

## Monday, 27 August 2018

19:00 - 20:30 Registration & Poster hanging / **Welcome Reception**

## Tuesday, 28 August 2018

<b>Opening Ceremony</b>		<b>Lecture room: Ir. Haakzaal</b>			
08:45 - 08:50	Welcome by <i>Renko de Vries</i> - chair ISP2018, Wageningen University & Research				
08:50 - 09:00	Opening by <i>Raymond Farinato</i> , International Organizing Committee ISP				
09:00 - 10:50	<b>Plenary Session 1</b>	<b>Polyelectrolytes and coacervation in cell biology</b>	<b>Lecture room: Ir. Haakzaal</b>		
	<b>Chairperson: Evan Spruijt</b>				
09:00 - 09:50	C.D. Keating	Compartmentalization of biomolecules and reactions by phase coexistence in polyelectrolyte solutions			
09:50 - 10:20	S.L. Perry	Molecular design of polyelectrolyte complex materials			
10:20 - 10:50	T.J. Nott	Emergent properties of model membraneless organelles			
10:50 - 11:20	<b>Coffee break</b>				
11:20 - 12:20	<b>Plenary Session 2</b>	<b>Polyelectrolytes membranes</b>	<b>Lecture room: Ir. Haakzaal</b>		
	<b>Chairperson: Wiebe de Vos</b>				
11:20 - 11:50	I.F.J. Vankelecom	Use of polyelectrolyte complexes in membrane separations			
11:50 - 12:20	J. De Groot	Design strategies for polyelectrolyte multilayer membranes in water			
12:25 - 13:45	<b>Lunch</b>				
<b>Parallel Sessions</b> 13:50 - 15:10	<b>Session 2</b>	<b>Polyelectrolytes membranes</b>	<b>Session 3</b>	<b>Polyelectrolyte complexes and adhesion (special session organized by EU ITN "BioSmartTrainee")</b>	
	<b>Lecture room:</b>	Kleine Veerzaal	<b>Lecture room:</b>	Ir. Haakzaal	
	<b>Chairperson:</b>	<b>Louis de Smet</b>	<b>Chairperson:</b>	<b>Marleen Kamperman</b>	
	13:50 - 14:10	B. Chatillon	Multi-layered nanofiltration (NF) membranes: a new opportunity for wastewater reuse	U. Sidoli	Bio-inspired polymeric surfaces with controllable underwater adhesion properties
	14:10 - 14:30	W.M. Nielen	Membrane production from weak polyelectrolytes through aqueous phase separation	M. Dompé	A novel bioinspired underwater adhesive using complex coacervation - a systematic study
14:30 - 14:50	K. Remmen	Layer-by-layer modified membranes for resource recovery from sewage sludge	J. Tavera	Tuning adhesive properties of solvent-borne PSAs with ionic crosslinks	
14:50 - 15:10	E. Te Brinke	Asymmetric polyelectrolyte multilayer membranes for micropollutant removal	H. Birkedal	Bioinspired catechol-functionalized polyelectrolyte systems	
			<b>14:50 - 15:20</b>		

## Tuesday, 28 August 2018

15:20 - 16:50 **Coffee break + Session 10: Poster session**

16:50 - 18:30 **Plenary Session 4 Polyelectrolyte theory/modeling** **Lecture room: Ir. Haakzaal**  
**Chairperson: Charles Sing**

16:50 - 17:10 M. Skepö Structure, thermodynamics, and dynamics of intrinsically disordered proteins  
 17:10 - 17:30 A.D. Glova How to fold back grafted chains in dipolar brushes  
 17:30 - 18:00 F. Léonforte Single-chain-in-mean-field simulations of smart, multi-responsive, polymer-grafted surfaces  
 18:00 - 18:50 M. Rubinstein Coacervates of oppositely charged polyelectrolytes

## Wednesday, 29 August 2018

09:00 - 10:50 **Plenary Session 5 Conjugated polyelectrolytes & poly(ionic liquids)** **Lecture room: Ir. Haakzaal**  
**Chairperson: Jasper Van der Gucht**

09:00 - 09:20 A.L. Ayzner Understanding energy transfer and thermodynamics of conjugated polyelectrolyte complexes  
 09:20 - 09:50 J. Sprakel PolyelectroLights: conjugated polyelectrolytes as molecular sensors in electrostatic assembly  
 09:50 - 10:20 C. Detrembleur Multifunctional poly(ionic liquid)s: from precision synthesis to applications in energy  
 10:20 - 10:50 U. Scherf Conjugated polyelectrolytes - synthesis and structure formation

10:50 - 11:20 **Coffee break**

<b>Parallel Sessions</b>	<b>Session 4 Polyelectrolyte theory/modeling</b>	<b>Session 6 Polyelectrolyte synthesis and characterization</b>
	<b>Lecture room:</b> Ir. Haakzaal	<b>Lecture room:</b> Kleine Veerzaal
	<b>Chairperson:</b> <b>Katya Zhulina</b>	<b>Chairperson:</b> <b>Joris Sprakel</b>
11:20 - 11:40	E.Y. Kramarenko Counterion specificity in the conformational behavior of ion-containing polymers	M. Müller On-demand bone healing drug release from thermoresponsive polyelectrolyte complex particle coatings
11:40 - 12:00	J. Landsgesell Poisson-Boltzmann cell model for swelling of macroscopic polymer gels	I. Perevyazko Linear poly(ethylene imine)s: true molar masses, solution properties and conformation
12:00 - 12:20	S. Buyukdagli Optimizing polymer translocation by using electrostatic many-body effects	C. Chassenieux Hydrogels based on self-assembled amphiphilic block and grafted copolyelectrolytes
12:20 - 12:40	R.S. Dias Nanoparticle-polyelectrolyte interactions in pH-sensitive systems	A.D. Filippov Metal-ligand interactions tune multi-timescale relaxation of polyelectrolyte complexes

