

Tentative program 11 Seminar "Porous Glasses-Special Glasses" PGL'18

12.09.2018	Wroclaw University of Science and Technology
15.00	Departure to Szklarska Poreba
19.00	Welcome dinner
13.09.2018	Szklarska Poręba
9.00- 9.40	Wilhelm Schwieger, <i>Institute of Chemical Reaction Engineering, Friedrich-Alexander-University Erlangen- Nuremberg, Germany</i> Transformation of porous glass into hierarchical porous systems: a historical perspective - invited lecture
9.40-10.05	Stephan A. H. Sander, <i>Institute of Physics, Martin Luther University Halle-Wittenberg, Germany</i> Long term phase separation in sodium borosilicate glass
10.05- 10.30	Marina Konon, <i>Institute of Silicate Chemistry, Russian Academy of Sciences, Saint-Petersburg, Russia</i> The phase separation phenomenon in the Na₂O-B₂O₃-SiO₂-Fe₂O₃ glass-forming system and its application for producing porous glasses
10.30	Coffee break
11.00-11.30	Renata Reisfeld, <i>The Hebrew University of Jerusalem, Israel</i> Luminescence in porous materials for possible utilization for solar energy - invited lecture
11.30-11.55	Marek Nocuń, <i>AGH University of Science and Technology, Kraków, Poland</i> Application of surface plasmon resonance to determine the refractive index of sol-gel coatings
11.55-12.20	Marta Prześniak-Welenc, <i>Faculty of Applied Physics and Mathematics, Department of Solid State Physics, Gdansk University of Technology, Poland</i> Sol-gel synthesis of TeO₂-based materials
12.20-12.45	Natalia Pawlik, <i>University of Silesia, Institute of Chemistry, Katowice, Poland</i> Fabrication of fluoride nanocrystals in sol-gel materials and their spectroscopic properties
13.00	Lunch
14.30-15.10	Sharon Krenkel, <i>Technical University of Ilmenau, Department of Mechanical Engineering, Inorganic Non-metallic Materials Group, Germany</i> Innovative shaping processes for complex nanoporous glass materials – invited lecture
15.10-15.50	Elena V. Charnaya, <i>St. Petersburg State University, Petergof, Russia</i> Nanoporous silica matrices loaded with ferroelectric and metallic particles: NMR and magnetic studies - invited lecture
15.50-16.20	Agnieszka Cizman, <i>Wroclaw University of Science and Technology, Poland</i> Nanocomposites based on porous matrices- invited lecture
16.20	Coffee break
16.45-17.25	Barbara Kościelska, <i>Faculty of Applied Physics and Mathematics, Department of Solid State Physics, Gdańsk University of Technology, Poland</i> Tellurite glasses and glass ceramics as matrixes for white light-emitting diodes - invited lecture
17.25-17.50	Bożena Burtan- Gwizdala, <i>Institute of Physics, Cracow University of Technology, Cracow, Poland</i> Spectroscopic properties of Er³⁺-doped fluorotellurite glasses modified by Nb₂O₃ and WO₃
17.50-18.15	Agata Górny, <i>University of Silesia, Institute of Chemistry, Katowice, Poland</i> Glasses emitting white light

18.15 **Supper**

14.09.2018

9.00-9.40 Rustem Valiullin, *University of Leipzig, Germany*
Phase equilibria and molecular transport in mesoporous solids – invited lecture

9.40- 10.05 Alexandra Inayat, *Institute of Chemical Reaction Engineering, University Erlangen-Nürnberg, Germany*
Pseudomorphic transformation of porous glasses into MCM-41

10.05-10.30 H. Uhlig, *Institut für Nichtklassische Chemie e.V., Leipzig, Germany*
Synthesis of MCM-41 core shell and MCM-48 particles based on pseudomorphic transformation of porous glasses

10.30 **Coffee Break**

10.55- 11.20 Tatiana Antropova, *Institute of Silicate Chemistry of Russian Academy of Sciences (ISCh RAS), Saint-Petersburg, Russia*
New luminescent materials on the basis of silicate nanoporous glass matrices - invited lecture

11.20-11.45 Ekaterina Mikhaleva, *Kirensky Institute of Physics, Federal Research Center KSC SB RAS, Krasnoyarsk, Russia*
Effect of interaction of components on thermal properties of ferroelectric Nanocomposite

11.45-12.10 Aleksandr Sivers, *ITMO University, St.-Petersburg, Russia*
Fabrication of molecular barriers in porous glass

12.20 **Lunch**

13.00 **Excursion**

19.00 **Conference dinner**

15.09.2018

9.00- 9.40 Hans Roggendorf, *Institute of Physics, Martin Luther University Halle-Wittenberg, Germany*
Porous sodium borosilicate glasses by inorganic sol-gel processing with sodium water glasses as starting materials - invited lecture

9.40-10.05 Stephan A. H. Sander, *Institute of Physics, Martin Luther University Halle-Wittenberg, Germany, Germany*
Influence of (metal) oxide additives on the phase separation of sodium borosilicate glasses

10.05- 10.30 Alexandr Sivers /Yaroslava Andreeva, *ITMO University, Saint Petersburg, Russia*
Laser synthesis of Cu-SiO₂ nanocomposite films with controllable particle sizes

10.30 **Coffee break**

11.00- 11.40 Ryszard J. Barczyński, *Department of Solid State Physics; Faculty of Applied Physics and Mathematics, Gdańsk University of Technology, Poland*
Electrical conductivity processes in transition metal oxide glasses containing nanostructures - invited lecture

11.40- 12.20 Manuela Reben, *Faculty of Materials Science and Ceramics, AGH – University of Science and Technology, Cracow, Poland*
Influence of modifiers on the thermal and optical properties of TeO₂-P₂O₅-ZnO-PbF₂ glasses - invited lecture

12.20-12.45 Natalia A. Wójcik, *Gdańsk University of Technology, Poland*
Influence of synthesis conditions on glass formation, structure, thermal and electrical properties in the Na₂O-CaO-P₂O₅ system doped with Si₃N₄ and Mg

13.00 **Lunch**

14.30 -15.10 Wojciech A. Pisarski, *University of Silesia, Institute of Chemistry, Katowice, Poland*
Rare earth doped glasses for solid-state lighting - invited lecture

15.10-15.50 Dominik Dorosz, *AGH University of Science and Technology, Faculty of Materials*

Science and Ceramics, Krakow, Poland

Optical and structural properties of barium-gallo-germanate and barium-tellurite-phosphate glasses doped with Eu^{3+} ions – invited lecture

15.50

Coffee break

16.15-16.55

Lidia Zur, *Centro di Studi e Ricerche "Enrico Fermi", Roma and IFN-CNR CSMFO Lab. and FBK Photonics Unit, Trento, Italy*

SiO_2 - SnO_2 glass-ceramics activated by Er^{3+} ions for photonics applications - invited lecture

16.55-17.20

Marek Nocuń, *AGH University of Science and Technology, Kraków, Poland*

Studies of silver diffusion into soda-lime glass by analysis of plasmon evolution

19.00

Barbeque