

M e g h í v ó

**Tisztelettel hívunk minden érdeklődőt a Litoszféra Fluidum
Kutató Laboratórium (LRG) online szeminárium
sorozatának keretében**

**Zajacz Zoltán, a Genfi Egyetem (Svájc) docensének
előadására:**

**The redox-dependent fate of sulfur and chalcophile
metals in magmatic-hydrothermal systems**

Helyszín: Zoom (online)

Regisztráció: <https://forms.gle/wqYCTHve2pLXh3Cy5>

Időpont: 2021. szeptember 20. 17⁰⁰

Minden érdeklődőt szeretettel várunk!

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The redox-dependent fate of sulfur and chalcophile metals in magmatic-hydrothermal systems

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The presentation will address the role sulfur plays during the evolution of magmatic and hydrothermal systems in a variety of processes that may ultimately determine ore fertility. At first, we will go on short adventure to the Southern Volcanic Zone of the Andes to explore how crustal thickness and stress regime affect the budget of sulfur and other important ore forming constituents (e.g. Cl, Cu, Au, Ag) in arc magmas by using silicate melt inclusions in minerals. As we will find sulfur to be a key player, I will also address the redox-dependent efficiency of sulfur extraction from magmas and the behavior of sulfur during vapor-liquid immiscibility in high-temperature hydrothermal systems by combining results from high-pressure experiments with model calculations.