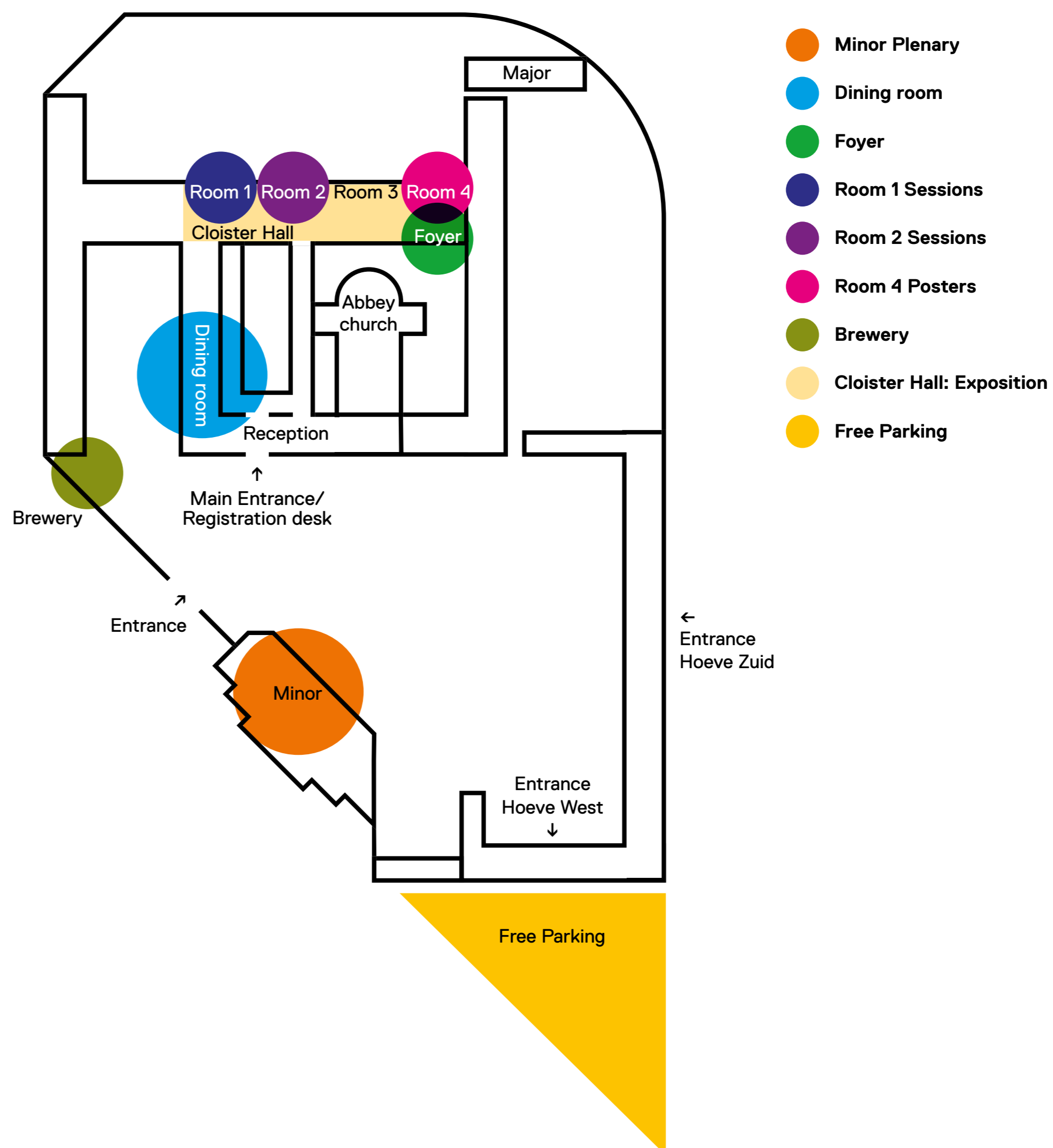


Program

Brightlands Rolduc Polymer Conference

Innovative Polymer Materials for Future Health



Monday

September 9

09:00 - 17:30	Registration desk open	
10:45 - 11:00	Welcome by Marnix van Gorp, Chair of the Brightlands Rolduc Polymer Conference	
11:00 - 11:40	Dr. Jeff Carbeck, 10EGS Bringing new implanted medical devices enabled by polymers to market – it's harder, and easier, than you think	Invited Speakers
11:40 - 12:20	Dr. Anne Ritter, Evonik, Materials and Technologies for Personalized Medicine	Invited Speakers
12:20 - 13:30	Lunch	Dining room
Polymers for personal care, devices, hygiene and packaging		
13:30 - 14:05	Dr. Jerome Vachon, SABIC Extractables tests on thermoplastics for Healthcare and behavior upon gamma-sterilization.	
14:10 - 14:30	Dr. Theun Sweere, Culgi B.V. Virtual chemistry lab: Designing improved materials using state-of-the-art computational chemistry simulations.	
14:35 - 14:55	Dr. Nadia Grossiord, SABIC Smart stimuli-responsive liquid crystal polymer coatings for smart windows and sensors.	
15:00 - 15:30	Break	Foyer
Polymers for personal care, devices, hygiene and packaging		
15:30 - 16:05	Prof. Enrico Dalcanale, University of Parma Self-diagnostic composites.	
16:10 - 16:30	Mr. Subhransu Sekhar Mohapatra, SABIC Healthcare Grade Polymer Data Validation to Enable Innovative Application Development.	
16:35 - 16:55	Dr. Sarah van Mierlo, SABIC Solutions to prevent physical and chemical changes of polypropylenes upon sterilization with gamma and ebeam irradiation.	
17:00 - 17:30	Break	Foyer
Polymers for personal care, devices, hygiene and packaging		
17:30 - 18:05	Dr. Maarten Smuiders, RWTH Aachen University Polymers for personal care, devices, hygiene and packaging. A story of romance: antifouling, functional zwitterionic polymer brushes on flat surfaces and beads.	
18:10 - 18:30	Ing. John Krist, SABIC Polyolefin foam materials in medical, healthcare and injury-preventing applications; the scientific link between polymer building blocks and the performance of their foamed 'species'.	
19:00 - 20:30	Dinner	
20:30 - 23:00	Posters & Drinks	

