



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



## ICC 2022 DETAILED PROGRAM

**25 July 2022, Monday**

### TS04 Clays in the solar system

**Convener:** *Peretyazhko, T., Rampe, L., Sutter, B.*

- 10:00**     **PHY-1025-Investigating the biopreservation potential of Martian smectites**  
*Isis Criouet, Jean-Christophe Viennet, Laurent Remusat, Sylvain Bernard*
- 10:15**     **PHY-1088-Magmatic production of clay minerals on Mars**  
*Sylvain Bernard, Jean-Christophe Viennet, Corentin Le Guillou*
- 10:30**     **PHY-1122-Reappraisal of the clay mineralogy of the Orgueil meteorite by using X-Ray diffraction profile modelling**  
*Viennet J.-C., Hubert. F., Beck P., Alp E.E., Lavina B., Hu M.Y., Zhao J., Bernard. S., Le Guillou C., Gounelle M., Remusat L.1, Roskosz M.*
- 10:45**     **VRT-1180-Clay - sulfate transitions at Mawrth Valles, Mars point to habitable conditions and energetically favorable environments**  
*Janice L. Bishop and Megan E. Elwood Madden*

### TS04 Clays in the solar system

**Convener:** *Peretyazhko, T., Rampe, L., Sutter, B.*

- 11:15**     **PHY -1067-Formation of Fe(III) (hydr)oxides from Fe(II) sulfides: Implications for akaganeite detection on Mars**  
*Tanya S. Peretyazhko, Douglas W. Ming, Richard V. Morris, David G. Agresti, Wayne P. Buckley*
- 11:30**     **VRT-1212-Indigenous Organic Matter Associated with Unusual Low Temperature Aqueous Secondary Phases in the Mars Meteorite Nakhla**  
*Kathie L. Thomas-Keprta, Simon J. Clemett, Everett K. Gibson, Zia Rahman, Neha Baskar, Susan J. Wentworth, Nathaniel T. Keprta and David S. McKay*
- 11:45**     **VRT-1226-Allophanes with varied Si/Al molar ratios – structure characteristics and feasibility of differentiation by visible and nearinfrared spectroscopy**  
*Peixin Du, Shun Wang<sup>3</sup>, Peng Yuan, Jiacheng Liu, Dong Liu, Haozhe Guo, Xinyi Xiang, Xiaolong Guo*
- 12:00**     **VRT -1276-NH<sub>4</sub>-smectites - a potential source of N compounds in Sample Analysis on Mars instrument onboard the Curiosity rover?**  
*Slavka Andrejkovičová, Amy C. McAdam, Jennifer C. Stern, Christine A. Knudson, Rafael Navarro-González, Maëva Millan, Elizabeth B. Rampe, Douglas W. Ming, Fernando Rocha<sup>1</sup>, Paul R. Mahaffy*