









US-Czech Conference on Advanced Nanotechnology and Chemistry

Program

Wednesday, January 17, 2018

	Opening Session	Chair:		
8.15-8.45 am	Registration & Check In			
8.45-8.55 am	Stephen D. O'Regan (US Embassy, ONR Global): Safety Brief + US Embassy Sponsor Address			
8.55-9.05 am	Stephen B. King: Welcome Address of the U.S. Ambassador			
9.05-9.15 am	Radek Zbořil (RCPTM Palacký University Olomouc): Welcome Address of the Chairman]		
9.15-9.25 am	Pavel Doleček: Welcome Address of Deputy Minister of Ministry of Education, Youth and Sports of the Czech Republic	S. D. O'Regan		
9.25-9.35 am	Eva Zažímalová: Welcome Address of the Chairwoman of Czech Academy of Sciences (CAS)]		
9.35-9.45 am	Jaroslav Miller: Welcome Address of the Rector of Palacký University Olomouc			
9.45-10.00 am	Zdeněk Hostomský: Welcome Address of the Director of Institute of Organic Chemistry and Biochemistry CAS	1		
	Introductory Lectures in Nanotechnologies and Chemistry	Chair:		
10.00-10.25 am	Yuri Gogotsi: MXenes: New Ultrathin Materials Expand the Flatlands Drexel University	- R. Zbořil		
10.25-10.45 am	Josef Michl: Arrays of Dipolar Molecular Rotors Institute of Organic Chemistry and Biochemistry CAS / University of Colorado			
10.45-11.00 am				
	Biomedicine	Chair:		
11.00-11.20 am	Zdeněk Havlas: History of Success. Czech-US Development of anti-AIDS Drugs Institute of Organic Chemistry and Biochemistry CAS			
11.20-11.45 am	Alexander Kabanov: Nanoparticle-loaded Cells and Exosomes for Treatment of Brain Diseases University of North Carolina, Eshelman School of Pharmacy	Y. Gogotsi		
11.45-12.05 pm	Tomáš Etrych: Stimuli-responsive Polymer Nanomedicines for Treatment of Neoplastic and Inflammatory Diseases Institute of Macromolecular Chemistry CAS			









12.05-12.30 pm	Shaoyi Jiang: Molecular Understanding, Design and Development of Ultra-low Fouling Zwitterionic Materials University of Washington	
12.30 -1.30 pm	LUNCH BREAK	
	Nanophotonics, Biosensing, Graphene	Chair:
1.30-1.55 pm	Joshua Caldwell: Novel Materials for Active Infrared Nanophotonics and Optics Vanderbilt University	J. Stroscio
1.55-2.15 pm	Jiří Homola: Optical Biosensors and their Medical and Food Safety Applications Institute of Photonics and Electronics CAS	
2.15-2.40 pm	Jason Hafner: Membrane Structure Analysis by Enhanced Raman Scattering Rice University	
2.40-3.00 pm	Michal Otyepka: Chemistry of Fluorographene - Efficient Way towards Covalently Functionalized Graphene RCPTM Palacký University Olomouc	
3.00-3.20 pm	Radek Zbořil: Carbon Dots and Graphene-Based Materials with Exceptional Optical and Magnetic Properties **RCPTM Palacký University Olomouc** RCPTM Palacký University Olomouc**	
3.20-3.35 pm	COFFEE BREAK	
	Advances in Microscopic Imaging	Chair:
3.35-3.55 pm	Pavel Jelínek: Exploring Functionalities of Molecules on Surfaces by means of Scanning Probe Microscopy Institute of Physics CAS / RCPTM Palacký University Olomouc	T. Jungwirth
3.55-4.20 pm	Joseph Stroscio: Development of Scanning Tunneling Microscopy Instrumentation and Application to the Electronic Structure of Graphene Quantum Dots National Institute of Standards and Technology (US)	
4.20-4.45 pm	Sergei V. Kalinin: Imaging in Information Dimension: from Learning Physics to Atom by Atom Fabrication with Electron Beams Oak Ridge National Laboratory, University of Tennessee-Knoxville / Pennsylvania State University / Sung Kyun Kwan University	
4.45-4.50 pm	Closing Remarks of the 1 st Day	F. DelRio
4.50-4.55 pm	Closing Remarks of the 1 st Day	R. Zbořil
6.30-8.00 pm	RECEPTION AT THE US AMBASSADOR'S RESIDENCE (please arrive between 6:00-6:15 pm for security check)	

