

8th Workshop of Slovak clay group

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

06. – 08. 9. 2021
HOTEL JULIANIN DVOR, HABOVKA, SLOVAKIA



PROGRAM

ORGANIZATOR:
Slovak Clay Group at the Institute of Inorganic Chemistry

ORAL PRESENTATIONS

MONDAY, 6.9.

13:00 – 13:50 LUNCH (FOLKLÓRNY DOM – JULIANIN DVOR, HABOVKA)

14:25 - OPENING (FOLKLÓRNY DOM – JULIANIN DVOR)

14:30 – 14:50 ON THE MECHANISM OF ADSORPTION AND MOLECULAR AGGREGATION OF ORGANIC DYE ON LAYERED SILICATE PARTICLES

J. Bujdák and

14:50 – 15:10 PHOTOACTIVE SURFACES OF POLYCAPROLACTONE NANOCOMPOSITES WITH SAPONITE AND METHYLENE BLUE

E. Skoura et al

15:10 – 15:30 ANTIBIOFILM ACTIVITY OF PHLOXINE B ENTRAPPED ON SAPONITE PARTICLES ON POLYURETHANE SURFACE

N.C.T. Dadi et al.

15:30 – 15:50 TAKING A LOOK AT THE INTERACTIONS BETWEEN DIURON AND SMECTITE

D. Moreno-Rodríguez et al.

15:50 - 16:10 COFFEE BREAK

16:10 - 16:30 REMOVAL OF TOXIC SELENIUM CONCENTRATIONS FROM WATER SOURCES BY MONTMORILLONITE MODIFIED WITH POLYMER MATRIX AND TETRABUTYLPHOSPHONIUM SURFACTANT

P. Škorňa et al.

16:30 – 16:50 APPLICATION OF ORGANO-MODIFIED LAYERED HYDROSILICATES FOR THE SYNTHESIS OF MATERIALS WITH LUMINESCENT PROPERTIES

M. Barlog et al.

16:50 – 17:10 UNUSUAL FLUORESCENCE OF REICHARDT'S DYE IN SAPONITE COLLOIDAL DISPERSIONS

M. Pribus et al.

17:10 – 17:30 THE IMPACT OF THE ALKYL-AMMONIUM AND -PHOSPHONIUM CATIONS ON THE HYDRATION OF ORGANO-MONTMORILLONITE

M. Slaný et al.

18:00 – 22:00 Dinner with wines tasting (FOLKLÓRNY DOM – JULIANIN DVOR, HABOVKA)

TUESDAY, 7.9.

07:30 – 08:20 Breakfast (FOLKLÓRNY DOM – JULIANIN DVOR, HABOVKA)

09:00 – 10:00 Free discussions about work and projects

12:00 – 13:00 Lunch (FOLKLÓRNY DOM – JULIANIN DVOR, HABOVKA)

13.30 – 15.00 Poster session

18.30 – 21.00 Dinner (FOLKLÓRNY DOM – JULIANIN DVOR, HABOVKA)

WEDNESDAY, 8.9.

07:30 – 08:20 Breakfast (FOLKLÓRNY DOM – JULIANIN DVOR, HABOVKA)

Invited lecture

09:00 – 09:30 TERAHERTZ RESPONSE OF ER³⁺/YB³⁺ CO-DOPED LA₂ZR₂O₇ CERAMICS

M. Janek et al.

09.30 – 09.50 LAYERED SILICATES MODIFIED WITH RARE EARTH ELEMENT CATIONS

M. Čičkan and M. Janek

09:50 – 10:10 MINERALOGICAL AND CHEMICAL COMPOSITION OF MATURE FINE TAILINGS (MFT) FROM ALBERTA, CANADA

Y. Bai et al.

10.10 – 10.30 COFFEE BREAK

10.30 – 12:00 MEETING TO PROJECT, CLOSING OF WORKSHOP
P. Uhlík

12:00 - LUNCH (FOLKLÓRNY DOM – JULIANIN DVOR, HABOVKA)

POSTER PRESENTATIONS

TUESDAY, 7.9.	
P-1	ADSORBENTS OF ORGANIC POLLUTANTS BASED ON ORGANICALLY-MODIFIED HECTORITE-COATED SILICA PARTICLES P. Boháč et al.
P-2	ASSAYS USED IN THE EVALUATION OF ANTIMICROBIAL PROPERTIES OF HYBRID MATERIALS H. Bujdáková et al.
P-3	SILICATES IN MODERN MEDICINE S. Furka et al.
P4	INTERCALATION OF THE POLY(2-METHYL-2-OXAZOLINE) INTO MONTMORILLONITE J. Madejová
P-5	STRUCTURAL CHANGES IN MECHANOCHEMICALLY TREATED SMECTITES INVESTIGATED BY INFRARED SPECTROSCOPY H. Pálková et al.
P-6	THEORETICAL STUDY OF INTERACTIONS IN THE POLYCATION-MONTMORILLONITE – ADVANCED HYBRID MATERIAL E. Scholtzová and S. Bashir
P-7	BASIC CHARACTERISATION OF SELECTED BENTONITES FROM KREMNICKE VRCHY – PRELIMINARY RESULTS Uhlík et al.
P-8	SURFACE SEGREGATION OF THE MG SPECIES AS A RESULT OF CHEMICAL AND HYDROTHERMAL TREATMENT OF THE LAPONITE-BASED NANOCOMPOSITES Zimowska et al.