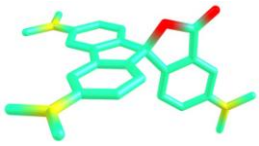

Molecules and Light 2017

IV Autumn Meeting of the Polish Photochemistry Group
Zakopane, 25-29 September 2017

Conference Program

Monday, 25 September, 2017

Monday, 25 September, 2017:	
14.00-19.00	Registration
Monday, 25 September 2017 **Evening Session: 19.00-23.00**	**Light-molecule interactions - lessons learned from Nature** Chair: Jerzy Karpiuk
19.00-19.15	Welcome address and conference opening
19.15-20.15 OL	**Opening lecture** **Wiesław Gruszecki**, Faculty of Mathematics, Physics and Information Science, Maria Curie-Skłodowska University, Lublin *Regulation of light harvesting and excitation energy transfer in the photosynthetic apparatus of plants*
20.15-23.00	**Welcome dinner**

Tuesday, 26 September 2017

Tuesday, 26 September 2017 **Morning Session: 9.00-13.00**	**Water, light and photocatalysis** Chair: Marek Sikorski
9.00-10.00 PL1	**Andrzej Sobolewski,** Institute of Physics, Polish Academy of Sciences, Warsaw *Burning water with sunlight: insights from computational chemistry*
10.00-10.30 OC1	**Olaf Morawski,** Institute of Physics, Polish Academy of Sciences, Warsaw *Photocatalytic water oxidation – the new approach to water splitting*
10.30-11.00	**Coffee break**
11.00-11.30 OC2	**Wojciech Macyk**, Faculty of Chemistry, Jagiellonian University, Kraków *Self-sensitized photocatalytic degradation of colorless organic pollutants forming surface ti(iv) complexes*
11.30-12.00 OC3	**Marcin Kobielusz**, Faculty of Chemistry, Jagiellonian University, Kraków *Spectroelectrochemical method of surface states characterization and DOS determination for titanium dioxide*
12.00-12.20 OC4	**Magdalena Mikrut,** Faculty of Chemistry, Jagiellonian University, Kraków *Photoinduced reactive oxygen species generation by particulate matter standard material SRM1648a*
12.20-12.50 OC5	**Joanna Kuncewicz**, Faculty of Chemistry, Jagiellonian University, Kraków *Spectroelectrochemical approach to estimation of bands position and density of introduced electronic states in rhodium-doped titania*
13.00-14.30	**Lunch**

Tuesday, 26 September 2017

Tuesday, 26 September 2017 **Afternoon Session: 14.30-19.00**	**Photochemistry and information processing with light** Chair: Wojciech Macyk
14.30-15.30 PL2	**Radek Cibulka,** University of Chemistry and Technology, Prague *Flavins: from yellow cofactors to useful tools in photocatalysis*
15.30-16.00 OC6	**Konrad Szaciłowski**, AGH University of Science and Technology, Kraków *Photoelectrochemical sensors, neuromimetic devices and reservoir computers*
16.00-16.30 OC7	**Karol Krzymiński,** Faculty of Chemistry, University of Gdańsk, Gdańsk *Acridinium chemiluminescent salts – physicochemistry and examples of application*
16.30-17.00	**Coffee break**
19.00-20.00	**Dinner**
Tuesday, 26 September 2017 **Evening Session: 20.00-21.00**	**Poster session**

Wednesday, 27 September 2017

Wednesday, 27 September 2017 **Afternoon Session: 9.00-13.00**	**Photophysics in various time and space scales** Chair: Gotard Burdziński
9.00-10.00 PL3	**Michel Sliwa**, University of Lille, CNRS *Synergy between serial femtosecond crystallography & transient absorption spectroscopy to reveal the dynamics of photo-switchable fluorescent proteins*
10.00-10.30 OC8	**Marek Sikorski**, Faculty of Chemistry, Adam Mickiewicz University, Poznań *Fluorescence excitation-emission spectroscopy: principles and applications*
10.30-11.00	**Coffee break**
11.00-11.45 IL1	**Michał Gil**, Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw *Supersonic jet spectroscopy of aza-aromatic molecules with intra- and intermolecular hydrogen bonds*
11.45-12.15 OC9	**Bolesław Kozankiewicz**, Institute of Physics, Polish Academy of Sciences, Warsaw *Vibronic structure of single terrylene molecules in crystalline matrices*
12.15-12.45 OC10	**Marcin Andrzejak,** Faculty of Chemistry, Jagiellonian University, Kraków *Missing states and irregularities in excited states manifold of 2,2'-bithiophene – what basis set is large enough?*
13.00-14.00	**Lunch**

Wednesday, 27 September 2017 **14.00-19.00**	**Excursion**
19.00-20.30	**Dinner**

