

MONDAY - 11 <sup>th</sup> August			
11h30 – 13h45	Registration		
13h45 – 14h00	Welcome remarks - Chris Bowman & Filip Du Prez		
	Plenary session - Chair: Chris Bowman		
14h00 – 14h40	<b>Stuart Rowan</b> (University of Chicago, USA) <i>Dynamic Networks as a Route to Access Pluripotent Materials</i>		
14h40 – 15h20	Coffee break		
	Session 1.1 (Chair: Tao Xie)	Session 1.2 (Chair: John Torkelson)	Session 1.3 (Chair: Julia Kalow)
15h20 – 15h45	<b>Philip Taynton</b> (Mallinda Inc., USA) Lessons learned: Commercial Development of Imine-linked Vitrimers	<b>Christoph Weder</b> (Univ. Fribourg, Switzerland) Stimuli-Responsive Polymers Based on Dynamic Bonds	<b>Rigoberto Advincula</b> (Univ. Tennessee, USA) 3D/4D Printing of Smart Network Materials with AI/ML Directed Properties
15h45– 16h00	<b>Jonas Debuyck</b> (Ghent University, Belgium) Low-Viscosity, Dynamic Amidoamine Hardeners with Tunable Curing Kinetics for Epoxy Adhesives	<b>Jonas Grün</b> (University of Jena, Germany) Reversible Electrostatically Crosslinked Networks from Star-Shaped Block Copolymers	<b>Tao Zhang</b> (Univ. Groningen, Netherlands) Dynamic Covalent Polymers for Stimuli-Responsive 4D Printing
16h00 – 16h15	<b>Xavier Montané</b> (University Rovira i Virgili, Spain) Exploring the Role of Rare-Earth Triflates as Catalysts in Modulating the Stress Relaxation and Creep Behavior of Poly(epoxy imine) Vitrimers	<b>Georges Formon</b> (Univ Fribourg, Switzerland) Expanding Supramolecular Polymers from Synthesis to Responsiveness	<b>Célia Ziane</b> (LIST, Luxembourg) Formulation and 3D Printing of High-Performance Epoxy-Amine Vitrimers
16h15 – 16h30	<b>Salomé Luce</b> (ESPCI Paris, France) Dynamic Silyl Ether Linkages for Advanced Material Design	<b>Maximilian Hagemann</b> (Aalto University, Finland) High-Performance Supramolecular Materials	<b>Armando Escribá-Flores</b> (Uni. Rovira i Virgili, ES) Advanced Co-Network Design and Properties of Dual-Cured Vitrimeric Acrylic/Epoxy Systems for 3D VAT Photopolymerization
16h30 – 16h55	<b>Wei Zhang</b> (University of Colorado Boulder, USA) Dynamic Polymer Networks with Closed-loop Recyclability Enabled by Dynamic Covalent Chemistry	<b>Enrico Dalcanale</b> (University of Parma, Italy) Non-covalent DPN: challenges and opportunities	<b>Katarina Ehrmann</b> (TU Wien, Austria) New Concepts for 3D Printing Dynamic Polymer Networks
17h00 – 19h00	Poster session with drinks and snacks		

TUESDAY - 12 <sup>th</sup> August			
	Plenary session - Chair: Filip Du Prez		
08h45 – 09h25	<b>Kristi Anseth</b> (University of Colorado Boulder, USA) <i>Photoadaptable Hydrogels for Biological Applications</i>		
	Session 2.1 (Chair: Hannes Houck)	Session 2.2 (Chair: Svetlana Sukhishvili)	Session 2.3 (Chair: Katarina Ehrmann)
09h30 – 09h55	<b>Filip Du Prez</b> (Ghent University, Belgium) How to Unlock the Industrial Potential of Reprocessable Thermosets through Dynamic Covalent Chemistry?	<b>Melissa Grunlan</b> (Texas A&M University, USA) Cartilage Mimetic Substitutes Prepared from Dynamic Hydrogels	<b>Marco Sangermano</b> (Politecnico di Torino, Italy) Sustainable Bio-based UV-cured Dynamic Polymer Networks
