colloids and Complex Liquids I
CPP 42.1–42.6	Thu	11:30–13:00	H39	New Instruments and Methods
CPP 43.1–43.13	Thu	15:00–18:45	H34	Organic Electronics and Photovoltaics V (joint session CPP/HL/O/DS)
CPP 44.1–44.12	Thu	15:00–18:45	H39	Wetting, Micro- and Nanofluidics
CPP 45.1–45.13	Thu	15:00–18:45	H40	Colloids and Complex Liquids II
CPP 46.1–46.17	Fri	9:15–13:45	H2	Photovoltaics (joint session HL/CPP/O)
CPP 47.1–47.9	Fri	9:30–12:00	H34	Charged Soft Matter
CPP 48.1–48.9	Fri	9:30–12:00	H39	(Hydro)gels and Elastomers
CPP 49.1–49.9	Fri	9:30–12:00	H40	Colloids and Complex Liquids III

Annual General Meeting of the Chemical and Polymer Physics Division

Wednesday 19:00–20:00 H34

- Report
- Discussion about DPG Fellows
- Conference 2014 (suggestions for symposia and focus sessions?)
- CPP Poster prize
- Other topics

Annual Meeting of the DECHEMA and VDI ProcessNet “Grenzflächenbestimmte Systeme und Prozesse”

Monday 19:00–20:00 PHY 5.0.21