

MONDAY 24 APRIL 2023

**WORKSHOP A
CHEMISTRY**

TENTATIVE 10 April 2023

LECTURE ROOM: EUROPA

chairperson: Mr. Sean Lugger (TU/e)

14.00 - 14.20	Enzymatic Synthesis of Furanic-aliphatic Polyesters: Isomeric Substitution Effects Fitrilia Silvianti , Dina Maniar, Beatriz Agostinho, Albert Woortman, Jur van Dijken, Shanmugam Thiyagarajan, Andreia Sousa and Katja Loos (RuG)
14.20 - 14.40	Fully Biodegradable Cubosomes Suna Azhdari , André Gröschel and Frederik Wurm (UT)
14.40 - 15.00	Covalent Adaptable Networks using Boronate Linkages by incorporating TetraAzaADamantanes Simon van Hurne , Marijn Kisters and Maarten Smulders (WUR)
15.00 - 15.20	Exploring the potential of biopolymer-based complex coacervates as 3D printable bioinks Olivia Dittberner , 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 Théophile Pelras , Andrés 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 Fabian Sobotta , 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 Syaiful Ahsan , 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? Eleonora Hochreiner , 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

TENTATIVE 10 April 2023

LECTURE ROOM: AFRIKA

chairperson: Mr. Martin Rutten (TU/e)

14.00 - 14.20	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 Vermonde (UU)
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	Luciferin-bioinspired Thioimidate Dynamic Covalent Hydrogel for 3D Cell Encapsulation Minye Jin and Julieta Paez (UT)
16.00 - 16.20	
16.20 - 16.40	
16.40 - 17.00	

MONDAY 24 APRIL 2023

WORKSHOP C
PHYSICS & THEORY

TENTATIVE 10 April 2023

LECTURE ROOM: AMERIKA

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

TENTATIVE 10 April 2023

LECTURE ROOM: AZIE

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, 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: EUROPA

TENTATIVE 10 April 2023

chairperson: Mr. Antonis Vasileiadis (RuG)

13.30 - 13.50	Thermally- and Hydrolytically Stable, RNA-inspired Dynamic Covalent Networks Roy Wink , Soumabrata Majumdar, Rolf van Benthem, Hans Heuts and Rint Sijbesma (TU/e)
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	Diels-Alder Polymers Based on Renewable Furanic Cyclobutanes Luan Moreira Grilo , Dina Maniar, Alessandro Gandini, Talita Martins Lacerda and Katja Loos (RuG)
14.30 - 14.50	Dextrin-based Thermo-responsive Hydrogels Xia Qiu , Xiaohong Lan, Vincent Voet and Katja Loos (RuG)
14.50 - 15.10	

TUESDAY 25 APRIL 2023

WORKSHOP II
(MATERIALS) CHEMISTRY

LECTURE ROOM: AFRIKA

TENTATIVE 10 April 2023

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

TENTATIVE 10 April 2023

LECTURE ROOM: AZIE

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	
14.50 - 15.10	