

TIME	MONDAY 28.8.	TUESDAY 29.8.		WEDNESDAY 30.8.		THURSDAY 31.8.		FRIDAY 1.9.
		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1
		<i>chair: Peter Košovan</i>		<i>chair: Renko de Vries</i>		<i>chair: Christian Holm</i>		<i>chair: Ulrich Scheler</i>
8:30		Registration						
9:00	Allocated time for lectures Contributed: 15 + 5 min Invited: 40 + 5 min	Opening		M. Lund: Electrostatic anisotropy and proton fluctuations in amyloid forming peptides		W. Loh: Miscibility of coacervates: behavior in bulk versus in complex coacervate core micelles		A. Dahlin: Electrochemically switchable polyelectrolyte brushes
9:45		K. Procházka: History of polyelectrolyte research in Prague						C. Holm: Theory and simulations can explain the apparent ...
10:00		B. Schuler: Probing the dynamics, interactions, and phase separation of biological polyelectrolytes with single-molecule spectroscopy		H. Tran: Sequence-Controlled Peptoid Polymers		S. Lindhoud: Separation by Polyelectrolyte Complexation		F. Plamper: Electrochemical Deposition of Polyelectrolytes
10:15								C. Lopez: Poly(ionic liquids) in solution: transition between ...
10:30		Coffee		Coffee		Coffee		Coffee
		<i>chair: Ben Schuler</i>	<i>chair: Sarah Perry</i>	<i>chair: Helen Tran</i>	<i>chair: Miroslav Štěpánek</i>	<i>chair: Watson Loh</i>	<i>chair: Felix Plamper</i>	<i>chair: Andreas Dahlin</i>
11:00		Y. Levy: Optimized protein function via charged disordered regions	W. de Vos: Hot-pressed polyelectrolyte complexes as sustainable, stable and ion-selective ion exchange membranes	F. Schacher: Polydehydroalanine – a Tale about Charge, Complexation, and Coincidence	U. Scheler: Interaction of small molecules to polyelectrolytes	S. Perry: Decoupling the effects of charge density and hydrophobicity on the phase behavior and viscoelasticity of complex coacervates	J. Zhang: Surface grafted poly(ionic liquid) that lubricates in both non-polar and polar solvents	A. Ayzner: Rational Design of Intrinsically Semiconducting Coacervates
11:20			N. Malikova: Polyelectrolyte-based hydrogels: tuning structure and properties by ion specific effects and addition of charged anisotropic nanoparticles	X. Guo: Functional Spherical Polyelectrolyte Brushes: New Preparation Methods, Characterization and Applications	R. Lunkad: Both Charge-Regulation and Charge-Patch Distribution Can Drive Adsorption on the Wrong Side of the Isoelectric Point	E. Zussman: Weak PE – charged nanorod network formation and ordering under an external electric field	N. Jouault: Probing polyelectrolyte adsorption in charged nanochannels by streaming potential measurements	
11:40		B. Kayitmazer: Rheology and Thermodynamics of Hyaluronic Acid – Chitosan Complex Coacervation	S. Yang: Polyelectrolyte Complex Fibers	R. Letteri: Poly(beta-amino ester)s and their complexes: tailoring molecular structure to understand and tune solution properties and lifetime	S. Schneider: pH-dependent swelling and ionisation of weak polyelectrolyte and polyampholyte networks: A Monte Carlo study	A. Kishimura: Designer coacervates as a protein sequestration scaffold based on the strategy of the dynamic frustrated charge hotspots	M. Duan: Swelling and shrinking of two opposing polyelectrolyte brushes	Closing ceremony, awards and prizes
12:00		R. Bansil: The role of charges in the acid-induced gelation of gastric mucin.	L. Li: Preparation of natural polyelectrolyte complex membranes through sustainable aqueous phase separation	Y. Zhang: Thermal decomposition processes and mechanism of P(DAC-AM) with serial cationicity and molecular weight	M. E. Brito: Coarse-grained modeling of ionic microgels: influence of stimulus-responsive swelling on suspension properties	M. Vahdati: polysaccharide complex coacervates as multifunctional underwater adhesives	C. Drummond: Electro-responsive polyelectrolyte-coated surfaces	
12:20		C. Dannert: impact of charge on PAMAM-peptide mediated DNA condensation	K. Nijmeijer: Kosmotropes and chaotropes: Specific ion effects to tailor layer-by-layer membrane characteristics and performance	A. Zinchenko: Application of Self-Organized Interpolyelectrolyte Networks as Functional Materials: Reinforcement, Adsorption, and Templating	K. Byš: Charge regulation of heparin-mimicking polyampholytes	A. Agrawal: Manipulation of coacervate droplets with an electric field		Colour code for topical sessions: 1 Bridging the theory, simulations and experiments 2 Polyelectrolyte membranes, gels and networks 3 Polyelectrolyte theory and modeling 4 Conjugated polyelectrolytes and poly ionic liquids 5 Polyelectrolyte synthesis and characterization 6 Polyelectrolyte complexes and coacervates 7 Polyelectrolytes at interfaces 8 Acid-base equilibria in polyelectrolytes 9 Self-assembling polyelectrolyte systems 10 Biological and bio-inspired polyelectrolytes 11 Miscellaneous topics
12:40		Lunch		Lunch		Lunch		
		<i>chair: Jiang Zhao</i>	<i>chair: Martin Hrubý</i>	<i>chair: Matthias Ballauf</i>	<i>chair: Alexander Ayzner</i>	<i>chair: Rita Dias</i>	<i>chair: Saskia Lindhoud</i>	
