

MONDAY 24 APRIL 2023

**WORKSHOP A
CHEMISTRY**

LECTURE ROOM: EARTH

chairperson: Mr. Sean Lugger (TU/e)

14.00 - 14.20	Enzymatic Synthesis of Furanic-aliphatic Polyesters: Isomeric Substitution Effects <i>Fitrilia Silvianti</i> , Dina Maniar, Beatriz Agostinho, Albert Woortman, Jur van Dijken, Shanmugam Thiyagarajan, Andreia Sousa and Katja Loos (RuG)
14.20 - 14.40	Fully Biodegradable Cubosomes <i>Suna Azhdari</i> , André Gröschel and Frederik Wurm (UT)
14.40 - 15.00	Covalent Adaptable Networks using Boronate Linkages by incorporating TetraAzaADamantanes <i>Simon van Hurne</i> , Marijn Kisters and Maarten Smulders (WUR)
15.00 - 15.20	Exploring the Potential of Biopolymer-based Complex Coacervates as 3D Printable Bioinks <i>Olivia Dittberner</i> , Armin Amirsadeghi, Julien Es Sayed, Gosia Wlodarczyk-Biegun and Marleen Kamperman (RuG)
15.20 - 15.40	Tea Break
15.40 - 16.00	Facile Synthesis of Strong Polyanions via Copper-Mediated Controlled Radical Polymerisation <i>Théophile Pelras</i> , András Eisenga, Lieke Germain, Gabor Ersek, Anton Hofman, Aldo Altomare, Anna Maan, Giuseppe Portale, Marleen Kamperman and Katja Loos (RuG)
16.00 - 16.20	Sequence Control in Electrostatically-driven Templated Polymerization <i>Fabian Sobotta</i> , Chendan Li, Jose Magana, Bas van Ravensteijn and Ilja Voets (TU/e)
16.20 - 16.40	Camphoric Acid-derived Biobased (co)Polyesters: Synthesis and Enzymatic Degradation <i>Syaiful Ahsan</i> , Fitrilia Silvianti, Cornelis Post, Dina Maniar and Katja Loos (RuG)
16.40 - 17.00	Templated Worms via Polymerization-induced Self-assembly (PISA): A Robust Strategy for Drug Delivery? <i>Eleonora Hochreiner</i> , Jaimie Hak, Bence Fehér, Ilja Voets, Jutta Rieger, Rene van Nostrum, Tina Vermonden and Bas van Ravensteijn (UU)

MONDAY 24 APRIL 2023

WORKSHOP B
BIOMEDICAL

LECTURE ROOM: AIR

chairperson: Mr. Martin Rutten (TU/e)

14.00 - 14.20	Luciferin-bioinspired Thioimide Dynamic Covalent Hydrogel for 3D Cell Encapsulation Minye Jin and Julieta Paez (UT)
14.20 - 14.40	Multi-Responsive 3D Printable Jammed Microgels Ink Julien Es Sayed, Mohammad Khoonkari, Marta Oggioni, Patrick Perrin, Nicolas Sanson, Marleen Kamperman and Malgorzata Wlodarczyk-Biegun (RuG)
14.40 - 15.00	Cellular Internalization of Ureido-pyrimidinone Synthetic Fiber through Tailored Monomer Design Riccardo Bellan, Laura Rijns, Stefan Wijker, Zhixuan Zhou, Sarah Chagri, Konrad Maxeiner, Manfred Wagner, David Ng, Tanja Weil and Patricia Dankers (TU/e)
15.00 - 15.20	Switching the Mode of Drug Release from a Reaction-Coupled Low Molecular-Weight Gelator System by Altering Its Reaction Pathway Sandeepa Vittala, Willem Noteborn, Maria Broto Torredemer, Chandan Maity, Frank Versluis, Rienk Eelkema and Roxanne Kieltyka (UL)
15.20 - 15.40	Tea Break
15.40 - 16.00	Temperature-driven Shrinking Technology for 3D-printed Hydrogels: a Post-printing Approach to Reach Physiological Dimensions in Kidney Tissue Engineering Greta Di Marco, Marc Falandt, Myriam Neumann, Thibault Sampon, Martina Viola, Riccardo Levato, Bas van Ravensteijn, Rene van Nostrum and Tina Vermonden (UU)
16.00 - 16.20	
16.20 - 16.40	
16.40 - 17.00	

