



7TH YOUNG POLYMER SCIENTISTS CONFERENCE AND SHORT COURSE

PROGRAM AND ABSTRACTS



Lodz University of Technology
Faculty of Chemistry
Department of Molecular Physics

27-28 September 2021, Lodz, Poland, online

7th Young Polymer Scientists Conference & Short Course, 27-28. 09. 2021, Lodz, Poland
 Scientific program of tutorial lectures (T) and young scientists' short communications (Y)

Monday, September 27 th , webinarium		
8:40 – 9:00		Opening Ceremony
Chairperson: Jacek Ulański	9:00 – 9:40	(T1) Andrzej Gałęski , Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Lodz, Poland <i>Processing induced strengthening of polymers</i>
	9:40 – 10:20	(T2) Krzysztof Matyjaszewski , Carnegie Mellon University, Center for Macromolecular Engineering, Pittsburgh, USA, & Lodz University of Technology, Department of Molecular Physics, Lodz, Poland <i>Nanostructured Polymers and Nanocomposites by ATRP</i>
	10:20 – 10:35	(Y1) Helen Pfukwa , Department of Chemistry and Polymer Science, Stellenbosch University, Stellenbosch, South Africa <i>Bio-based aldehyde-functionalised polymers by reverse iodine transfer polymerization</i>
	10:35 – 10:50	(Y2) Mahrukh Sadaf , Department of Enterprise Engineering "Mario Lucertini", and INSTM RU Roma-Tor Vergata, University of Rome "Tor Vergata", Rome, Italy <i>Properties and processing of multi-component thermoplastic binder systems for extrusion-based additive manufacturing</i>
10:50 – 11:30		COFFEE BREAK
Aleksandra Wypych-Puszkarcz	11:30 – 12:10	(T3) Andrzej Rybak , ABB Corporate Technology Center, Krakow, Poland <i>Influence of polymer processing on thermal conductivity of nanocomposites</i>
	12:10 – 12:50	(T4) Francesca Nanni , University of Rome Tor Vergata, Italy <i>Present trend of polymers and composites application in the aerospace sector</i>
	12:50 – 13:05	(Y3) Piotr Węglarski , Department of Molecular Physics, Lodz University of Technology, Lodz, and Corning Optical Communications Sp. z o.o., Strykow, Poland <i>Stripping the primary coating layer from the fiber optic surface</i>
13:05 – 14:15		LUNCH BREAK
Lidia Okrasa	14:15 – 14:55	(T5) Rebeca Hernandez , Institute of Polymer Science and Technology (ICTP-CSIC), Madrid, Spain <i>Polymer hydrogels and their composites with nanostructured particles: from preparation to advanced applications</i>
	14:55 – 15:35	(T6) Beata Łuszczynska , Department of Molecular Physics, Lodz University of Technology, Poland <i>Organic photodetectors for NIR biological tissue window</i>
	15:35 – 15:50	(Y4) Ulrike Staudinger , Leibniz-Institut für Polymerforschung, Dresden, Germany <i>Dispersion and electrical percolation of shortened carbon nanotubes in styrene-butadiene based block copolymers</i>
	15:50 – 16:05	(Y5) Busra Findik , Ingénierie des Matériaux Polymères, Université Claude Bernard Lyon, Lyon, France <i>Synthesis of new nanocomposites based on magnesium and silicon by the combination of in situ sol-gel chemistry and reactive extrusion</i>
	16:05 – 16:20	(Y6) Jakub Szewczyk , NanoBioMedical Centre, Adam Mickiewicz University, Poznan, Poland <i>A novel, ultrathin 2D-like polydopamine membranes from the air/water interphase – tuning polymerization process towards better understanding of their nanostructure</i>
16:20 – 16:40		COFFEE BREAK
16:40 – 18:40		Poster session I
19:00 – 21:00		Poster session II

