

9th Workshop of Slovak Clay Group

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

26. – 28. 6. 2023
DREVENICE TERCHOVÁ RESORT, TERCHOVÁ, SLOVAKIA



PROGRAM

ORGANIZATOR:
Slovak Clay Group AT THE INSTITUTE OF INORGANIC CHEMISTRY

ORAL PRESENTATIONS

MONDAY, 26.6.

12:30 – 13:30	LUNCH (DREVENICE TERCHOVÁ RESORT)
14:25 -	OPENING (CONGRESS ROOM)
14:30 – 14:50	PRELIMINARY STATISTICAL ANALYSIS RESULTS OF THE MICHAĽANY-LASTOVCE BENTONITE DEPOSIT–SK F. A. Gread et al.
14:50 – 15:10	STRUCTURAL CHARACTERIZATION AND PHYSICO-CHEMICAL PROPERTIES OF CLAY-BASED GEOPOLYMERS/ZEOLITES M. Slaný et al.
15:10 – 15:30	PHOTOACTIVE HYBRID FILMS BASED ON CLAY MINERAL SAPONITE AND PHLOXINE B EFFECTIVELY ERADICATE STAPHYLOCOCCAL BIOFILMS K. Bilská et al.
15:30 – 15:50	ACTIVE POLYMER SURFACES FUNCTIONALIZED WITH PHLOXINE B E. Skoura et al.
15:50 – 16:10	THE MECHANISM OF ADSORPTION-INDUCED EMISSION OF CATIONIC DYES IN SMECTITE COLLOIDS V. Planetová et al.
16:10 - 16:30	COFFEE BREAK
16:30 - 16:50	STUDY OF ENHANCED FLUORESCENCE OF CATIONIC DYE CRYSTAL VIOLET AFTER INTERACTION WITH EITHER PRISTINE OR BY ETHYLENEAMINES MODIFIED MATRIX OF SYNTHETIC HECTORITE M. Barlog et al.
16:50 – 17:10	THEORETICAL STUDY OF THE STABILITY OF POLY(2-METHYL-2-OXAZOLINE) - SAPONITE HYBRID STRUCTURE S. Bashir et al.
17:10 – 17:30	STRUCTURAL CHARACTERISATION OF POLY(2-METHYL-2-OXAZOLINE)- AND TETRABUTHYLPHOSPHONIUM-MODIFIED MONTMORILLONITE AFTER ADSORPTION OF TOXIC HEXAVALENT SELENIUM OXYANIONS P. Škorňa et al.
17:30 – 17:50	HERBICIDES ADSORBED ON THE IMOGOLITE NANOTUBE D. Moreno-Rodriguez et al.
18:30 – 21:00	DINNER WITH WINE TASTING (MEETING ROOM DREVENICE TERCHOVÁ)

TUESDAY, 27.6.

07:30 – 09:00	BREAKFAST (DREVENICE TERCHOVÁ RESORT)
09:00 – 11:00	CLOSING MEETING TO PROJECT APVV-18-0075 - POLYMER SURFACES MODIFIED WITH LAYERED NANOPARTICLES AND PHOTOACTIVE DYES J. Bujdák
12:00 – 13:00	LUNCH
17:00 – 18:00	POSTER SESSION (CONGRESS ROOM)
18:30 – 19:30	DINNER

WEDNESDAY, 28.6.

07:30 – 09:00	BREAKFAST (DREVENICE TERCHOVÁ RESORT)
09:15 – 09:40	POLYMER SURFACES MODIFIED WITH LAYERED SILICATES AND ORGANIC DYES J. Bujdák
09:40 – 10:05	THE CHANGES OF RARE EARTH MODIFIED SILICATES UPON HEATING IN THZ

REGION

M. Janek

10:05 – 10:25 COFFEE BREAK

10:25 – 12:00 DISCUSSIONS ABOUT WORK AND PROJECTS, CLOSING OF WORKSHOP

12:00 - LUNCH (DREVENICE TERCHOVÁ RESORT)

POSTER PRESENTATIONS

TUESDAY, 27.6.

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| P-1 | ENHANCED SINGLET OXYGEN PHOTSENSITIZATION VIA ADSORPTION-INDUCED EMISSION IN HYBRID SYSTEMS OF PORPHYRINS AND LAYERED SILICATES
P. Boháč et al. |
| P-2 | ADVANCED APPROACHES FOR TESTING ANTIMICROBIAL ACTIVITY OF HYBRID FILMS BASED ON CLAY MINERALS
H. Bujdáková et al. |
| P-3 | HYBRID SYSTEM BASED ON SMECTITE AND ANIONIC ORGANIC DYE PREPARED BY LAYER-BY-LAYER METHOD
V. Kureková et al. |
| P-4 | ANALYSIS OF INFRARED SPECTRA IN THE SYSTEMS CLAY MINERAL / ORGANIC SURFACTANT/DYE
H. Pálková et al. |
| P-5 | PREPARATION OF ANTIMICROBIAL FILMS BASED ON LAYERED SILICATE AND PHOTOACTIVE DYE
M. Pribus et al. |
| P-6 | ADSORPTION OF RIFAMPICINE DRUG ON MONTMORILLONITE
E. Scholtzová et al. |
| P-7 | ADSORPTION OF CU(II) ONTO CLAY BASED GEOPOLYMERS
M. Šuránek and Z. Melichová |
| P-8 | COMPARISON OF CHEMICAL COMPOSITION OF BENTONITES, K-BENTONITE AND PERLITES FROM THE JASTRABÁ FORMATION (SLOVAKIA)
P. Uhlík et al. |