Thursday, January 18, 2018

Open to Day Two				
8.15-8.45 am	Registration & Check In			
8.45-8.50 am	Frank DelRio (National Institute of Standards and Technology)/ Radek Zbořil: Welcome and Review of the Day			
Electronics and Spintronics				
8.50-9.10 am	Tomáš Jungwirth: Spintronics: From Sensors and Data Storage to Digital and Neuromorphic Computing Institute of Physics CAS / University of Nottingham			
9.10-9.35 am	Mark Reed: Nanobioelectronics Yale University	J. D. Caldwell		









Sas-10.00 am Sas-	ace & Technos		
Colin Nuckolls: Programmed Reactivity and Self-organization as a Route to Electronic Materials Columbio University Columbio University Self-organization as a Route to Electronic Materials Columbio University Texas University of Texas University of Texas COFFEE BREAK Advances in Chemistry of Molecules and Materials Columbio University of Texas Columbio University of Organic Chemistry and Biochemistry CAS / RCPTM Polacky University Olomouc Initiative of Organic Chemistry and Biochemistry CAS / RCPTM Polacky University Olomouc Initiative of Biophysics CAS / RCPTM Polacky University Olomouc Initiative of Biophysics CAS / RCPTM Polacky University Olomouc Initiative of Biophysics CAS / RCPTM Polacky University Olomouc Initiative of Biophysics CAS / RCPTM Polacky University Olomouc Initiative Charles University Initiative Charles University Initiative Charles University of Parabibic Initiative Charles University Olomouc Initiative Charles University of Parabibic Initiative Charles University Olomouc Initiative Charles University Olomouc Initiative Charles University Olomouc Initiative Charles Charles University Olomouc Initiative Charles Charles Charles University Olomouc Initiative Charles Charles Charles University Olomouc Initiative Charles	9.35-10.00 am	and Electronics	J. D. Caldwell
University of Fexos Coffee BREAK	10.00-10.25 am	Colin Nuckolls: Programmed Reactivity and Self-organization as a Route to Electronic Materials	
Advances in Chemistry of Molecules and Materials 11.05-11.25 am Pavel Hobza: Noncovalent Interactions in Host - Guest and Protein - Ligand Complexes Institute of Organic Chemistry and Biochemistry CAS / RCPTM Palacký University Olomouc 11.25-11.45 am Jiří Šponer: Formamide-based Origin of Life Scenario Institute of Biophysics CAS / RCPTM Palacký University Olomouc 11.45-12.05 pm Jana Roithová: Trapping Reactive Intermediates Charles University of Pardubice Tharles University of Pardubice Sto New Materials University of Pardubice University of Pardubice 12.25 pm-1.25 pm LUNCH BREAK Environmental and Catalytic Technologies Rajender S. Varma: Magnetic and Carbon-based Nanocatalysts in Sustainable Chemical Transformations U.S. Environmental Pratection Agency / RCPTM Palacký University Olomouc Jiří Čejka: How to Unzip and then Zip Back again Zeolites J. Heyrovský Institute of Physical Chemistry / Charles University Center of Advanced Materials Miroslav Černík: Application of Methods Based on Zero-valent Iron Nanoparticles for Remediation of Contaminated Groundwater Institute for Nanomaterials, Advanced Technology and Innovation Technical University Liberec 1.30-2.55 pm Charles BREAK Panel Discussion Chair: Panel Discussion Science and Technology Agreement: Christopher Greller (US Department of State), Luděk Moravec (Ministry of Foreign Affairs of the Czech Republic) Funding Agencies and Opportunities: Sonia Ortega (National Science Foundation - Europe-Eurasio Office), Annti Makinen (Office of Naval Research), Stephen O'Regan (Office of Naval Research Global), Jennifer Becker (US Arrmy Research, Development and Engineering Command), Petr Matolin (Technology Agency of the Czech Republic), Alevanced Valkárová (Czech Science Foundation), Petr Pracna (Technology Centre of the CAS) A.50-4.55 pm Stephen D. O'Regan: Closing Remarks SOCIAL DINNER/BANQUET in the restaurant Nebozizek , Petřínské sady 14, Praha 1-Malá	10.25-10.50 am	, , ,	
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