Tuesday

September 10

08:00 - 10:00	Registration desk open	
Biobased and biodegradable polymers		
09:00 - 09:35	Dr. Miguel Oliveira, University of Minho Novel bioinks for biofabrication of patient-specific and memory-shape implants.	
09:40 - 10:00	Geert Noordzij, Maastricht University/AMIBM Towards the first high-performance, semi-crystalline polyesters based on bis-pyrrolidones obtained from renewable itaconic acid.	
10:05 - 10:25		
10:30 - 11:00	Break	Foyer
Biobased and biodegradable polymers		
11:00 - 11:35	Prof. Sonja Herres Pawlis, RWTH Aachen University New kids in lactone polymerization: highly active and robust iron and zinc guanidine complexes as superior catalysts.	
11:40 - 12:00	Dr. Alicia Fernández Colino, RWTH Aachen University/AME Biohybrid small caliber vascular grafts with tunable compliance and off-the shelf availability.	
12:05 - 12:25	Dr. Zahra Mazloomi, Chimieparistech Institute Tandem Synthesis of Biodegradable Camphoric-based Polyesters and their Chemical Functionalizations.	
12:30 - 13:30	Lunch	Dining room
Polymers for personal care, devices, hygiene and packaging		
13:30 - 14:05	Dr. Christian Pommereau, SANOFI challenges for polymers used in injection systems.	
14:10 - 14:45	Dr. Dimitri Ivanov, Institut de Sciences des Matériaux de Mulhouse Advanced In-Operando Synchrotron-Based Tools for Studies of Micro-structure, Thermal Transitions and Mechanical Behavior of Polymers.	
14:50 - 15:30	Break	Foyer
Polymers for personal care, devices, hygiene and packaging		
15:30 - 16:05	Dr. Meredith Wiseman, DSM Model Silicone Hydrogels: Morphology and Oxygen Permeability.	
16:10 - 16:30	Cecile Balloffet, Clariant Plastics & Coatings How will new key regulations impact your materials cocktail for packaging & medical devices?	
16:35 - 16:55	Mr. Alexander Töpel, Eindhoven University of Technology Printing of Microgel Arrays for Regulation of Cell Motility and Adhesion.	
17:00 - 17:30	Break	Foyer
Polymers for personal care, devices, hygiene and packaging		
17:30 - 18:05	Dr. Samuel Hudson Decontaminating Chitosan with a Non-Thermal Nitrogen Plasma to Enable Chitosan's Use as a Surgically Implantable Hemostatic Agent.	
18:10 - 18:30	Suzanne Braun, Slovak University of Technology Bratislava Synthesis of temperature- and pH-responsive microgels and their incorporation into electrospun PLA-fibres.	
18:45 - 19:45	Guided Tour to the Rolduc Brewery / Guided Tour in the Abbey	
20:00 - 22:00	Conference dinner & awards ceremony	
Polymers for drug delivery and diagnostics		
	Dr. George Mihov, DSM Polyesteramides – biomaterials inspired by the challenges in ophthalmic drug delivery.	
	Dr. Albert Poortinga, University of Groningen Controlled release of drugs using a new kind of encapsulant material: gas.	
	Dr. Cornelius van Nostrum Utrecht University Photosensitizers Encapsulated in Polymeric Micelles for PDT: Opportunities and Challenges.	
Polymers for drug delivery and diagnostics		
	Prof. Christine Jerome, University of Liège Polyporphoesters: a flexible platform for the design of particulate drug delivery systems.	
