

POLYMERS 2022 - Conference Programme

Monday, 3 October 2022

17:00 – 18:30 **Registration**

19:00 *Welcome dinner*

Tuesday, 4 October 2022

9:20 – 9:30 **OPENING** **Jiří Kotek, Petr Chytil**

Chaired by: Jiří Kotek

9:30 – 9:50 L-01
Zdeněk Starý
Wall slip and instabilities in capillary flow of lubricated polyethylene melt

9:50 – 10:10 L-02
Yaryna Soyka
Preparation and properties of composites with hybrid nanofillers

10:10 – 10:30 L-03
Zhejing Cai
Sustainable thermoplastic material based on potato starch and natural rubber

10:30 – 11:00 *Coffee break*

Chaired by: Hynek Beneš

11:00 – 11:20 L-04
Zuzana Benková
Adsorption of mono-peptides onto carbon nanotubes grafted with poly(ethylene oxide) chains. molecular dynamics study

11:20 – 11:40 L-05
Abolfazl Heydari
Modification of chitosan by permanently charged cationic and anionic moieties: An interesting science behind at glance simple approaches

11:40 – 12:10 L-06
Pavel Izák
A new chiral membranes for racemix mixture separation

12:10 – 12:30 L-07
Stanislav Kukla
Big science with small footprint

12:30 – 14:00 *Lunch*

Chaired by: Igor Lacík

- 14:00 – 14:35 IL-01
Robin Hutchinson
Efficient synthesis of acrylic block copolymers in a semi-batch process
- 14:35 – 14:55 L-08
Sachin Gupta
Cu(0)-RDRP of 2-hydroxyethyl methacrylate in a non-polar solvent: Rapid synthesis of well-defined, high-molecular weight (co)polymers
- 14:55 – 15:15 L-09
Vladimír Raus
Adducts of trichloroacetyl isocyanate: A new class of multifunctional initiators for copper-mediated RDRP
- 15:15 – 15:35 L-10
Rafal Poreba
Antifouling surfaces via interface-mediated photoinduced electron/energy transfer reversible addition–fragmentation chain transfer (PET-RAFZ) polymerization
- 15:35 – 15:55 L-32
Dušan Račko
Channels with helical modulation display stereosensitivity for chiral superstructures

15:55 – 18:00 **Social afternoon**

18:00 – 19:30 **Barbecue**

19:30 – 22:00 **POSTER SESSION**

Wednesday, 5 October 2022

Chaired by: Zdeněk Starý

9:30 – 9:50 L-11

Josef Jůza

Polymer blends compatibilization using copolymers: modification of simple estimation methods

9:50 – 10:10 L-12

Monika Hittlová

Influence of waste rubber powder (WRP) activation temperature on the behavior of WRP-modified rubber matrix

10:10 – 10:30 L-13

Marwa Rebei

Ionic liquid-induced formation of bio-sourced epoxy network

10:30 – 11:00

Coffee break

Chaired by: Jan Sedláček

11:00 – 11:20 L-14

Jan Merna

Special polyolefins by chain walking catalysts

11:20 – 11:40 L-15

Bogdana Bashta

Porous hyper-cross-linked polymers prepared via templating method

11:40 – 12:00 L-16

Vojtěch Musil

Chain walking polyethylene as impact strength modifier of polystyrene

12:00 – 12:20 L-17

Alena Hašková

Porous ionic hyper-cross-linked polyacetylenes with chiral and achiral segments

12:20 – 14:00

Lunch

Chaired by: Zuzana Benková

- 14:00 – 14:20 L-18
Hynek Beneš
Sustainable polyitaconic acid / nanoclay hydrogels
- 14:20 – 14:40 L-19
Aakash Sharma
Polyurea protective coatings with fast drying times. Understanding of crosslinking film formation
- 14:40 – 15:00 L-20
Miroslava Dušková-Smrčková
Hydrogels may turn stimuli-responsive under strain
- 15:00 – 15:20 L-21
Stepan Podzimek
Molecular structure of recycled polymers by size exclusion chromatography and advanced detectors

15:20 – 15:50 *Coffee break*

Chaired by: Michal Pechar

- 15:50 – 16:10 L-22
Juraj Kronek
New gradient copolymers based on aliphatic and aromatic 2-oxazolines for photodynamic therapy
- 16:10 – 16:30 L-23
Faeze Dorchei
Post-modification of multicomponent PMCG microcapsules with polyelectrolytes: Impact on microcapsule characteristics and biocompatibility
- 16:30 – 16:50 L-24
Martin Hrubý
Thermo-, pH- and reactive oxygen species-responsive polymer contrast agents for ^{19}F magnetic resonance imaging
- 16:50 – 17:10 L-25
Ladislav Androvič
Novel biocompatible polymer probes for dual ^{31}P and ^{19}F magnetic resonance imaging

19:00 **Conference dinner**

Thursday, 6 October 2022

Chaired by: Juraj Kronek

9:30 – 9:50 L-26

Rachel Yerushalmi-Rozen

Modification of acid-base equilibria of weak polyelectrolytes in complex fluids

9:50 – 10:10 L-27

Volodymyr Lobaz

Interactions of proteins with synthetic polymers

10:10 – 10:30 L-28

Jaroslav Kolejka

Modern methods of thermal and mechanical analysis of polymers

10:30 – 11:00

Coffee break

Chaired by: Jan Merna

11:00 – 11:20 L-29

Jana Machotová

Water resistance of latex coatings: Effect of crosslinking, fluorinated comonomer, and polymerizable surfactant

11:20 – 11:40 L-30

Vojtěch Jašek

Synthesis of novel bio source polymerizable coating precursors based on depolymerized poly lactic acid (PLA)

11:40 – 12:00 L-31

Ondřej Štrympl

Laurate modified low molar mass sodium hyaluronan association and solubilization efficiency in aqueous media

12:00

CLOSING OF THE CONFERENCE

12:30

Lunch