

**CZ-UK Workshop on Nanomaterials – Karolinum (Patriotic Hall)
Prague, October 22-23, 2019**

Tuesday, October 22

13:00-14:00		Registration
14.00-14.30		Opening Ceremony British Ambassador – HMA Nick Archer Science attaché of the British Embassy – Dr. Otakar Fojt Key foreign researcher of CUCAM project – Prof. Russell E. Morris
14:30-15:15	PL1	Andrew Goodwin (Oxford) Disorder of solids
15:15-16:00	PL2	Michal Otyepka (Regional Centre of Advanced Technologies and Materials, Palacký University Olomouc) Chemistry of Fluorographene, From Understanding to Applications
16:00-16:30		Coffee Break & Posters
16:30-17:15	PL3	Paul Attfield (Edinburgh University) Magnetic Materials Discovery using High Pressure
17:15-18:00	PL4	Radek Zbořil (Regional Centre of Advanced Technologies and Materials, Palacký University Olomouc) Low-dimensional carbon nanosystems with exceptional magnetic and fluorescence properties

Wednesday, October 23

9:15-10:00	PL5	Joe Hriljac (Birmingham) Synchrotron studies
10:00-10.45	PL6	Pavel Jelínek (Institute of Physics, Prague) 1D molecular chains on surfaces: experiment and theory
10:45-11:15		Coffee Break & Posters
11:15-12:00	PL7	Phoebe Allan (Birmingham) Structural studies of battery materials
12:00-12:45	PL8	Jiří Málek (University of Pardubice) Crystal growth in supercooled liquids
12:45-14:00		Lunch (at Karolinum)
14:00-14:45	PL9	Richard Catlow (Cardiff University) Structure, Dynamics and Reactivity in Micro- and Nano-Porous Catalytic Systems
14:45-15:30	PL10	Petr Nachtigall (Faculty of Science, Charles University, Prague) Catalysis modeling in operando conditions
15:30-16:00		Coffee Break & Posters
16:00-16:45	PL11	Rob Bell (UCL) Computation of porous materials
16:45-17:30	PL12	Maksym Opanasenko (Faculty of Science, Charles University, Prague) Disassembly-reassembly techniques for design of new zeolites
17:30-17:45		Concluding Remarks
19:00		Social Evening (Wine Food Restaurant, Praha Smíchov)

SPONSORS



POSTERS

1. Boron nitride as a catalyst for oxidative dehydrogenation of light alkanes
M. Sajad, R. Bulanek
2. Crystal growth and viscosity in $(\text{GeSe}_2)_x(\text{Sb}_2\text{Se}_3)_{1-x}$ materials
D. Valdés, J. Barták, P. Košťál, J. Málek
3. Surface self-diffusion in chalcogenide glasses and thin films
J. Barták, D. Valdés, J. Málek
4. Amorphous-to-crystalline transformation in TiO_2 nanotube layers
R. Svoboda
5. Activated Carbons Prepared by Microwave Pyrolysis
M. Vaštyl, Z. Jankovská, G.J. Francisco Czuz, L. Matějová
6. Pt/Ti_xZr_(1-x)O_n Catalysts in Oxidation of Dichloromethane and Perchloroethylene
E. Kinnertová, L. Matějová, S. Pitkäaho, D. Fridrichová, Z. Matěj, R.L. Keiski
7. Modelling of carbon nanostructures
M. Langer
8. Graphene derivatives in catalysis
R. Langer
9. Mechanochemically Assisted Hydrolysis in the ADOR Process
D.N. Rainer, C.M. Rice, S.E. Ashbrook, R.E. Morris
10. Oxygen ion dynamics in doped bismuth oxides studied using high-temperature solid-state NMR
M. Dunstan, D. Halat, I. Radosavljevic Evans, C.P. Grey
11. Thermal decomposition of zeolite A to form superparamagnetic precursors for zeolite synthesis
D.P. Smith, J.A. Hriljac, P.A. Anderson
12. Fluorination of zeolite frameworks
D. S. Parsons, A. Ingram and J. A. Hriljac
13. Application of The Correlative Probe and Electron Microscopy (CPEM) in Advanced Sample Surface Analysis
V. Hegrová, V. Novotná, Z. Nováček, J. Horák, J. Neuman
14. Computational study of the Methanol to Hydrocarbons process
S. Nastase, A. Logsdail, R. Catlow
15. Using Pair Distribution Function to Probe the ADOR Process
S.E. Russell, S.E. Henkelis, S.A. Morris, R.E. Morris
16. Natural clay, vermiculite, as a potential catalyst for organic reactions
P. Grussmann, P. Golis, D. Cvejn, J. Přeck, I. Martausová
17. Magnetic textures in non-magnetic systems
E. H. Wolpert and A. L. Goodwin
18. Slow disassembly of the UTL germanosilicate
O. Veselý, M. Kubů, A. Erlebach
19. Nanostructured Metal Oxides Prepared by Using Pressurized Hot and Supercritical Fluid Crystallization
L. Matějová
20. Nanostructured CuO-ZnO and TiO_2 -CuO prepared by various methods and comparison of their photocatalytic activity
Z. Jankovská, E.R. Mendoza, M. Vaštyl, J.L. Solis, M. Gomez, L. Matějová
21. Comparison of the catalytic activity of hierarchical Beta zeolites obtained in concentrated reaction mixtures
R. Barakov, M. Opanasenko, J. Čejka
22. Encapsulation of metal nanoparticles within zeolite framework via 2D to 3D transition
M. Mazur, Y. Zhang, M. Kubů, J. Čejka