Warsaw Soft Matter Day- tentative schedule

Event day and location: Friday, 6th of October, 2023, Institute of Physical Chemistry of the Polish Academy of Sciences

9:00- 9:10- opening

9:10- 11:10- lecture session 1

- 9:10- 9:50 Maciej Lisicki (University of Warsaw)
  keynote lecture: „Kitchen flows"
- 9:50- 10:10 Rafał Błaszkiewicz (University of Warsaw)
  "Microscale hydrodynamic flows created by beating cilia"
- 10:10- 10:30 Anna Niedźwiedzka (Institute of Physics, Polish Academy of Sciences)
  'Hydrodynamics and interactions of intrinsically disordered proteins"
- 10:30- 10:50 Łukasz Klotz (Warsaw University of Technology)
  "Influence of porous material on the flow behind backward-facing step - experimental study"
- 10:50- 11:10 Shreyas Vasantham (Institute of Physical Chemistry, Polish Academy of Sciences)
  "Optohydrodynamic tweezers for single cell manipulation"

11:10- 11:35- coffee break

11:35- 13:15- lecture session 2

- 11:35- 11:55 Karol Makuch (Institute of Physical Chemistry, Polish Academy of Sciences)
  "Diffusion and flow in complex liquids"
- 11:55- 12:15 Michał Dzikowski (University of Warsaw)
  "Resolution sensitivity of dissolution instability simulations"
- 12:15- 12:35 Roland Terrazas Mallea (Institute of Physical Chemistry, Polish Academy of Sciences)
  "Avalanche-like relaxation dynamics of 2D-printed soft-granular structures"
- 12:35- 12:55 Małgorzata Przerwa (University of Warsaw)
  "Sedimentation of mass-asymmetric dumbbells in Stokes flow"
- 12:55- 13:15 Mateusz Wdowiak (Institute of Physical Chemistry, Polish Academy of Sciences)
  "Protein-binding dyes as molecular sunscreen protecting bacteriophages from UV radiation."

13:15- 14:30- lunch (in the form of a warm buffet), concurrently with the **poster session**

14:30- 16:10- lecture session 3

- 14:30- 14:50 Mateusz Wiliński (Los Alamos National Laboratory)
  "Network Reconstruction from Noisy and Incomplete Spreading Dynamics"
- 14:50- 15:10 Barbara Klepka (Institute of Physics, Polish Academy of Sciences)
  "Coral acid-rich protein-mediated emergence of calcium carbonate spherulitic structures"
- 15:10- 15:30 Elżbieta Jarosińska (Institute of Physical Chemistry, Polish Academy of Sciences)
  "Enabling electrochemical study in cell culture application"
- 15:30- 15:50 Ilyas Djafer-Cherif (Institute of Physical Chemistry, Polish Academy of Sciences)
  "Machine learning aided image segmentation for biology"
- 15:50- 16:10 Tomasz Szawełło (University of Warsaw)
  "Hydrochemical transformations in a pore-network model"

16:10- 16:30- discussion about the future of the meeting, closing of the Warsaw Soft Matter Day

16:30-17:00- tea, cookies and good-byes

<u>List of posters</u>

1. Ranjana Rathaur (Institute of Physics, Polish Academy of Sciences)

"Influence of contact angle liquid draining"

2. Russell Kajouri (Institute of Physics, Polish Academy of Sciences)

"Unidirectional Droplet Propulsion onto Gradient Brushes without External Energy Supply",

3. Luis Carnevale (Institute of Physics, Polish Academy of Sciences)

"Liquid Thread Breakup and the Formation of Satellite Droplets"

4. Soheil Arbabi (Institute of Physics, Polish Academy of Sciences)

"Coalescence of surfactant-laden droplets"

5. Panagiotis Theodorakis (Institute of Physics, Polish Academy of Sciences)

"Rugotaxis: Droplet motion without external energy supply"

6. Aneta Karpińska (Institute of Physical Chemistry of the Polish Academy of Sciences)

"Nanostructure of polymeric solution impacts the effectiveness of intracellular delivery by osmotic shock"