MONDAY 24 APRIL 2023

WORKSHOP C
PHYSICS & THEORY

LECTURE ROOM: WATER
chairperson: Xuecong Li (WUR)

14.00 - 14.20	Molecular-dynamics Insights into the Flow-induced Crystallization of Isotactic PP Nikos Sigalas and Alexey Lyulin (TU/e)
14.20 - 14.40	Interfacial Stereocomplexation of Polylactides in Additive Manufacturing Roy Kneepkens, Varun Srinivas, Nils Leoné, Charmayne Siebers, Elias Bach, Tosca van Hooy (Zuyd Hogeschool) and Jules Harings (UM)
14.40 - 15.00	Molecular Simulation of the Oxidative Degradation of Glassy Polymers Konstantinos Steiakakis, Georgios Vogiatzis, Patrick Anderson, Markus Hütter, Lambert van Breemen and Doros Theodorou (TU/e)
15.00 - 15.20	Structure-Property Correlations of Tenter-Frame Biaxially Oriented Polyethylene Ilaria Squillante and Giuseppe Portale (RuG)
15.20 - 15.40	Tea Break
15.40 - 16.00	Stereocomplex Crystallization in PLLA/PDLA/PMMA Ternary Blends under Steady Shear Flow Hamid Ahmadi, Patrick Anderson and Ruth Cardinaels (TU/e)
16.00 - 16.20	Film Formation of Soft, Surfactant-free Colloidal Systems Gabor Érsek, Jurgen Scheerder, Ilse v. Hoeven v.d. Casteren and Giuseppe Portale (RuG)
16.20 - 16.40	Fiber Orientation Kinetics in Uniaxial Elongational Flow Thijs Egelmeers, Nick Jaensson, Patrick Anderson and Ruth Cardinaels (TU/e)
16.40 - 17.00	Thiourea H-bonded Self-healing Supramolecular Solid Polymer Electrolytes for Li-S Batteries Yongsheng Zhang, Lieke Germain and Giuseppe Portale (RuG)

MONDAY 24 APRIL 2023

**WORKSHOP D
TECHNOLOGY**

LECTURE ROOM: FIRE

chairperson: Ms. Annemarie Maan (RuG)

14.00 - 14.20	Enzymatic Depolymerization of Polyester Blends Joël Benninga, Vincent S.D. Voet, Rudy Folkersma and Katja Loos (RuG)
14.20 - 14.40	Molecular Design of Nucleating Agents for Biobased Polyesters Francesca Bertella, Nils Leone, Daniel Hermida Merino, Stefaan de Wildemann and Jules Harings (UM)
14.40 - 15.00	Closed-loop Recyclable High Performance Polyimine Aerogels Derived from Bio-based Resources Changlin Wang, Fabian Eisenreich and Željko Tomović (TU/e)
15.00 - 15.20	Dopamine-based Copolymers for Functional Adhesives and Surface Engineering of Polyethylenes Roland Milatz, Joost Duvigneau and Julius Vancso (UT)
15.20 - 15.40	Tea Break
15.40 - 16.00	Influence of Humidity on the Deformation Kinetics and Crack Growth Kinetics of Polyamide-6 Sten van den Broek, Mike van Zwieten and Leon Govaert (TU/e)
16.00 - 16.20	The Potential of Using Plastic Materials as a Carbon Sink Robert-Jan van Putten and Gert-Jan Gruter (Avantium)
16.20 - 16.40	Dynamic Quorum Behavior in Polymersome Stomatocytes Alexander Fusi, Marrit Tholen, Yudong Li, Lorenzo Albertazzi, Tania Patiño Padial, Loai Abdelmohsen and Jan van Hest (TU/e)
16.40 - 17.00	Preparation of Sodium Carboxymethyl Cellulose-Chitosan Complex Membranes through Sustainable Aqueous Phase Separation Lijie Li, Muhammad Irshad Baig, Wiebe de Vos and Saskia Lindhoud (UT)