09h55 – 10h10	<b>Matheus Nachbar</b> (IMP, INSA Lyon, France) Exploring the Impact of Catalyst Nature on the Properties of PET-based CANs derived from Textiles	<b>Martin Hrubý</b> (Univ. Prague, Czech Republic) Dynamic Polymer Networks at the Nanoscale: Metal Coordination and Ionic Interactions for Biomedicine	<b>Charles Jehl</b> (LIST, Luxembourg) A Recyclable, Reshapable and UV-Curable Polybenzoxazine Vitrimer Enabling Closed-loop 3D Printing Applications
10h10 – 10h25	<b>Bram Daelman</b> (Ghent University, Belgium) Exploiting the Reversible Ring-Opening Reaction of Lactones to Develop Dynamic Polyamide Networks	<b>Abdon Pena-Francesch</b> (Univ. Michigan, USA) Self-Assembled Dynamic Networks from Bioinspired Protein Materials	<b>Edoardo Albertini</b> (Politecnico di Torino, Italy) Vitrimers Based on Epoxidized Cardanol Resin and Cystamine for 3D Printing Applications
10h25 – 10h55	Coffee break		
	Session 3.1 (Chair: Stuart Rowan)	Session 3.2 (Chair: Jean-Marie Raquez)	Session 3.3 (Chair: Sandra Schlögl)
10h55 – 11h20	<b>Renaud Nicolaÿ</b> (ESPCI, France) From Phase Separation to Nitrene Chemistry: Some Recent Advances in the Design of Dynamic Polymer Networks by Reactive Processing	<b>Hans Heuts</b> (TU Eindhoven, Netherlands) Tuning the Properties of Dynamic Polymer Networks using Catalyst-free Trans-reactions	<b>Audrey Llevot</b> (LCPO Bordeaux, France) Exploiting the Reversible Dimerization of N-Heterocyclic Carbenes to Access DPN with an Organocatalytic Activity
11h20 – 11h35	<b>Daniel Schmidt</b> (LIST, Luxemburg) Fundamentals of Transesterification in Epoxy Vitrimers	<b>Stephan Maes</b> (Ghent University, Belgium) Exploring Sulfonyl-Containing Motifs in Covalent Adaptable Networks	<b>Matthias Udo Mayer-Kriehuber</b> (Leoben, Austria) Unlocking the Future of Covalent Adaptable Networks: Thermally Latent Catalysts with Tailored Activation and Deactivation Temperatures
11h35 – 11h50	<b>Sasan Moradi</b> (U. Politècnica Catalunya, Spain) Development of Recyclable Thermally Conductive Vitrimers through Engineered Sequential Stress-Relaxation Dynamics	<b>Tinatin Kouprava</b> (LIST, Luxemburg) Selective Chemical Recycling of Polybenzoxazine Vitrimer-Based Flexible Electronics	<b>Christoph Schmidleitner</b> (Leoben, Austria) Frontal Polymerization of Thiol–Acrylate Covalent Adaptable Networks
11h50 – 12h05	<b>Loc Tan Nguyen</b> (Ghent University, Belgium) Dynamic Covalent Chemistry using $\beta$ -Amino Amides for Robust, Recyclable Covalent Adaptable Networks	<b>Hang Zhang</b> (Aalto University, Finland) Interpenetrating Network Hydrogels: from Trainable Responses to Feedback-Controlled Dynamic Soft Devices	<b>Devon Shipp</b> (Clarkson University, USA) Dynamic Networks Based on Poly(Methacrylic Anhydride) and its Copolymers
12h05 – 12h30	<b>Chris Bowman</b> (Univ. Colorado Boulder, USA) Dual Cure Approaches Involving Dynamic Covalent Chemistry	<b>Pierre Verge</b> (LIST, Luxemburg) Polybenzoxazine-based Vitrimers : from Chemistry to Applications	<b>Allan Guymon</b> (Brigham Young Univ., USA) Controlled Radical Photopolymerization and Photoinitiation to Direct CAN Structure
12h30 – 13h30	Lunch**		
14h00 - 20h00	Excursion		
**	1/2h discussion with invited/plenary speakers (room to be announced)		

WEDNESDAY - 13 <sup>th</sup> August			
	Plenary session - Chair: Kristi Anseth		