Thursday, 28 September 2017

Thursday, 28 September 2017 **Morning Session: 9.00-13.00**	**Photodynamics and electrons** Chair: Piotr Skurski
9.00-10.00 PL4	**Stefan Lochbrunner**, Institute of Physics, University of Rostock, Rostock *Electron transfer pathways from time resolved spectroscopy*
10.00-10.45 IL2	**Janina Kopyra**, Faculty of Sciences, Siedlce University, Siedlce *Decomposition of biologically relevant molecules by electron impact*
10.45-11.15	**Coffee break**
11.15-11.45 OC11	**Gotard Burdziński**, Faculty of Physics, Adam Mickiewicz University, Poznań *Photochromic reactions of 3H-naphthopyrans*
11.45-12.15 OC12	**Michał Rode**, Institute of Physics, Polish Academy of Sciences, Warsaw *Excited state relaxation pathways in substituted phthalides*
12.15-12.45 OC13	**Iwona Grądzka**, Faculty of Physics, Adam Mickiewicz University, Poznań *Photodynamics of ruthenium dyes interacting with titania nanoparticles for solar cells and water splitting systems*
13.00-14.30	**Lunch**

Thursday, 28 September 2017 **Afternoon Session: 15.00-18.00**	**Panel Discussion:** **Problems, dillemas and predictions - the future of science on Molecules and Light**
15.00-16.15 **Part 1**	**Jerzy Karpiuk**, Institute of Physics, Polish Academy of Sciences, Warsaw *Chair and Introduction*
	Andrzej Sobolewski, Institute of Physics, Polish Academy of Sciences, Warsaw *Organic photovoltaics with p-f-n junctions: A computational suggestion*
	Stefan Lochbrunner, Institute of Physics, University of Rostock, Rostock *Molecular nanostructures for photonics: some challenges*
	Wojciech Macyk, Faculty of Chemistry, Jagiellonian University, Kraków *Bandgap determination: shall we rely on DRS measurements?*
	Open discussion
16.15-16.45	**Coffee break**
16.45-18.00 **Part 2**	**Marek Sikorski**, Faculty of Chemistry, Adam Mickiewicz University, Poznań *Between success and failure: The history of Singlet Oxygen*
	Piotr Skurski, Faculty of Chemistry, University of Gdańsk, Gdańsk *Novel aspects of the key process in the Fischer-Tropsch synthesis: transition-metal-free catalysis of carbon monoxide hydrogenation reaction*
	Jerzy Karpiuk, Institute of Physics, Polish Academy of Sciences, Warsaw *Charge transfer triplet states - still elusive or yet promissing?*
	Open discussion

Thursday, 28 September 2017 **Evening, 19.00 – 23.00**	**Conference Dinner**

Friday, 29 September 2017

Friday, 29 September 2017 **Morning Session: 9.00-12.00**	**Proton and electron transfer** Chair: Andrzej Sobolewski
9.30-10.15 IL3	**Leszek Łapiński**, Institute of Physics, Polish Academy of Sciences, Warsaw *Solid H_2 versus solid noble-gases: Matrix-environment effect on photoinduced hydrogen-atom transfer in heterocyclic compounds*
10.15-10.45 OC14	**Cristina Barboza**, Institute of Physics, Polish Academy of Sciences, Warsaw *Revealing the dynamics of the excited proton transfer of a π-conjugated salicylidene compound*
10.45-11.15	**Coffee break**
11.15-11.45 OC15	**Jerzy Karpiuk**, Institute of Physics, Polish Academy of Sciences, Warsaw *Intramolecular electron transfer in solid hosts*
11.45-12.00	**Closing remarks**
12.30-13.30	**Lunch**

Posters:

P1	**Iwona Anusiewicz, Piotr Skurski**, Faculty of Chemistry, University of Gdańsk, Gdańsk *Formation of H_3O^+ cations due to aluminum fluoride*
P2	**Paweł Gawryś**, Institute of Physics, Polish Academy of Sciences, Warsaw *Synthesis and photophysics of phthalide-based white fluorophores*
P3	**Hanna Grajek**, Department of Physics and Biophysics, University of Warmia and Mazury in Olsztyn, Olsztyn *The effect of temperature and light on tetracycline degradation by Na[Fe(EDTA)] and Fe(III)citrate*
P4	**Agnieszka Jarosz**, Faculty of Chemistry, Jagiellonian University, Kraków *Two synthetic approaches for the preparation of core-shell upconverting nanoparticles*
P5	**Paulina Majewska**, Faculty of Chemistry, Jagiellonian University, Kraków *Core-shell upconverting nanoparticles coated with surface-modified titania for photocatalytic applications*
P6	**Paweł Mikrut**, Faculty of Chemistry, Jagiellonian University, Kraków *Photocatalysis at shaped TiO_2 crystals*
P7	**Dorota Prukała**, Faculty of Chemistry, Adam Mickiewicz University, Poznań *Photophysical properties of E-hydroxystilbazols in dependence of pH*
P8	**Mateusz Trochowski**, Faculty of Chemistry, Jagiellonian University, Kraków *Hydroxy derivatives of anthraquinone as TiO_2 sensitizers*
P9	**Olena Vakuliuk**, Institute of Organic Chemistry, Polish Academy of Sciences, Warsaw *Isoindolo[5,8]diones - structurally unique fluorescent dyes*
P10	**Jacek Wierzchowski**, Department of Physics and Biophysics, University of Warmia and Mazury in Olsztyn, Olsztyn *Excited-state proton transfer in purine analogues: kinetic analysis*