TUESDAY 25 APRIL 2023

WORKSHOP I
CHEMISTRY

LECTURE ROOM: EARTH

chairperson: Mr. Antonis Vasileiadis (RuG)

13.30 - 13.50	Diels-Alder Polymers Based on Renewable Furanic Cyclobutanes Luan Moreira Grilo, Dina Maniar, Alessandro Gandini, Talita Martins Lacerda and Katja Loos (RuG)
13.50 - 14.10	Moderated Ionic Bonding for Water-free Recyclable Polyelectrolyte Complex Materials Sophie van Lange, Diane te Brake, Giuseppe Portale, Anbazhagan Palanisamy, Joris Sprakel and Jasper van der Gucht (WUR)
14.10 - 14.30	Dextrin-based Thermo-responsive Hydrogels Xia Qiu, Xiaohong Lan, Vincent Voet and Katja Loos (RuG)
14.30 - 14.50	Thermally- and Hydrolytically Stable, RNA-inspired Dynamic Covalent Networks Roy Wink, Soumabrata Majumdar, Rolf van Benthem, Hans Heuts and Rint Sijbesma (TU/e)
14.50 - 15.10	Construction of Glycoassemblies by preparing Duplex-responsive Triblock Glycopolymers Mokun Chen, Théophile Pelras, Rudy Folkersma and Katja Loos (RuG)

TUESDAY 25 APRIL 2023

WORKSHOP II
(MATERIALS) CHEMISTRY

LECTURE ROOM: AIR

chairperson: Mr. Stefan Wijker (TU/e)

13.30 - 13.50	Self-healing Antifouling Polymer Brushes Annemieke van Dam, Maarten Smulders and Han Zuilhof (WUR)
13.50 - 14.10	Biobased Series of Polyester Amides from Commercially Available Monomers via a Straightforward Process Cornelis Post, Jeroen v.d. Vlist, Vincent Voet, Rudy Folkersma and Katja Loos (RuG)
14.10 - 14.30	Switchable IR-reflective Polymer Coatings for Smart Windows Henk Sentjens, Augustinus Kragt, Johan Lub, Mart Claessen, Vera Buurman, Joris Schreppers, Henk Gongriep and Albert Schenning (TU/e)
14.30 - 14.50	Preparation and Characterization of PVA / Nanocelulose Composite Membranes for Microplastic Removal Dian Burhani, Piotr Stanisław Zielinski, Théophile Pelras, Fitrilia Silvianti, Gosia Włodarczyk-Biegun, Dina Maniar, Rudy Folkersma, Vincent Voet and Katja Loos (RuG)
14.50 - 15.10	Integrated Janus Cellulosic Composite with Multiple Thermal Functions for Personalized Thermal Management Luying Chen, Hainan Zhang, Zhiping Mao, Bijia Wang, Xueling Feng and Xiaofeng Sui (UT)

TUESDAY 25 APRIL 2023

WORKSHOP III
TECHNOLOGY

LECTURE ROOM: WATER

chairperson: Ms. Wendy Jonkers (UT)

13.30 - 13.50	Uncertainty Quantification for the Squeeze Flow of Generalized Newtonian Fluids Aricia Rinkens, Clemens Verhoosel and Nick Jaensson (TU/e)
13.50 - 14.10	Detailed Study of the Reaction between Functionalised Rubber and Silica in Solution Marcin Sęk, Wisut Kaewsakul, Rafał Anyszka, Steven Schultz and Anke Blume (UT)
14.10 - 14.30	Multiaxial Failure of Short-Fiber Reinforced Thermoplastics Martijn Wismans, Lambert van Breemen, Leon Govaert and Tom Engels (TU/e)
14.30 - 14.50	Alcohol Processing of Biobased Polyamide/Lignin Blends Yawen Yao and Katrien Bernaerts (UM)
14.50 - 15.10	