09h00 – 09h40	<b>Julia Kalow</b> (Northwestern University, USA) <i>Defect Engineering in Covalent Adaptable Networks</i>		
	Session 4.1 (Chair: William Dichtel)	Session 4.2 (Chair: Philip Taynton)	Session 4.3 (Chair: Pierre Verge)
09h45 – 10h10	<b>Pengfei Cao</b> (Beijing Univ., China) Dynamic Crosslinked Elastomers with High Mechanical Robustness and Tunable Recyclability	<b>Maarten Smulders</b> (Wageningen Univ., NL) Design of Macroscopic Properties of Polyimine Networks by Molecular and Mesoscale Control	<b>Jean-Marie Raquez</b> (Univ. Mons & Montreal) Developing Non-isocyanate Polyurethane Chemistry as Sustainable Covalent Adaptive Networks for Structural Composites
10h10 – 10h25	<b>Mickaël Du Fraysseix</b> (LCPO Bordeaux, France) Synthesis of Aliphatic Imine-based Self-healing Poly(dimethylsiloxane) and their Stability in Simulated Space Environment	<b>Jessica Mangialetto</b> (VUB, Belgium) Cure Diagrams as Tools for Understanding Thermoreversible Diels-Alder Networks	<b>Killian Bourdon</b> (LIST, Luxemburg) Fibre-Matrix Interactions in Carbon and Flax Fibre Reinforced Transesterification-Based Vitrimers
10h25 – 10h40	<b>Adrià Roig</b> (Ghent University, Belgium) Exploring $\beta$ -Amino Ester Chemistry for the Recycling of Epoxy and Polyurethane Materials	<b>Lucien Cousin</b> (ETH Zurich, Switzerland) Entropy Links Molecular and Macroscopic Behavior in Dynamic Covalent Networks	<b>Anthony Hoogmartens</b> (EPFL, Switzerland) Novel Initiator-Free Reprocessable Acrylate-Thermoplastic Composites with Enhanced Interfacial Interactions and Relaxation Behavior
10h40 – 10h55	<b>Erica Laguzzi</b> (Univ. Piemonte Orientale, Italy) Aza-Michael Magic: Engineering Reprocessable Polymers with $\beta$ -amino Esters	<b>Emilie Moses</b> (Univ. North Carolina, USA) Dynamically Tuning the Kuhn Length to Expand Property Control of Polymer Networks	<b>Channya Hesse</b> (LIST, Luxemburg) Optimizing the Chemical Recycling of Vitrimers: Effects of Acidolysis on Polybenzoxazine Vitrimers
10h55 – 11h25	Coffee break		
	Session 5.1 (Chair: Pengfei Cao)	Session 5.2 (Chair: Maarten Smulders)	Session 5.3 (Chair: Jacob Lessard)
11h25 – 11h50	<b>Huaping Xu</b> (Tsinghua University, China) Dynamic Selenium/Tellurium-Containing Polymers	<b>Hannes Houck</b> (University of Warwick, UK) Turning Conventional Photodimers into Reversible Bonding Motifs for Closed-loop Material Recycling	<b>Katrien Bernaerts</b> (Maastricht University, NL) From Lignin Derived Building Blocks to Covalent Adaptable Networks and Recyclable Materials
11h50 – 12h05	<b>Xiangqiang Pan</b> (Soochow University, China) Dynamic Polymer Networks Based on Selenonium Salt	<b>Swadhin Chakraborty</b> (IIT Kharagpur, India) Dynamic Network in Polymers Based on Electrophilic-Substitution Chemistry	<b>Claudio Pellecchia</b> (Univ. Salerno, Italy) Bio-based Vitrimeric Thermosets from Polylactide and Isosorbide Diepoxide
12h05 – 12h20	<b>Jeremy Wulff</b> (University of Victoria, Canada) Do Dynamic Linkages in Diazirine Reagents Drive Polymer Compatibilization?	<b>Alper Balkan</b> (EPFL, Switzerland) Cinnamate-Based Photo-Curable Thiol-Ene/Nanocellulose Composite Coatings	<b>Marlies Thys</b> (VITO, Belgium) Dynamic Epoxy-Acrylate Networks from Recycled and Biobased Building Blocks
