

# DUTCH POLYMER DAYS 2023

MONDAY 24 APRIL 2023

- 09.30 - 10.15 **Registration & Coffee**
- 10.15 - 10.20 **OPENING: Prof. Rint Sijbesma (TU/e)**
- 10.20 - 10:40 **Recyclable Soft Actuators Based on Thermoplastic Liquid Crystal Elastomers**  
Sean Luggger, 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 (EARTH HALL)**

# DUTCH POLYMER DAYS 2023

## 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 (RUN), Susana Rocha (KU Leuven), Paul Kouwer (RUN) and Patricia Dankers (TU/e)
- 09.20 - 09.40 **Sugar Beet Pulp derived, Fully Bio-based Monomer as a Building Block for Photo-crosslinkable 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 - France)
- 16.10 - 16.25 **CEREMONIES & CLOSURE: Prof. Katja Loos (RuG)**  
**Awards of the Best: Plenary & Workshop Lectures & Posters DPD-20**