	Dr. HT Le Duc, Maastricht University/MERLN Co-assembly of diblock and monoblock elastin-like biolypeptides for preparation of micellar drug delivery carriers.	
	Dr. Yashoda Chandorkar, RWTH Aachen University Cells feel the beat.	
Polymers for drug delivery and diagnostics		
	Prof. Andreas Heise, RCSI Ireland Star-shaped polypeptides as efficient gene delivery platform materials in scaffold guided bone regeneration. Polymers for drug delivery and diagnostics.	
	Prof. Louis Pitet, Wageningen University Tough Hydrogels for Applications in Tissue Engineering.	
Biobased and biodegradable polymers		
	Prof. Bart Goderis, Eindhoven University of Technology An infusion method for encapsulating lipophilic components into V-type granular cold-water swelling starch.	
	Christian van Slagmaat, Maastricht University/AMIBM Life Cycle Assessment of the solvent free Shvo-catalyzed hydrogenation of levulinic acid to γ -valerolactone.	
	Anna M.J. Coenen, Maastricht University/AMIBM Designing a biobased, elastin inspired polymer-peptide hybrid for tissue-engineering applications.	
Biobased and biodegradable polymers		
	Prof. Viera Khunova, BRNO University of Technology Biodegradable PCL/Gel nanofibers for tissue engineering: effect of halloyste on physical and biological properties.	
	Ir. Boris Arts, Utrecht University Controlling Blood Coagulation in Supramolecular Vascular Access Grafts via Feedback-Response Mechanisms.	

Wednesday

September 11

08:30 - 12:00	Registration desk open	
Biobased and biodegradable polymers		
09:00 - 09:35	Prof. Rolf Mulhaupt, Freiburg Materials Research Centre Bio-based non-isocyanate poly-hydroxyurethanes and carbohydrate-inspired materials tailored for 3D/4D-printing and health care applications.	
09:40 - 10:00	Dr. Yvonne van der Meer, RWTH Aachen University Analyzing the sustainability impact of bio-based materials from a life-cycle perspective.	
10:05 - 10:25	Prof. Ioannis Zuburtikudis, KU Leuven Biopolymer Nanocomposites for the Health & Wellness Industries.	
10:30 - 11:00	Break	Foyer
Biobased and biodegradable polymers		
11:00 - 11:35	Prof. Lorenzo Moroni, Maastricht University Additive Manufacturing or bioprinting? Where Materials and Biology complexity meet.	
11:40 - 12:00	Ir. Gijs de Kort, Abu Dhabi University Understanding blends of thermotropic LCP's.	
12:05 - 12:25	Mrs. Manta Roy, Maastricht University/AMIBM Enzymatically depolymerizable thermosets based on renewable bis(pyrrolidone) dicarboxylic acids with bis(2-oxazoline)s: A potential route towards chemical recycling.	
12:30 - 13:30	Lunch	Dining room
Plenary session		
13:30 - 14:10	Prof. Robert Grubbs, Caltech Synthesis of polymers with well defined structures.	Invited Speakers
14:10 - 14:20	Conclusion by Marnix van Gorp, Chair Brightlands Rolduc Polymer Conference	
14:20 - 15:00	Farewell drinks	
16:00 - 17:00	Optional visit to the Brightlands Chemelot Campus	

There will be a speakerscorner during the sessions

- Invited Speakers
- Extended lectures