



**XVII ICC**  
ISTANBUL 2022  
25 -29 JULY



## ICC 2022 DETAILED PROGRAM

**26 July 2022, Tuesday**

### TS08 + TS20 Sepiolite, palygorskite and bentonite

**Convener:** *Pozo, M., Jamoussi, F., Galindo, A.L., Belaroui, L.S.*

- 9:45**      **VRT-1035-Natural mixtures of palygorskite and smectite clay deposits of Grevena-Kozani, west Macedonia, Greece: A comparison study with similar Spanish and Turkish clay deposits**  
*Konstantinos Vythoulkas, Michael Stamatakis, Manuel Pozo, Ariadne Argyraki*
- 10:00**      **NA-1202-Control mechanisms of special bentonites as highly effective buffer material for nutrients and salts in peat-reduced and peat-free growing media**  
*Matthias Schellhorn, Jana Michaelis, Uwe Hilmer, Ralf Diedel, Franz Sperhake, Kevin Kaps, Stefan Dultz*
- 10:15**      **PHY-1252-Crystallochemical characterization of bentonites used on treated wines**  
*Fernando Rocha, Sofia Catarino, Cristiana Costa*

**28 July 2022, Thursday**

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**Convener:** *Pozo, M., Jamoussi, F., Galindo, A.L., Belaroui, L.S.*

- 9:45**      **PHY-1173-Application of full pattern summation method in quantification of bentonites and smectites**  
*Adrián Lorenzo, Emilia García-Romero, Mercedes Suárez, Stephen Hillier*
- 10:00**      **PHY-1265-Experimental study of dissolution reaction of palygorskite. Effect of solution Ph**  
*F.J. Huertas, A.E.S. Van Driesche1, M. Bentabol, M.D. Rodríguez-Ruiz*
- 10:15**      **PHY-1285-Mineralogy, geochemistry, and genesis of lithiumbearing argillaceous sediments associated with the Neogene Bigadiç borate deposits, western Anatolia, Turkey**  
*Selahattin Kadir, Tacit Külah, Hülya Erkoyun, Cahit Helvacı, Muhsin Eren, Burak Demiral*
- 10:30**      **VRT -1290-Influences of Micropores and Water Molecules in the Palygorskite Structure on the Color and Stability of Maya Blue Pigment**  
*Guanzheng Zhuang, Li Li, Mengyuan Li, Peng Yuan*



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**13:00 PHY-1398-Tunisian Smectitic Clays**

*Fakher Jamoussi, Emna Fakhfakh, Islem Chaari, Samir Mefteh, Imen Khiari & Ali Sdiri*

**13:15 VRT-1196-Bentonites and K-bentonites: Issues in identifying and interpreting ancient tephra**

*Warren D. Huff*

**13:30 VRT-1379-Periodic DFT study of the crystal structure and physical properties of the monoclinic polymorph of palygorskite mineral determined by Periodic DFT**

*Francisco Colmenero, Ana María Fernández Diaz, Vicente Timón*