

SCHEDULE of The International Seminar

“Young4SoftMatter” – 2nd Polish-Slovenian Edition

Times listed for the time zone GMT+2



POLISH-SLOVENIAN EDITION

1st day - MONDAY, June 26th, 2023

CHAIRMEN: prof. Zdravko Kutnjak, prof. Sylwester J. Rzoska

- 8:40 - 10:10** Greeting all participants
Opening Lecture by **Prof. Veronika Kralj-Iglič** “Membrane curvature - ancient language of crosstalk between life domains”
- 10:10 - 10:30** **Mohammed Mukaram** - “Food Biotechnology” (INDIA)
- 10:30 - 10:50** **Sabir Khan** - “Illumination on oxygen and carbon dioxide as fundamental part of human life” (INDIA)
- 10:50 - 11:10** **Syed Rahmanullah Shah** - “Ameliorative effect of panax ginseng essential oil on atrazine-induced intoxication and its impact on growth as well as hematology and biochemistry of grass carp” (PAKISTAN)
- 11:10 - 11:30** **Rashid Khan** - “Biological Soft Matter” (INDIA)
- 11:30 - 11:50** **Szymon Starzonek** - “From liquid crystals to biomembranes - the simplest model” (SLOVENIA)
- 11:50 - 12:00** BREAK
- 12:00 - 12:20** **Mitja Drab** - “Monte-Carlo simulations of closed membrane vesicles with embedded anisotropic molecular complexes” (SLOVENIA)
- 12:20 - 12:40** **Shaharyar Mansoor** - “A simulation study of structural, elastic and optoelectronic properties of aluminium based fluoroperovskite $AlXF_3$ ($X = Ca, Cd$ and Be)” (PAKISTAN)
- 12:40 - 13:00** **Maciej Nowagiel** - “Stabilization of delta Bi_2O_3 phase at room temperature by thermal nanocrystallization of bismuth oxide glasses” (POLAND)
- 13:00 - 13:20** **Aleksander Szpakiewicz-Szatan** - “Novel High-Pressure Nanocomposites for Energy Conversion and Storage” (POLAND)
- 13:20 - 14:00** BREAK
- 14:00 - 14:20** **Sachin Kumar** - “Environmentally benign utilization of waste fly ash for industrial construction application” (INDIA)
- 14:20 - 14:40** **Dejvid Črešnar** - “The Elastocaloric Effect in Main-Chain Liquid Crystalline Elastomers” (SLOVENIA)
- 14:40 - 15:00** **Anton Hul** - “Investigation of physical properties of SiO_2 nanostructures using molecular dynamics simulations” (POLAND)
- 15:00 - 15:20** **Krzysztof Gadomski** - “Synthesis and characterisation of glassy and nanocrystalline analogues of $LiFePO_4$ olivines” (POLAND)
- 15:20 - 15:50** Plenary Lecture by. **Prof. Aleksander Zidanšek** “Phase behavior of nanoparticle-nematic liquid crystal mixtures”
- 15:50 - 16:10** Summary (Chairmen)