14:15		J. Heyda: From polar monomers and polymers to polyelectrolytes: binding of weakly hydrated ions		C. Patrickios: Ionic amphiphilic polymer conetworks: simulations, thermodynamic modeling and experiment		F. L. Barroso da Silva: Computational simulation studies of macromolecular complexes driven by peculiar electrostatic interactions		
15:00		R. Staño: Coarse-grained model of interpolyelectrolyte complex for sequestration of small ions, weak acids and bases	H. Tenhu: Responsive polycations with hydrophobic counterions	A. Pich: Polyampholyte Microgels	A. Herrmann: Genetically Engineered Polyelectrolytes: From anti-icing coatings to dynamic out of equilibrium coacervates	D. Beyer: Particle-Based Simulations of Weak Polyelectrolyte Hydrogels	J. Wang: Design of functional polyelectrolyte vehicles for delivery of therapeutic biomacromolecule drugs	
15:20		J. Zhao: How do polyelectrolytes respond to shear in aqueous solutions?	Z. Cernochova: Supramolecular melittin encapsulation by tuned charge compensation with polymer carriers	E. te Brinke: Polyelectrolyte multilayer membranes: an experimental review	C. Tribet: Fluidification of a concentrated solution of IgG antibody via coacervation by short poly(glutamic acid) derivatives.	P. M. Blanco: Adsorption of flexible proteins in the 'wrong side' of the isoelectric point: Casein macropeptide as a model system	H. Kamizawa: Development of multiphase hierarchical structures via polymer condensate formation	
15:40		C. Hou: Polyelectrolyte conformation in polar and non-polar solvents	R. McBride: synthesis of high molecular weight water-soluble polymers as low-viscosity latex particles by RAFT aqueous dispersion polymerization in ...	T. Mrohs: Crosslinked, Highly Swelling Diallyldimethylammonium Hydrogels	M. Lorenza: Graphene related materials/Polyelectrolyte complexes as valuable route for the preparation of multi-functional coatings	S. Pineda: acid/base ionization of oligolysines in presence of oppositely charged polyelectrolytes	Z. Wang: origin of the entropic driving force in polyelectrolyte complex coacervation	
16:00		Coffee		Coffee		Coffee		
		<i>chair: Jan Heyda</i>	<i>chair: Andrij Pich</i>	<i>chair: Costas Patrickios</i>	<i>chair: Mariusz Uchman</i>	<i>chair: Fernando Luis Barroso da Silva</i>	<i>chair: Wiebe de Vos</i>	
16:30		J. L. Martin Robinson: Cooperative transitions involving hydrophobic polyelectrolytes	H. Buksa: Effect of added salt on synthesis of cationic nanoparticles via polymerisation-induced self-assembly in aqueous media	S. Yaltur: Applying polyelectrolyte multilayer membranes in sustainable water treatment processes	M. Ballauff: Interaction of Proteins with Polyelectrolytes: Hydration Effects	R. Dias: Charge regulation on polyelectrolyte-nanoparticle interactions	E. Zhu: Tunable Organic-Inorganic Macroion Complex Coacervates for Efficient Water Treatment	
16:50	Arrival, registration	P. Zhang: Supernatant Phase in Polyelectrolyte Complex Coacervation: Cluster Formation, Binodal, and Nucleation	J. Li: Emergence of Functional Cyclic Oligoelectrolytes from Dynamic Combinatorial Libraries	C. Wunder: 3D networking single-ion polymer electrolytes for sodium-based batteries	M. Štěpánek: Structure of a Comb Copolymer-Surfactant Coacervate Elucidated by DOSY NMR and Neutron Spin Echo Spectroscopy Measurements	D. Notarmuzi: Gas-liquid phase separation, bonding valence and charge heterogeneity	M. Müller: Water based polyelectrolyte coatings for biomedical applications studied by in-situ ATR-FTIR spectroscopy	
17:10		L. Nová: Ionization in dense weak polyelectrolyte systems	R. K. Singh: Self-assembly of Polyethyleneimine in the presence of monovalent counter-ions: a molecular dynamics investigation	R. Niestroj-Pahl: Polyelectrolyte multilayer coating of ceramic membranes and their filtration properties	A. Karim: Multiphase complex coacervate droplets from varying charge densities of polyelectrolytes	A. Gallegos: Ionization and conformation consistency in weak polyelectrolyte coacervation	A. K. Gupta: Molecular Insights into the structural and dynamics of anionic polyelectrolytes in salt solutions - An atomistic simulation study	
17:30		C. Strauch: Ionisation and swelling behaviour of weak polyampholyte core-shell networks – a Monte Carlo study	J. Sabadini: Can PEO-coacervates micelles undergo structural changes as EO-surfactants aggregates?	L. Tea: Viscosity and morphology of water-in-water emulsions stabilized by polyelectrolyte under shear	Y. Hong: Hydrophobicity-driven reentrant behaviors of arginine-rich coacervates and quantitative analysis via label-free 3D phase imaging		T. Alexiou: Effective interactions between double-stranded DNA molecules in aqueous electrolyte solutions: effects of molecular architecture and ...	
17:50		G. Chen: A new scaling theory for semidilute polyelectrolyte solutions		17:50 - 19:30 Poster Session Posters: A0, portrait (841 mm x 1189 mm width x height)				
	18:00 - 20:00 Welcome party					19:00 - 22:00 Social Dinner		