



XVII ICC
ISTANBUL 2022
25 -29 JULY



ICC 2022 DETAILED PROGRAM

26 July 2022, Tuesday

TS12 Soil mineral quantification

Convener: *Dietel, J., Dohrmann, R., Georgiadis, A., Hillier, S., Hubert, F., Mikutta, C.*

- 14:30** **PHY-1350-Development and evaluation of a disorder structure model of hydroxy-interlayered smectite (HIS) for Rietveld refinement**
Dietel Jan, Dohrmann Reiner, Ufer Kristian, Kaufhold Stephan, Gröger-Trampe Jens, Bertmer Marko
- 14:45** **PHY -1146-Improving Accuracy of Quantitative X-ray Diffraction Analysis through Machine Learning**
Rachel E. Drapeau, Barry R. Bickmore, Emily J. Evans
- 15:00** **PHY -1184-Augmenting the full-pattern summation method for analysis of X-ray powder diffraction patterns with Rietveld calculations**
Rachel E. Drapeau, Barry R. Bickmore, Emily J. Evans
- 15:15** **PHY-1341-Bentonite XRD powder quantitative analysis using Rietveld refinement: revisiting and updating bulk semiquantitative mineralogical compositions**
Jaime Cuevas, Miguel Ángel Cabrera, Raúl Fernández, María Jesús Turrero, Ana Isabel Ruiz