2nd day – TUESDAY, June 27, 2023



CHAIRMEN: prof. Kazimierz Orzechowski, prof. Ales Iglič

- 9:00 - 10:00** Greeting all participants
Opening lecture by **prof. Kazimierz Orzechowski** - **“NDE - why not?”**
- 10:10 - 10:30** **Toheeb Akanbi Musliudeen** - *“The Structure of Nigeria economy: Reforms, prospects and challenges”* (NIGERIA)
- 10:30 - 10:50** **Agata Angelika Rzoska** - *“Remarks on the Global Population & Economic Growth in the Industrial Revolutions Era”* (POLAND)
- 10:50-11:00** Introduction of prof. Rodolfo Baggio
- 11:00-11:30** **Special Lecture by Prof. Rodolfo Baggio** - **“Tourism phenomena and systems: a physicist’s point of view”**
- 11:30 - 13:00** Q&A with the Scientific Council
- 13:00 - 14:00** BREAK
- 14:00 - 14:20** **Luka Mesarec** - *“The impact of curved nematic molecules on equilibrium shapes of closed flexible nematic shells”* (SLOVENIA)
- 14:20 - 14:40** **Blaž Švajger** - *“Ferronematic slave-master behavior”* (SLOVENIA)
- 14:40 - 16:25 - POSTER SESSION**
- 14:40 - 14:55** **Agata Angelika Rzoska** - *“The Story about One Island, Four Cities & the Socio-Economic Soft Matter: The Growth and Decay Report”* (POLAND)
- 14:55 - 15:10** **Sonika Kundu** - *“Hydrogels: Boon for Agriculture to enhance crop productivity under drought conditions”* (INDIA)
- 15:10 - 15:25** **Aleksander Szpakiewicz-Szatan** - *“High-pressure phase diagram and phase contents in glass containing bismuth, aluminium and silicon oxides”* (POLAND)
- 15:25 - 15:40** **Andreja Abina** - *“Phase behavior of nematic-nanoparticle mixtures”* (SLOVENIA)
- 15:40 - 15:55** **Joanna Łoś** - *“Pressure-induced near-continuous isotropic-nematic transition”* (POLAND)
- 15:55 - 16:10** **Tim Javornik** - *“Sensors based on structural transitions in nematic liquid crystal droplets”* (SLOVENIA)
- 16:10 - 16:25** **Jakub Kalabiński** - *“A new take on phase equilibria and critical behavior in mixtures of limited miscibility”* (POLAND)
- 16:25 - 16:35** Summary (Chairmen)

3rd day – WEDNESDAY, June 28, 2023



CHAIRMEN: dr. Szymon Starzonek, dr. Mitja Drab

9:00 - 9:20	Greeting all participants
9:20 - 9:40	Saša Harkai - <i>“Reconfiguration of nematic disclinations”</i> (SLOVENIA)
9:40 - 10:00	Arbresha Hölbl - <i>“Stabilization of topological defects in nematic liquid crystals”</i> (SLOVENIA)
10:00 - 10:20	Karol Kulacz - <i>“Influence of guest molecules on dielectric relaxation of modified smectites”</i> (POLAND)
10:20 - 10:40	Rashid Khan - <i>“Molecular Self-Assembly”</i> (INDIA)
10:40 - 10:50	BREAK
10:50 - 11:10	Joanna Łoś - <i>“The impact of ions and pretransitional fluctuations on dielectric properties of liquid-crystal-based nanocolloids”</i> (POLAND)
11:10 - 11:30	Apparao Gudimalla - <i>“The impact of magnetic nanoparticles on the stability of BP and TGBA phases”</i> (SLOVENIA)
11:30 - 11:50	Maha Zid - <i>“Stabilization of topological defects in nematic liquid crystals”</i> (SLOVENIA)
11:50 - 12:10	Muhammad Nasir - <i>“Photoluminescent investigation of cerium and terbium doped $\text{Li}_6\text{LuY}(\text{BO}_3)_3$ phosphor”</i> (PAKISTAN)
12:10 - 13:10	BREAK
13:10 - 13:30	Hammad Haider - <i>“Synthesis and photoluminescent study of dysprosium doped $\text{Ca}_3\text{Gd}_2(\text{BO}_3)_4$ phosphors”</i> (PAKISTAN)
13:30 - 13:50	Adam Puchalski - <i>“Numerical calculations of the heat conductivity of SiO_2 glass subjected to ultra-high pressure using molecular dynamics”</i> (POLAND)
13:50 - 14:10	Viktoriiia Vlasenko - <i>“Searching for the interatomic potentials in the LiTa_2PO_8 superionic solid-state electrolyte”</i> (POLAND)
14:10 - 14:30	Jakub Kalabiński - <i>“Premelting effects in dielectric studies of nitrobenzene under compression”</i> (POLAND)
14:30 - 15:00	Closing lecture - <u>prof. S. J. Rzoska “The New Philosophers Stone & Closing remarks”</u>
15:00 - 15:30	CLOSING DISCUSSION AND SUMMARY BY DIRECTORS