







Workshop on Progress in Nanotechnology and Optoelectronics

25-27. April 2019, Lodz, Poland

under the AUSPICES of:

European Polymer Federation
President of the Board of the Foundation for Polish Science
Rector of Lodz University of Technology
Dean of Faculty of Chemistry, Lodz University of Technology

Preliminary program

Thursday 25 April

08:30 - 09:50	Registration and Welcome coffee
09:50 - 10:00	Welcome and opening
10:00 – 10:40	Functional nanomaterials I (chair – J. Ulanski) Krzysztof Matyjaszewski Molecular engineering of nanostructured materials by Reversible Deactivation Radical Polymerization
10:40 – 11:05	Adam Proń Ternary and quaternary inorganic semiconductor nanocrystals for electronics and biomedicine: core and surface engineering
11:05 – 11:30	Stefan Jurga Multifunctional nanomaterials for biomedical applications
11:30 – 11:50	COFFEE BREAK
11:50 – 12:15	Functional nanomaterials II (chair – M. Kozanecki) Francesca Nanni Multifunctional polymeric composite materials for 3d printing: the scenario in industry 4.0
12:15 – 12:40	Andrzej Galeski Nanomechanisms of plastic deformations of polymers
12:40 – 13:05	Marcin Stepień Curvature vs. π -conjugation: new routes to chiral and low-bandgap systems
13:05 – 14:30	Sandwich lunch





















Synthesis of organic semiconductors (chair – M. Zagorska)

14:30 – 15:10	Klaus Müllen Graphene nanoribbons - merging the conjugated polymer and graphene worlds
15:10 – 15:35	Yingping Zou High performance polymer solar cells
15:35 – 16:00	Pierre Audebert New insights in tetrazines and heptazines chemistry; synthetic improvements and original properties in fluorescence and photoactivation
16:00- 16:20	COFFEE BREAK and installation of posters
46.00 46.45	Simulation and models (chair – P. Polanowski)
16:20 – 16:45	Andrzej Sikorski Dynamics in complex macromolecular systems. Simulations with the dedicated parallel machine ARUZ
16:45 – 17:10	Zbigniew Klusek Graphene hybrid systems. Physics and applications
17:10 – 17:35	Marek Szymański Inverse problems in organic electronics
17:40 – 19:40	Poster session
20:00 – 22:30	Official dinner for invited speakers and guests





















Friday 26 April

Molecular Optoelectronics I (chair – T. Marszalek)

09:00 – 09:40	Molecular Optoelectronics I (chair – T. Marszalek) Anna Köhler Describing charge separation in organic semiconductors
09:40 – 10:05	Juliusz Sworakowski How accurate are energies of HOMO and LUMO levels in small-molecule organic semiconductors determined from cyclic voltammetry — continuation
10:05 – 10:30	Eric Daniel Głowacki Abundant organic semiconductor catalysts for a peroxide clean energy cycle
10:30 - 11:00	COFFEE BREAK
11:00 – 11:40	Molecular Optoelectronics II (chair – H. Bässler) Paul Blom Charge injection and transport in organic semiconductors
11:40 – 12:05	Wojciech Pisula Organic ultrathin transistors interconnecting Lodz and Mainz
12:05 – 12:30	Jasper J. Michels Structuring in thin-film solutions upon liquid-vapour mass exchange
12:30 – 12:55	Jiří Pfleger Organic Electronic Memory Devices: How to make advantage from unwanted behaviour
12:55 – 14:30	Sandwich lunch
	Molecular Optoelectronics III (chair – J. Jung)
14:30 – 15:10	Marek Samoć The use of upconversion processes in nanosystems for biological and theranostic applications
15:10 – 15:35	Andy Monkman Thermally activated delayed fluorescence from exciplexes, how dilution increases performance
15:35 – 16:00	Luiz Pereira Efficient design of OLEDs structure: electrical carrier transport and recombination
16:00 – 16:30	COFFEE BREAK
16:30 – 16:55	Inorganic and hybrid materials (chair – B. Luszczynska) Xinliang Feng Polymer synthesis enabled by interfaces: towards a world of organic 2D materials for electronics
16:55 – 17:20	Jean-François Gérard Nanostructuration of polymers from assembling ionic liquids and metal-oxo clusters
17:20 – 17:45	Malgorzata Jakubowska Graphene composites in biomedical applications
18:00 – 19:00	Meeting of Polish Platform for Printed Electronics
18:00 – 20:00	Poster session Poster session
20:30 – 23:00	Informal dinner





















Saturday 27 April

Department of Molecular Physics Alumnae & Co-workers - Overview

Session D	MPI	Chair L	Okrasa)
JC33IOII L	/IVII I	CHUIL L.	OKI USU I

09:00 – 9:15	Session DMP I (chair L. Okrasa) Piotr Polanowski Investigation of diffusion limited aggregation in frame of the dynamic lattice liquid model
09:15 – 9:30	Jeremiasz K. Jeszka Properties of polymer brushes obtained using Controlled Radical Polymerization – Monte Carlo simulation studies
09:30 – 9:45	Gisèle Boiteux Segregated polymer-carbon nanofillers composites with specific thermal and electrical properties
09:45 - 10:00	Ireneusz Glowacki Solution-processed OLEDs
10:00 – 10:15	Jaroslaw Jung Technology of Real-World Analyzers (TAUR)
10:15 – 10:30	Aleksandra Wypych-Puszkarz Functional materials investigated by means of broadband dielectric spectroscopy
10:30 – 10:45	Marcin Kozanecki Photo and thermal stability of Ag nanoparticles stabilized by sodium citrate
10:45 – 11:00	Marcin Pastorczak Femtosecond infrared pump – stimulated Raman probe spectroscopy (fs-IR-SRS): the method and it's first application to study vibrational relaxation pathway in liquid water
11:00 - 11:20	COFFEE BREAK
	Session DMP II (chair I. Glowacki)
11:20 – 11:35	Piotr Cywinski A day in the life of a patent examiner
11:35 – 11:50	Andrzej Rybak Polymer composites for energy applications: challenges and opportunities
11:50 – 12:05	Lidia Okrasa Relaxation processes in macromolecules with complex structure
12:05 – 12:20	Olivier Siri Metallo-oligomers synthesis: from solution to surface
12:20 – 12:35	Tomasz Marszalek Organic Field Effect Transistors from a lab scale to the potential application
12:35 – 12:50	Beata Luszczynska Organic photodetectors - examples of devices with fast time response and high responsivity
12:50 – 13:05	Jacek Ulanski Recent progress in printed OLEDs
13:05 – 13:15	Closing remarks
14:00 – 17:00	Informal party