Tuesday, September 28th, webinarium

Marcin Kozanecki	8:30 – 9:10	(T7)Brigitte Voit , Leibniz-Institut für Polymerforschung, Dresden, Germany <i>Synthesis of functional polymeric materials for optoelectronic applications</i>
	9:10 – 9:50	(T8)Jiri Pflieger , Institute of Macromolecular Chemistry, Czech Academy of Sciences, Prague, Czech Republic <i>Application of polymers in solution processable organic electronic devices.</i>
	9:50 – 10:05	(Y7)Angelika Wrzesińska , Department of Molecular Physics, Lodz University of Technology, Lodz, Poland <i>Investigation of molecular dynamics of poly(dimethylsiloxane) cross-linked by metal-ligand complexes by broadband dielectric spectroscopy</i>
	10:05 – 10:20	(Y8)Mario Iván Peñas , Institute of Polymer Science and Technology (ICTP-CSIC), Madrid, and University of the Basque Country, Donostia-San Sebastián, Spain <i>Nanostructured thin films obtained by dip-coating poly(butylene succinate), poly(ϵ-caprolactone) and their copolyesters (PBS-ran-PCL)</i>
10:20 – 11:00		COFFEE BREAK
Beata Łuszczzyńska	11:00 – 11:40	(T9)Paul Blom , Max Planck Institute for Polymer Research, Mainz, Germany <i>Charge transport in organic semiconductors</i>
	11:40 – 12:20	(T10)Yingping Zou , Central South University, Changsha, China <i>Organic polymer optoelectronic materials</i>
	12:20 – 12:35	(Y9)Krzysztof Jerczyński , Institute of Polymer and Dye Technology, Lodz University of Technology, Lodz, Poland <i>Molecular brushes used as templates for titanium dioxide nanoparticles synthesis</i>
	12:35 – 12:50	(Y10)Andrzej Świeży , Faculty of Chemical Engineering and Technology, Cracow University of Technology and Photo HiTech Ltd, Cracow, Poland <i>One-component cationic photoinitiators for preparation semiconductor nanoparticles filled photopolymer composites</i>
12:50 – 13:50		LUNCH BREAK
Gabriela Wiosna-Sałyga	13:50 – 14:30	(T11)Stefan Jurga , NanoBioMedical Centre, Adam Mickiewicz University, Poznan, Poland <i>Nanomaterials for biomedicine</i>
	14:30 – 15:10	(T12)Tsuneo Hagiwara , Yokohama National University, Yokohama, Japan <i>Photocurable resin for 3D Printing</i>
	15:10 – 15:25	(Y11)Sonal Gupta , Institute of Macromolecular Chemistry, Czech Academy of Sciences, Prague, Czech Republic <i>Enhanced antibacterial activity of polypyrrole with tunable conductivity, morphology and capacitance by acriflavine hydrochloride</i>
	15:25 – 15:40	(Y12)Tatiana Statsenko , ITMO University and N.E. Bauman Moscow State Technical University, Moscow, Russia Federation <i>Optically active nanocolloidal ink for 3D printing</i>
15:40 – 16:00		COFFEE BREAK
Piotr Polanowski	16:00 – 16:40	(T13)Jean-Francois Gérard , National Institute of Applied Sciences of Lyon-INSA, France <i>Building of polymer networks: focus on gelation phenomenon</i>
	16:40 – 17:20	(T14)Krzysztof Hałagan , Department of Molecular Physics, Lodz University of Technology, Lodz, Poland <i>Computer simulations of non-equilibrium phenomena and complex polymer systems with cooperative dynamics</i>
	17:20 – 17:35	(Y13)Ron Dockhorn , Institute Theory of Polymers, Leibniz Institute of Polymer Research, Dresden, Germany <i>Polymer architectures by chain walking catalysis - theory, simulations, and experiments</i>
17:35 – 18:00		Concluding remarks
18:00 – 20:00		Poster session III