12h20 – 12h35	<b>Maciek Kopeć</b> (University of Bath, UK) Lipoic Acid vs DOT as Cleavable Comonomers for Degradable and Reversible Polyacrylate Networks	<b>Jonathan Jayaratnam</b> (ESPCI, France) Influence of Dynamic Chemistry on Self-Patterning	<b>Mikelis Kirpluks</b> (LSIWC, Latvia) Bio-Based $\beta$ -Amino Polyester Vitrimers: A Sustainable and Recyclable Adhesive for Fibreboard Production
12h35 – 12h50	<b>Benjamin Nelson</b> (Univ. Colorado Boulder, USA) Multifunctional Dithiolane Monomers for Dynamic and Recyclable Networks	<b>Yizheng Tan</b> (Jiangnan University, China) Light-Induced Modular programming method for multiple substrates	<b>Agate Levron</b> (ICG Montpellier, France) Fluorinated Tertiary N,O-acetals: a Catalyst-free Exchange Platform for Bio-based CANs Applications
12h50 – 13h50	Lunch		
	Session 6.1 (Chair: Joost Brancart)	Session 6.2 (Chair: Audrey Llevot)	Session 6.3 (Chair: Hans Heuts)
13h50 – 14h15	<b>Zhibin Guan</b> (University of California, Irvine, USA) Sustainable Polymer Designs via Robust Dynamic Covalent Chemistry	<b>Marc Guerre</b> (CNRS Toulouse, France) Disulfide-based Vitrimers: from Mechanistic Insight to Industrial Implementation	<b>Jacob Lessard</b> (University of Utah, USA) Architectural Effects in Associative Covalent Adaptable Networks
14h15 – 14h30	<b>Jaclyn McLaughlin</b> (Rowan University, USA) Design of Vinyl Ester Precursors to Fabricate Tunable Imine-Based Covalent Adaptable Networks	<b>Valeria Berner</b> (Fraunhofer ICT, Germany) Thermal and Flame Retardant Properties of Recyclable Disulfide Based Epoxy Vitrimers	<b>To be announce</b> (Anton Paar, Germany) <i>Molecular changes meet macroscopic flow: Novel polymer insights by in situ Raman analysis in Rheology</i>
14h30 – 14h45	<b>Igor Luzinov</b> (Clemson University, USA) Chemically Recyclable Polyolefin-based Covalent Adaptable Networks	<b>Paula Fanlo</b> (CIDETEC / POLYMAT, Spain) Dynamic by Design: Unlocking Full Relaxation in Disulfide Epoxy Networks	<b>Pascal Carrière</b> (Université de Toulon, France) Applications of Spectroscopies to Reveal Complex Relaxations of Aromatic Disulfide Networks

14h45 – 15h00	<b>Molly Sun</b> (Northwestern University, USA) Reprocessing Thermoset Polyurethane through Twin-Screw Extrusion and Green Catalysis	<b>Zviadi Katcharava</b> (Univ. Halle-Wittenberg, DE) Pyrrolidinium-based Poly(ionic liquid) Vitrimers for Self-healing and Re-processable Electrolytes	<b>Andreas Klingler</b> (Leibniz-IWT, Germany) Simultaneous Insights into the Dynamic Thermal Volume Expansion and Shear Relaxation Behaviour of Dynamic Polymer Networks
15h00 – 15h15	<b>Víctor Lechuga-Islas</b> (Univ. Liege, Belgium) Foam-to-Adhesive Recycling of Self-Blown Non-Isocyanate Polyurethane Foams Incorporating Disulfide Covalent Adaptable Networks	<b>Josiah Marshall</b> (University North Carolina, USA)) Bottlebrush-Templated Percolation of P3HT toward Soft Electronics	<b>Nathan Arnould</b> (CNRS Montpellier, France) Reversible Classical Lewis Pair Adduct Formation for the Control of Vinylogous Urethane Transamination
