10th Workshop of Slovak Clay Group

CLAY MINERALS AND SELECTED INDUSTRIAL MINERALS IN MATERIAL SCIENCE, APPLICATIONS, AND ENVIRONMENTAL TECHNOLOGY

24. – 26. 6. 2024 Hotel Kukučka, Tatranská Lomnica, SLOVAKIA



PROGRAM

ORGANIZATOR:

Slovak Clay Group, the Institute of Inorganic Chemistry, Faculty of Natural Sciences Comenius University

ORAL PRESENTATIONS

Monday, 24.6.	
12:30 - 13:30	Lunch
14:25 -	Opening
14:30 - 14:50	THERMALLY TREATED PALYGORSKITE FOR TABLE OLIVE WASTEWATER
	TREATMENT
	C. Lazaratou and D. Vayenas
14:50 - 15:10	HALLOYSITE AS SORBENT OF DICLOFENAC FOR PHARMACEUTICAL AND
	ENVIRONMENTAL USES
	E. Gianni et al.
15:10 - 15:30	MECHANICAL PROPERTIES OF SMECTITE CLAYS AND CLAY-POLYMER HYBRIDS BY
	DFT-D3 METHOD
	S. Bashir et al.
15:30 - 15:50	COFFEE BREAK
15:50 - 16:10	ADSORPTION INDUCED LUMINESCENCE: INSIGHTS FROM THEORY
	Š. Budzák et al.
16:10 - 16:30	ANTIMICROBIAL SURFACES OF POLYMERS IN THE FORM OF THIN COMPOSITE
	ACTIVE LAYERS
	J. Bujdák et al.
16:30 - 16:50	HYDROGEL NANOCOMPOSITES WITH ANTIMICROBIAL AND PHOTOACTIVE
	MOLECULES
	V. George et al.
16:50 - 17:10	ENHANCED PHOTOFUNCTIONAL PROPERTIES OF HYBRID SYSTEMS COMPOSED OF
	BENZOTHIAZOLE-BASED DYES AND LAYERED SILICATES
	V. Planetová et al.
18:00	Dinner

Tuesday, 25.6.			
07:00 - 09:00	Breakfast		
09:00 - 11:00	CLOSING MEETING TO PROJECT APVV-19-0487 - BIONANOCOMPOSITES BASED ON		
	ORGANIC POLYCATIONS AND LAYERED SILICATES		
	J. Madejová		
12:00 - 13:00	LUNCH		
17:00 - 18:00	POSTER SESSION (CONGRESS ROOM)		
19:00	Buffet Dinner		

WEDNESDAY, 26.6.			
07:30 – 09:00	Breakfast		
09:15 - 09:35	CHITOSAN-BASED PH-SENSITIVE BIONANOCOMPOSITES WITH LAPONITE		
	IMMOBILIZED SILVER NANOPARTICLES FOR DELIVERY OF SUNITINIB MALEATE TO		
	BREAST CANCERS		
	P. Labib et al.		
09:35 - 09:55	PHOTOACTIVE NANOCOMPOSITE SYSTEM BASED ON CLAY MINERAL SAPONITE		
	EFFECTIVELY ERADICATES STAPHYLOCOCCAL BIOFILMS		
	K. Bilská et al.		
09:55 - 10:15	WHAT CAN THE IN VIVO MODEL GALLERIA MELLONELLA PROVIDE IN THE STUDY		
	OF NANOCOMPOSITES BASED ON CLAY MINERALS AND PHOTOSENSITIZERS?		
	H. Bujdáková et al.		

10:15 – 10:45 Coffee Break		COFFEE BREAK
	10:45 - 12:00	FREE DISCUSSIONS ABOUT WORK AND PROJECTS, CLOSING OF WORKSHOP
	12:00 -	LUNCH

POSTER PRESENTATIONS

TUESDAY, 27.6.	
P-1	ADSORPTION-INDUCED EMISSION IN HYBRID SYSTEMS OF PORPHYRINS AND
	LAYERED SILICATES
	P. Boháč et al.
P-2	UTILIZATION OF INFRARED SPECTROSCOPY FOR THE STUDY OF HYBRID SYSTEMS
	BASED ON SMECTITE AND QUATERNIZED CHITOSAN PREPARED BY LBL METHOD
	V. Kureková et al.
P-3	Application of infrared techniques in clay minerals investigations
	J. Madejová
P-4	COMPOSITE MATERIALS BASED ON MONTMORILLONITE MODIFIED WITH
	CATIONIC AND NON-IONIC POLYMERS
	J. Madejová et al.
P-5	CONFINEMENT-INDUCED SPECTRAL CHANGES OF DICATIONIC NAPHTHALENE
	DERIVATIVE
	M. Matejdes and J. Bujdák
P-6	THE ADSORPTION OF Pb(II), Ni(II) AND Cu(II) FROM AQUEOUS SOLUTION BY
	NATURAL BENTONITE
	Z. Melichová and M. Šuránek
P-7	INFRARED SPECTROSCOPY OF FUNCTIONAL SURFACES BASED ON ORGANO
	MODIFIED SAPONITE-PHLOXINE COMPOSITE DEPOSITED ON POLYMERS
	E. Skoura et al.
P-8	COMPARISON OF ADSORPTION EFFECTIVITY OF LAYERED INORGANIC
	STRUCTURES FOR BENZETHONIUM CATION BY DFT METHOD
	E. Scholtzová et al.
P-9	PHYSICOCHEMICAL ASPECTS AND HYDRATION PROPERTIES OF POLY(2-ETHYL-2-
	OXAZOLINE) AND POLY(DIALLYLDIMETHYLAMMONIUM CHLORIDE)
	FUNCTIONALIZED MONTMORILLONITE
	M. Slaný et al.
P-10	ADSORPTION OF HEXAVALENT CHROMIUM BY PENTAMER UNIT OF POLY-(N-
	BUTYL ETHYLENEIMINE)-MODIFIED MONTMORILLONITE
	P. Škorňa et al.