

EMC 2024 - CHANGES TO THE PROGRAMME

1. **Session 1** has been reordered.
2. The talk by **John Rakovan** in session 1 has been withdrawn.

Lecture Theatre 1 – Burke		
Session 1. Apatite - an accessory mineral with a big footprint in geochemical, environmental, and biological processes		
Session Chairs: David Chew, Alicja Wudarska, Bartosz Puzio		
09.40–10.00	Contaminant metal desorption induced by apatite additions to a contaminated sediment	Kaplan, Daniel I. and Knox, A.S.
10.00-10.20	Facts and myths about the environmental role of hydroxylpyromorphite $Pb_5(PO_4)_3OH$	Maneck, Maciej
10.20-10.40	Thermodynamic sublattice model for the solid-solution aqueous-solution equilibria in the apatite system $(Ca,Sr)_5[(P,V)O_4]_3(OH,F)$	Kersten, Michael , Kulik, D.A.
10.40-11.00	Exploring iodine-containing apatite: synthesis, characterization, and environmental implications	Puzio, Bartosz
11.00-11.40	BREAK	
11.40-12.00	Sequestration of arsenic from aqueous solutions by lead apatites precipitation strategy	Stępień, Ewa and Maneck, M.
12.00-12.20	REE recovery from apatite-rich rock containing accessory monazite	Staszal, Kacper , Maneck, M., Majka, J.
12.20-12.40	Bat guano-derived hydroxylapatite: an overlooked testimony of past biological activity and a sink of metals in cave environments	Galliano, Yuri , Bellatreccia, F., Bruxelles, L., De Waele, J., and Carbone, C.
12.40-13.00	Oxygen isotope study of fluorapatite in conodonts – insights from chemical analyses	Wudarska, Alicja , Wiedenbeck, M., Männik, P., Lepland, A., Hints, O., Wilke, F.D.H., Emsbo, P., Couffignal, F. and Scicchitano, M.R.
13.00-14.00	LUNCH	
14.00-14.20	Effects of Phosphorus Concentration on Apatite Trace Element Partitioning and the Formation of Immiscible Phosphorus Rich Melts in the Lower Crust	Manselle, Patrick A. , Foley, S. and Shcheka, S.S.
14.20-14.40	In-situ laser ablation Lu-Hf apatite geochronology: applications to date mafic intrusions and detrital apatite.	Kharkongor, Melissa B. , Glorie, S., Mulder, J., Dare, S., Abersteiner, A., Kirkland, C., Bedoya, A.
14.40-15.00	Insights into the tectonometamorphic evolution of the Norwegian Caledonides and Fennoscandia from apatite petrochronology	Piraquive, Alejandro , Machado, J.P., Huyskens, M., Redfield, T.F., Schönenberger, J., Jakob, J., Knies, J.

15.00-15.20	Pb mobility in Apatite: Exploring chemical influences and its potential for nano-scale petrochronology	Ullah, Matee , Klötzli, Urs, Černok, Ana, Khubab, Muhammad and Goudarzi, Mohammad
15.20-16.00	Crystal Structure, the foundation for apatite's many and varied uses.	Rakovan, John
16.00-16.20	BREAK	

3. **Michele Rinaldi** has been added as a Session Chair to Session 27.

4. **Lisa Tagliacollo** is a student and her name should have been underlined in red.

5. Artem Borisov and not Veronica Abdulina will present 'Phase evolution and thermal behavior of hydrous Fe sulfate minerals: coquimbite $\text{AlFe}_3(\text{SO}_4)_6(\text{H}_2\text{O})_{18}$, römerite $\text{Fe}^{2+}\text{Fe}^{3+}_2(\text{SO}_4)_4(\text{H}_2\text{O})_{14}$

and aluminocopiapite $\text{Al}^{3+}_{2/3}\text{Fe}^{3+}_4(\text{SO}_4)_6(\text{OH})_2(\text{H}_2\text{O})_{20}$ ' in Session 7.

6. **Ahmad Haghi** will join/present remotely (Thursday afternoon, session 14) instead of in person.

14.40-15.00	Germanium in sphalerite, but how and why? Atomistic simulations have an answer	<u>Haghi, A.</u> and Jahn, S. (REMOTE)
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7. Session 14 Thursday, talk by **Oleksii Naumenko** will be delivered remotely.

12.20-12.40	The distribution of lithium pegmatites in Eastern Europe and Northern Asia	<u>Naumenko, O.</u> and Dèzes, M. (REMOTE)
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8. **Beverly Tkalcec** will now deliver her talk (session 34) remotely.

11.40-12.00	Rare-earth element distribution in particles from asteroid Bennu measured by high-energy synchrotron X-ray fluorescence	<u>Tkalcec, B.</u> , DePauw, E., Bazi, B., Vekemans, B., Tack, P., Baert, T., Herthogs, J., Vincze, L., Falkenberg, G., Garrevoet, J., Di Michiel, M., Burghammer, M., Connolly Jr., H. C., Laurretta, D. S. and Brenker, F. E. (REMOTE)
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9. **Katrin Westner** will now deliver her talk (session 20) remotely.

10.20-10.40	Costa Rican gold and copper ore deposits and their potential significance for local pre-Columbian metal artwork production	<u>Westner, K.J.</u> , Klein, S., Gassmann, G., Alvarado, G.E., Schäfer, S. and Welk, E. (REMOTE)
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10. **Ed Grew**'s talk (session 31) will now be delivered by his wife, Priscilla Grew.

10.20-10.40	Titanium in ultra-high-pressure rocks: Implications of the new minerals wenjiite, Ti_5Si_3, maurogemmiite, $Ti_{10}Fe_3O_3$, paulrobinsonite, $Ti_8Fe_4O_2$, and TiFe	Grew, E. * , Xiong, F., Mugnaioli, E., Xu, X., Yang, J., Wirth, R., Franke, P. and Yates, M. (REMOTE)
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11. **Anirudh Prabhu** will make a keynote presentation in session 32 (Tuesday). The printed programme does not include the word "Keynote".

14.20-15.00 KEYNOTE	Predicting unknown mineral occurrences with Mineral Association Analysis and improving our understanding of mineralogy	Prabhu, A. , Morrison, S.M., Eleish, A., Fox, P., Golden, J., Downs, R.T., Perry, S., Burns, P.C., Ralph, J. and Hazen R.M.
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12. **Sean McClenaghan** will act as the in-person session chair for session 14, working alongside Vladimir Khomenko, Daria Chernysh and Iryna Chernova all of whom are attending remotely.

13. [Isabel Navarro Zabarrurú](#) will present her poster remotely, not in person.