15h15 – 15h40	<b>William Dichtel</b> (Northwestern University, USA) Reprocessing Thermoset Polyurethane Foams Using Organic Catalysts	<b>Wolfgang Binder</b> (U. Halle-Wittenberg, Germany) Dynamic Polymer Science – the Power of Non-covalent Bonds	<b>Alexa Kuenstler</b> (Univ. Illinois, USA) Chemical Control of the Linear Viscoelasticity of Dynamic Covalent Networks
15h40 – 16h10	Coffee break		
	<b>Session 7.1</b> (Chair: Renaud Nicolaÿ)	<b>Session 7.2</b> (Chair: Katrien Bernaerts)	<b>Session 7.3</b> (Chair: Christoph Weder)
16h10 – 16h35	<b>John Torkelson</b> (Northwestern University, USA) The temperature dependence of dynamics in CANS: Different factors control the apparent activation energies of stress relaxation and viscous creep in associative CANS and dissociative CANS	<b>Sandra Schlögl</b> (PCC Leoben, Austria ) Dynamic Photopolymers Containing Reversibly Activatable Catalysts	<b>Joost Brancart</b> (Vrij Univ. Brussel, Belgium) Dynamic Polymer Network Design for Applications using Structure-Property Relations
16h35 – 16h50	<b>Vincent Scholiers</b> (Ghent University, Belgium) Transalkylation as a Gateway to Multifunctional Dynamic Polymer Networks	<b>Ianis Retailleau</b> (ESPCI-PSL Univ, France) Transparency, Processability and High Tg for Vitrimer Composites in Photovoltaics	<b>Vincent Boulic</b> (LIST, Luxembourg) Degradation and Stability of a Bio-Based Polybenzoxazine Vitrimer during Mechanical Recycling
16h50 – 17h05	<b>Natanel Jarach</b> (Hebrew Univ. Jerusalem, Israel) Untighten the Knot: Fully Recyclable, Photocurable Disulfide-Containing Adhesive	<b>Elisabeth Rossegger</b> (Leoben, Austria) Wavelength-Dependent Dynamic Behavior in Photopolymer Networks	<b>Stephan Maessen</b> (TU Eindhoven, Netherlands) Photoinduced Reversible Phase Separation in Dynamic Covalent Networks for Debondable Adhesives
17h05 – 17h20	<b>Lillian Felsenthal</b> (Northwestern University, USA) Robust Self-Healing Adhesives Based on Dynamic Urethane Exchange Reactions	<b>Osman Konuray</b> (UPC Barcelonatech, Spain) Investigating the Dynamicity of Epoxy Vitrimers as Influenced by Dynamic Bond Content: A Network Decrosslinking Approach	<b>Ian Wyllie</b> (University of Colorado Boulder, USA) Transport Dynamics in Nominally Non-Porous and Swollen Covalent Adaptable Networks
17h20 – 17h45	<b>Andrew Slark</b> (University of Sheffield, UK) CANS based on Polyurethanes and Polyesters	<b>François Tournilhac</b> (CNRS-ESPCI, France) Latency, catalysis and phase separation in epoxy-based vitrimers	<b>Charles-André Fustin</b> (UC Louvain, Belgium) Development of Vitrimers for Solid State Polymer Electrolytes
19h30	Gala dinner		

THURSDAY - 14 <sup>th</sup> August			
	Session 8.1 (Chair: Andrew Stark)	Session 8.2 (Chair: Zhibin Guan)	Session 8.3 (Chair: Enrico Dalcanale)
09h00 – 09h25	<b>Sabyasachi Gaan</b> (Empa, Switzerland) Phosphorus-based Dynamic Covalent Adaptable Networks: Addressing Fire Protection and Recyclability as a Unified Solution	<b>Svetlana Sukhishvili</b> (Texas A&M Univ., USA) Shape Morphing Materials with Dynamic Covalent Bonds)	<b>Michael Dickey</b> (NC State University) Tough Glassy Gels Crosslinked by Liquids
09h25 – 09h40	<b>Shermin Goh</b> (A*STAR IMRE, Singapore) One-Pot Synthesis of Covalent Adaptable Networks for Plastics and Energy Sustainability	<b>Sidonie Laviéville</b> (ICG Montpellier, France) Stabilized N,X-acetals: New Exchange Platforms for Vitrimer Application	<b>Davide Campagna</b> (University Mainz, Germany) Post-Fabrication Reconfiguration of Functional Crosslinking Segments in Polymer Gels