## Wednesday, 29 August 2018

12:40 - 14:00 <b>Lunch</b>					
Parallel Sessions 14:00 - 15:20	<b>Session 4</b>	<b>Polyelectrolyte theory/modeling</b>	<b>Session 7</b>	<b>Polyelectrolyte complexes and coacervates</b>	
	<b>Lecture room:</b>	Ir. Haakzaal	<b>Lecture room:</b>	Kleine Veerzaal	
	<b>Chairperson:</b>	<b>Peter Košovan</b>	<b>Chairperson:</b>	<b>Ilja Voets</b>	
	14:00 - 14:20	C. Holm	Static and dynamical properties of weak polyelectrolytes and nanogels in salty solutions	J. Wang	Functional polyelectrolytes coacervation and complexes
	14:20 - 14:40	R.J. Nap	Effect of calcium ions on structure and interactions of end-tethered weak polyelectrolytes	J.J. Van Lente	Separating protein mixtures via polyelectrolyte complexes
14:40 - 15:00	A.M. Rumyantsev	Theory of structure and polymorphism of complex coacervate core micelles	M.J. Lueckheide	Multimodal characterization of oligonucleotide-polyelectrolyte complex micelles	
15:00 - 15:20			F. Gröhn	Tuning structure and function of polyelectrolyte-multivalent counterion assemblies	
15:20 - 16:50 <b>Coffee break + Session 10: Poster session</b>					
16:50 - 18:30	<b>Plenary Session 8</b>	<b>Polyelectrolyte complexes at interfaces</b>	<b>Lecture room:</b> Ir. Haakzaal		
	<b>Chairperson:</b>	<b>Philipp Erni</b>			
16:50 - 17:10	F.J. Cedano-Serrano	From molecular electrostatic interactions to macroscopic underwater adherence			
17:10 - 17:40	U. Scheler	Charge, packing and local mobility in polyelectrolyte complex coacervates and multilayers			
17:40 - 18:30	R.J. Stewart	Marine sandcastle worm-inspired medical adhesives based on condensed polyelectrolytes			

## Thursday, 30 August 2018

09:00 - 10:30	<b>Plenary Session 9 Biological and biohybrid polyelectrolytes</b>		<b>Lecture room: Ir. Haakzaal</b>	
	<b>Chairperson: Roy Beck</b>			
09:00 - 09:30	K. Liu	Stimuli-responsive liquid crystals from DNA and supercharged polypeptides		
09:30 - 10:00	T. Weil	Merging polymer synthesis and DNA nanotechnology to address challenges in materials and biomedicine		
10:00 - 10:30	M.A. Kostianinen	Electrostatic self-assembly of soft matter nanoparticle co-crystals		
10:30 - 11:00	<b>Coffee break</b>			
<b>Parallel Sessions</b>	<b>Session 9</b>	<b>Biological and biohybrid polyelectrolytes</b>	<b>Session 7</b>	<b>Polyelectrolyte complexes and coacervates</b>
	<b>Lecture room:</b> Kleine Veerzaal		<b>Lecture room:</b> Ir. Haakzaal	
11:00 - 12:20	<b>Chairperson:</b> Mauri Kostianinen		<b>Chairperson:</b> Saskia Lindhoud	
11:00 - 11:20	A. VanderStraeten	Protein-polyelectrolyte complexes to improve the biological activity of proteins at interfaces	C.C.M. Sproncken	PVA-based complex coacervate core micelles for ice recrystallization inhibition
11:20 - 11:40	C. Ma	Genetically engineered supercharged protein fluids: fast and persistent self-ordering induced by touch	A. Murmiliuk	Two names for one quantity: local pH and effective pK
11:40 - 12:00	S.I. Innes-Gold	Magnetic tweezers studies of hyaluronic acid interactions with trivalent cations	M. Boas	pH responsive polyelectrolyte-complex fibers
12:00 - 12:20	I.L. Morgan	Neurofilament sidearm cross-bridges exhibit slow complexation dynamics	P. Košovan	Star-like weak polyelectrolyte with hydrophobic counterions: counterion-induced ionization, core-shell structure formation and gelation
12:20 - 13:45	<b>Lunch</b>			
14:00	<b>Conference excursion to Kröller-Müller Museum, Otterlo</b>			
18:00	<b>Busses to WICC, Wageningen</b>			
20:00 - 22:00	<b>Conference Dinner at WICC, Wageningen</b>			

## Friday, 31 August 2018

09:00 - 10:30	<b>Plenary Session 4</b>	<b>Polyelectrolyte theory/modeling</b>	<b>Lecture room: Ir. Haakzaal</b>
	<b>Chairperson: Frans Leermakers</b>		
09:00 - 09:30	E.B. Zhulina	Polydisperse Ionized Polymer Brushes	
09:30 - 10:00	C.E. Sing	Tuning complex coacervates via the precise placement of molecular	
10:00 - 10:30	T. Odijk	A Bjerrum type theory for coacervation	
10:30 - 11:00	<b>Coffee break</b>		
11:00 - 12:20	<b>Plenary Session 7</b>	<b>Polyelectrolyte complexes and coacervates</b>	<b>Lecture room: Ir. Haakzaal</b>
	<b>Chairperson: Sarah Perry</b>		
11:00 - 11:20	H. Wu	Non-equilibrium phenomena in self-assembled polyelectrolyte	
11:20 - 11:50	P. Erni	Coacervate-based delivery systems for low molecular weight payloads	
11:50 - 12:20	R. Beck	Mind the gap: polyampholytes meet the neuronal skeleton	
12:20 - 14:00	<b>Closing remarks and lunch</b>		