



XVII ICC
ISTANBUL 2022
25 -29 JULY



ICC 2022 DETAILED PROGRAM

28 July 2022, Thursday

TS15 Clays, organics, hybrid materials

Convener: Liu, D., Theng, B.K.G., Xiandong, L., Hongjuan, S., Lv, G.

- 9:45** **PHY-1100-Adsorption of methane and carbon dioxide by water-saturated clay rocks**
Denys I. Grekov, Jean-Charles Robinet, Bernd Grambow
- 10:00** **VRT-1053-Starting stoichiometry, keys parameters, in the microstructural and functional properties of synthesized hybrid nanocomposites chitosan/montmorillonite/metal oxide type**
Malek Lahbib, Walid Oueslati, Chadha Mejri, Abdsslem Ben Haj Amara
- 10:15** **PHY -1126-Enhanced fluorescence of hybrid systems based on layered silicates and cyanine dyes**
Peter Boháč, Šimon Budzák, Juraj Bujdák
- 10:30** **VRT -1247-Effect of humic acid on lysozyme interaction with montmorillonite and kaolinite**
Yan Li, Luuk K. Koopal, Wenfeng Tan, Chuanqin Huang
- 10:45** **VRT -1273-Occurrence of organic matter in hydroxy-interlayered clay mineral (HIM) of red earth and its mechanism of carbon sequestration**
Dong Liu, Mengyuan, Li, Peixin Du, Peng Yuan

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- 11:15** **PHY-1093-Comparative study of alkylammonium- and alkylphosphoniumbased analogues of organo-montmorillonites**
Jana Madejová, Martin Barlog, Luboš Jankovič, Michal Slaný, Helena Pálková
- 11:30** **PHY-1111-Temperature dependence of intercalation capacity of kaolinite**
Fevronia T. Andreou, Eirini Siranidi, Georgios D. Chryssikos, Arkadiusz Derkowski
- 11:45** **VRT -1327-Amorphous clay minerals and soil acidity control organic carbon sequestration in humid tropical soils of India**
Ranjan Paul, Duraisamy Vasu, Pramod Tiwary, Shabana Sheikh, Padikkal Chandran, Shiocharan S. Gaikwad



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- 13:00** **VRT -1406-Adsorption of Some Anions by Sepiolite Belongs to Eskişehir (Sivrihisar) Region and Its Surface Active Agents-Modified Forms**
- 13:15** **VRT-1015-Effective utilization of montmorillonite surface for adsorption of aromatic compounds revealed by molecular dynamics simulation**
Masaya Miyagawa, Fumiya Hirose, Hiromitsu Takaba
- 13:30** **VRT-1127-Effect of nonionic surfactant for adsorption behavior of benzyl acetate on montmorillonite in water**
Kanji Saito, Kazuchika Hashimoto, Régis Guégan, Masataka Ogasawara, Sumio Kato
- 13:45** **VRT-1291-The role of mineral weathering in the priming effect: regulation of soil carbon loss and climate feedbacks**
- 14:00** **VRT-1395-Electrochromic nanocomposites of Fe(II)-based metallosupramolecular polymer and a layered inorganic-organic hybrid**
Kazuko Fujii, Manas Kumar Bera, Dines Chandra Santra Masayoshi Higuchi