

Samuel Rybar, PhD

SEDIMENTOLOGIST



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Research Interests

- Basin analysis with focus on depositional systems and tectonics
- Well-core and outcrop sedimentology
- Petroleum system assessment with special interest in source rocks
- Paleogeography of rifted and transform margins with implications for determining sediment entry points
- 40Ar/39Ar radio-isotopic dating.

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Education & Experience

Samuel Rybar has been affiliated with EGI since 2015, working in EGI's Bratislava, Slovakia Lab, where his research focus is basin analysis with emphasis on applying standard methods of sedimentology, structural geology, tectonics, and organic geochemistry. Since 2016, Samuel has also served at the Faculty of Natural Sciences in the Department of Geology and Paleontology at Comenius University in Bratislava, Slovakia.

Samuel earned his Bachelor (2010) and Master (2012) in Geology and Paleontology and his Ph.D. in Sedimentology in 2016 from Comenius University. His Doctoral thesis title was Danube Basin Development During the Middle Miocene.

Samuel is fluent in English, Slovak, and German.

Regional & Basin Experience

- Onshore basins: Pannonian basin system, Vienna basin, Black Sea basin, Timan-Pechora basin, West Siberia basin, Volga-Ural basin, Dniiper-Donets basin.
- Offshore basins: Central and Equatorial Atlantic basins, East India basins, sheared margin basins of West Australia.

Selected Publications

Rybar, S., Šarinová K., Sant, K., Kuiper, K.F., Kováčová, M., Vojtko, R., Reiser, M.K., Fordinál, K., Teodoridis, V., Nováková, P., Vlček, T., 2019: New 40Ar/39Ar, fission track and sedimentological data on a middle Miocene tuff occurring in the Vienna Basin: implications for the North-Western Central Paratethys region. *Geologica Carpathica*, 70, 5, 386-404. doi: 10.2478/geoca-2019-0022.

Nemčok, M., **Rybar, S.**, Odegard, M., Dickson, W., Pelech, O., Ledvényiová, L., Matejová, M., Molčan, M., Hermeston, S., Jones, D., Cuervo, E., Cheng, R. & Forero, G., 2015: Development history of the southern terminus of the Central Atlantic; Guyana–Suriname case study. In: Nemčok, M., Rybar, S., Sinha, S.T., Hermeston, S.A. & Ledvényiová, L. (eds.) *Transform Margins: Development, Controls and Petroleum Systems*. Geological Society, London, Special Publications, 145-179, 431. doi: 10.1144/SP431.10

Rybar, S., Kováč, M., Šarinová, K., Halássová E., Hudáčková, N., Šujan, M., Kováčová, M., Ruman, A. & Klučiar, T. 2016: Neogene changes in paleogeography, palaeoenvironment and the provenance of sediment in the Northern Danube Basin. *Bulletin of Geosciences*, 91, 2, 367-398. doi: 10.3140/bull.geosci.1571

Nemčok, M. & **Rybar, S.**, 2016: Rift–drift transition in a magma-rich system: the Gop Rift–Laxmi Basin case study, West India. In: Mukherjee, S., Misra, A.A., Calvés, G. & Nemčok, M. (eds.) *Tectonics of the Deccan Large Igneous Province*. Geological Society, London, Special Publications, 445. doi: 10.1144/SP445.5