09h40 – 09h55	<b>Jolly Patro</b> (Northwestern university, USA) Investigating Mechanophore Activation in Covalent Adaptable Networks	<b>Cao Huixing</b> (Maastricht University, Netherlands) Dynamically Cross-Linking Polyaspartic ester with Epoxy resin: Biobased vs. Petroleum Based Solvent-free and Catalyst-free Vitrimers	<b>Kanykei Ryskulova</b> (IMP, INSA Lyon, France) Tunable Ionic Liquid-Based Dynamic Epoxies for Advanced Recyclable Thermosets
09h55 – 10h10	<b>Jung Kwon Oh</b> (Concordia University, Canada) Poly(hindered urea) Covalent Adaptive Network Materials for Energy Harvesting and Storage Applications	<b>Anna Vilanova</b> (Universitat Rovira i Virgili, Spain) Design of 3D Printing, Self-Repairing and Recyclable Biobased Acetals with Tunable Mechanical and Viscoelastic Properties	<b>Matias Paatelainen</b> (Tampere University, Finland) Live-Shaping of Hydrogel Thin Films with Light
10h10 – 10h25	<b>Gloria Signorato</b> (Univ. Hamburg, Germany) Magnetic Vitrimer Nanocomposites: Reprocessable and Multi-Responsive Materials	<b>Logan Chevret</b> (ICG Montpellier, France) Recyclable and High Tg Phenolic Urethane from Cashew Nut Shell Liquid and Biobased Isocyanate Crosslinker	<b>Mario Piedrahita-Bello</b> (Aalto University, Finland) Hierarchical Strengthening of Resilient Hydrogel Networks via a Self-Reinforcement Approach
10h25 – 10h55	Coffee break		
	Session 9.1 (Chair: Alexa Kuenstler)	Session 9.2 (Chair: Marc Guerre)	Session 9.3 (Chair: Michael Dickey)
10h55 – 11h10	<b>Anahita Karimi</b> (UCL (BE)/Univ. Groningen (NL)) Investigating the Rheological and Thermal Properties of Dynamic Covalent Polyethylene Networks	<b>Xiaokong Liu</b> (Jilin University, China) Strong and Tough Supramolecular Covalent Adaptable Networks	<b>Taha Behrooz Kohlan</b> (KTH, Sweden) Schiff Base Crosslinked Dynamic Covalent Hydrogels with Tunable and Cell-Instructive Properties
11h10 – 11h25	<b>Alvaro Quinteros-Sedano</b> (UC Louvain, Belgium) Delving into the Viscoelastic Properties of Dioxazaborocane Vitrimers	<b>Takeo Suga</b> (Waseda University, Japan) New Bio-derived, Diels-Alder Adducts for Materials Recycling of Network Polymers	<b>Jessica Garcia</b> (Univ. North Carolina, USA) Injectable Bottlebrush Hydrogels Mimicking the ECM Softness
11h25 – 11h40	<b>Niklas Lorenz</b> (TU Delft, Netherlands) Engineering Composite Manufacturing with Dynamic Covalent Networks Bearing Aromatic Disulfide Bonds	<b>Aleix Costa Cornellà</b> (Vrije Univ. Brussel, Belgium) Engineering the Relaxation Dynamics of Polymer Networks by Combining Associative and Dissociative Dynamic Covalent Bonds	<b>Thomas Swift</b> (University of Bradford, UK) Incorporating Antibiotic Functional Highly Branched Polymers into Interpolymer Networks to Create Agglutination Based Microbiology Sensors
	Plenary session - Chair: Huaping Xu		
11h45 – 12h25	<b>Tao Xie</b> (Zhejiang University, China) <i>Designing Life Cycle Performance of Polymers via Dynamic Polymer Networks</i>		
12h25 – 12h40	Award ceremony / Closing remarks		
12h40 – 14h00	Lunch		