

# DUTCH POLYMER DAYS - 20

MONDAY 24 APRIL 2023

- 09.30 - 10.15 **Registration & Coffee** *update: 21 MARCH 2023*
- 10.15 - 10.20 **OPENING: Prof. Rint Sijbesma (TU/e)**
- 10.20 - 10:40 **Recyclable Soft Actuators Based on Thermoplastic Liquid Crystal Elastomers**  
Sean Luggar, Dirk Jan Mulder and Albert Schenning (TU/e)
- 10.40 - 11:00 **From Nature's Chirality to a New Generation of Biobased Polyesters**  
Antonis Vasileiadis, Christopher-Peter Kelevendjiev, Mitchell Glass, Stella Korfia, Myrto Sarigiannidou and Katja Loos (RuG)
- 11.00 - 11.20 **Adhesion-Modified Polypropylene Composites: A Sticky Situation**  
Stan Looijmans, Lambert van Breemen and Patrick Anderson (TU/e)
- 11.20 - 11.40 **Designing Asymmetric Polyelectrolyte Multilayer Membranes for Efficient Separations**  
Wendy Jonkers, Jurjen Regenspurg, Esra te Brinke and Wiebe de Vos (UT)
- 11.40 - 12.00 **Phosphate Esters in Dynamic Covalent Networks**  
Soumabrata Majumdar, Diederik van Luijk, Huiyi Zhang, Brahim Mezari, Stan Looijmans, Lambert van Breemen, Rolf van Benthem, Hans Heuts, Rint Sijbesma (TU/e), Ivo Beeren and Matt Baker (UM)
- 12.00 - 12.20 **Click Chemistry-based Polymers Studied One by One: AFM & AFM-IR Studies**  
Xuecong Li, Francesco Ruggeri and Han Zuilhof (WUR)
- 12.30 - 14.00 **Lunch**  
**Meeting PTN - NWO - KNCV - Group Leaders (room 13)**
- 14.00 - 17.00 **WORKSHOP A, B, C & D** (15.20 - 15.40 Tea Break)
- 17.15 - 18.15 **PTN Medema Lecture Award Winner 2023**  
**Toward Sustainable Thermoplastic Elastomers: Tapered Block and Multiblock Copolymers of Styrene, Isoprene and New Bio-Based Monomers**  
**Prof. Axel Müller (University of Mainz – Germany)**
- 18.30 - 20.00 **Dinner**
- 20.00 - 21.30 **POSTER SESSION & WINE & CHEESE (EUROPE HALL)**

# DUTCH POLYMER DAYS - 20

## TUESDAY 25 APRIL 2023

- 08.00 - 09.00 **Breakfast & Check out hotel rooms De Werelt**
- 09.00 - 09.20 **Engineering Stress Stiffening Behavior into Supramolecular Hydrogels**  
Martin Rutten, Laura Rijns, Simone Hendrikse, Riccardo Bellan, Shikha Dhiman, Hongbo Yuang (KU Leuven), Paula de Almeida (RU Nijmegen), Susana Rocha (KU Leuven), Paul Kouwer (RU Nijmegen) and Patricia Dankers (TU/e)
- 09.20 - 09.40 **Sugar Beet Pulp derived, Fully Bio-based Monomer as a Building Block for Photocrosslinkable Polyester Coating Resin with Built-in Degradability**  
Zhou Fang, Katrien Bernaerts (UM) and Geert Deroover (ChemStream)
- 09.40 - 10.00 **Biomimetic Cytoskeleton in Synthetic Cells: Increasing Organizational Complexity and Diverse Functionality**  
Sebastian Novosedlik and Jan van Hest (TU/e)
- 10.00 - 10.20 **Foul No More: Reversible Antifouling Polymer Coatings via Adsorption Strategies**  
Annemarie Maan, Chantal Graafsma, Anton Hofman, Théophile Pelras, Marleen Kamperman (RuG) and Wiebe de Vos (UT)
- 10.20 - 10.40 **Coffee Break**
- 10.40 - 11.00 **The Customization of Polyelectrolyte Layer-by-Layer Nanofiltration Membranes**  
Danielle Scheepers, Anna Casimiro, Jeroen de Keizer, Zandrie Borneman and Kitty Nijmeijer (TU/e)
- 11.00 - 11.20 **Modulating Ion Conductivity via Light Switchable Polymers**  
Gianni Pacella, Rachael Annah, Ryan Chiechi, Shirin Faraji and Giuseppe Portale (RuG)
- 11.20 - 11.40 **Closed-loop Recycling of Poly(imine-carbonate) Derived from Plastic Waste and Bio-based Resources**  
Keita Saito, Fabian Eisenreich, Tankut Türel and Željko Tomović (TU/e)
- 11.40 - 12.00 **How Polymer Microstructure Controls the Size & Shape of Single-chain Polymeric Nanoparticles in Aqueous Media**  
Stefan Wijker and Anja Palmans (TU/e)
- 12.00 - 12.30 **Winner of the Challa Polymer Award 2023**  
Jeroen Sol, PhD - Supervisors: Prof. Albert Schenning & Dr. Michael Debije (TU/e)
- 12.30 - 13.30 **Lunch**
- 13.30 - 15.10 **WORKSHOP I, II & III** (15.10 - 15.30 Tea Break)
- 15.30 - 16.10 **Vitrimers: Permanently crosslinked polymers with dynamic network topology**  
Prof. Renaud Nicolaÿ (ESPCI Paris-PSL - France)
- 16.10 - 16.25 **CEREMONIES & CLOSURE: Prof. Katja Loos (RuG)**  
**Awards of the Best: Plenary & Workshop Lectures & Posters DPD-20**