

## The X<sup>th</sup> Winter Biophysical Workshop presentations' schedule.

### Monday, February 5th

Session PM1 (opening session) 15:50-17:30	
Chairman: <b>Adam Patkowski</b>	
Welcome and Workshop opening <b>Jacek Gapiński</b> , Faculty of Physics, Adam Mickiewicz University (AMU), Poznań	10'
<i>DNA repair in bacteria at the single-molecule level</i> <b>Stephan Uphoff</b> , Department of Biochemistry, University of Oxford	25' + 5'
<i>Solving topological problems within bacterial chromosome – single molecule perspective</i> <b>Paweł Zawadzki</b> , Molecular Biophysics Division, AMU	25' + 5'
<i>Hybrid photosynthesis</i> <b>Sebastian Maćkowski</b> , Institute of Physics, Nicolaus Copernicus University (NCU)	25' + 5'
Coffee break	
Session PM2 18:00-19:30	
Chairman: <b>Jacek Gapiński</b>	
<i>Extremophilic photosystem I: improving Nature for solar energy conversion</i> <b>Joanna Kargul</b> , Centre of New Technologies (CeNT), University of Warsaw	25' + 5'
<i>Molecular analysis of intrinsically disordered regions of nuclear receptor Ultraspiracle</i> <b>Krzysztof Wycisk</b> , Dept. of Biochemistry, Wrocław University of Science and Technology (WUST)	25' + 5'
<i>Determination of molecular interactions in solutions from the motion of single molecule</i> <b>Xuzhu Zhang</b> , Institute of Physical Chemistry (IPC), Polish Academy of Sciences, Warsaw	25' + 5'

### Tuesday, February 6th

Session AM1 9:00-11:00	
Chairman: <b>Krzysztof Gibasiewicz</b>	
Presentation of the ZEISS company representative	30'
Presentation of <b>Józef Dresner</b> , Eurotek International, Warsaw	30'
<i>Electrochemical characterization of LHCI complexes deposited on graphite electrode</i> <b>Maciej Garstka</b> , Faculty of Biology, University of Warsaw (UW)	15'+5'
<i>LHCI phosphorylation under dark-chilling conditions</i> <b>Radosław Mazur</b> , Faculty of Biology, University of Warsaw (UW)	15'+5'
Coffee break	
Session AM2 11:30-13:30	
Chairman: <b>Andrzej Dobek</b>	
<i>Chloroplast wake up</i> <b>Wiesław Gruszecki</b> , Faculty of Mathematics, Physics and Computer Science, Maria Curie Skłodowska University in Lublin	25' + 5'
<i>Orientation of carotenoids in lipid membranes</i> <b>Wojciech Grudziński</b> , Faculty of Mathematics, Physics and Computer Science, Maria Curie Skłodowska University in Lublin	25' + 5'
<i>Photosynthetic proteins in photovoltaics</i> <b>Krzysztof Gibasiewicz</b> , Faculty of Physics, Adam Mickiewicz University (AMU), Poznań	25' + 5'
<i>Cathodic and Anodic Photocurrents from Rhodobacter sphaeroides Reaction Centers Immobilized on Titanium Dioxide</i> <b>Rafał Bialek</b> , Faculty of Physics, Adam Mickiewicz University (AMU), Poznań	25' + 5'
Lunch break	

Session PM1 15:00-16:30	
Chairman: <b>Wiesław Gruszecki</b>	
<i>Excitation dynamics in Photosystem I immobilized onto conductive and non-conductive surface</i> <b>Sebastian Szewczyk</b> , Faculty of Physics, Adam Mickiewicz University, Poznań	25' + 5'
<i>Fluorescence enhancement of photosynthetic complexes</i> <b>Karolina Sulowska</b> , Institute of Physics, Nicolaus Copernicus University, Toruń	10'+5'
<i>Direct observation of THz Kerr Effect (TKE) in deionized, distilled and buffered (PBS) water</i> <b>Andrzej Dobek</b> , Faculty of Physics, Adam Mickiewicz University, Poznań	45'+5'
Coffee break	
Session PM2 17:00-18:30	
Chairman: <b>Michał Banaszak</b>	
<i>Evolution of Escherichia coli under mechanical stress induced by nanoparticles</i> <b>Kinga Matuła</b> , Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw	25' + 5'
<i>Non-uniform diffusion in E. coli as a function of a position in a cell</i> <b>Katarzyna Kryszczuk</b> , Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw	25' + 5'
<i>Non-standard behavior of standard dyes in FCS experiments</i> <b>Marta Waligórska</b> , Faculty of Chemistry, Adam Mickiewicz University, Poznań	25' + 5'

### Wednesday, February 7<sup>th</sup>

Session AM1 9:30-11:30 (!!!)	
Chairman: <b>Jacek Gapiński</b>	
<i>Biochemical and biophysical characteristics of the C-terminal region of ecdysteroid receptor from Aedes aegypti</i> <b>Anna Więch</b> , Dept. of Biochemistry, Wrocław University of Science and Technology	25' + 5'
<i>Statistical analysis of Particle Tracking experiment</i> <b>Adam Patkowski</b> , Faculty of Physics, Adam Mickiewicz University, Poznań	25' + 5'
<i>Fluorescence correlation spectroscopy analysis of length-scale dependent viscosity in nuclei of cancerous cells in vivo</i> <b>Grzegorz Bubak</b> , Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw	25' + 5'
<i>Cell cycle-dependent fluctuations of protein mobility in cytoplasm of HeLa cell</i> <b>Krzysztof Szczepański</b> , Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw	25' + 5'
Coffee break	
Session AM2 12:00-14:00	
Chairman: <b>Paweł Zawadzki</b>	
<i>General method for quantification of oligomerization of proteins in living cells</i> <b>Karina Kwapiszewska</b> , Institute of Physical Chemistry, Polish Academy of Sciences, Warsaw	25' + 5'
<i>Role of UvrD protein in Nucleotide Excision Repair</i> <b>Elżbieta Kaja</b> , Faculty of Physics, Adam Mickiewicz University, Poznań	15' + 5'
<i>In vitro analysis of UvrABCD proteins</i> <b>Donata Janickaite</b> , Faculty of Physics, Adam Mickiewicz University, Poznań	15' + 5'
<i>Antisense transcription regulation in A. thaliana</i> <b>Justyna Kowalczyk</b> , Faculty of Physics, Adam Mickiewicz University, Poznań	15' + 5'
<i>UvrC protein in Nucleotide Excision Repair</i> <b>Alicja Piotrowska</b> , Faculty of Physics, Adam Mickiewicz University, Poznań	15' + 5'
Lunch break	
Session PM1 15:30-17:30 (last session)	
Chairman: <b>Ewa Banachowicz</b>	
<i>Meibomian Gland Dysfunction</i> <b>Kamila Ciężar</b> , Faculty of Physics, Adam Mickiewicz University, Poznań	35'+5'
<i>Random Phase Approximation for Multiblock Copolymers: Theory and Experiment</i> <b>Michał Banaszak</b> , Faculty of Physics, Adam Mickiewicz University, Poznań	35'+5'
<i>Statistical analysis of Particle Tracking experiment</i> <b>Jacek Gapiński</b> , Faculty of Physics, Adam Mickiewicz University, Poznań	35'+5'
Dinner 17:45	

Posters will be presented in the designated place continuously during the Workshop.