

Geometallurgy Webinar 2025

Maximizing Geometallurgical Value from Limited Drill Core

Date: 10 October 2025

Time: 12:00-13:00

ECSA Validated CPD Activity,
Credits = 0.1 points per hour attended.



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BACKGROUND

Traditional core characterization often relies on destructive assaying and extensive sampling, which can be time-consuming, costly, and sometimes wasteful. Emerging non-destructive and low-preparation methods now enable us to extract far more information from far less material, preserving drill cores while producing rich datasets for geometallurgical modeling.

This talk explores the potential of digital drill cores, machine learning-based textural classification, and portable, non-destructive tools. It also highlights the use of mini comminution tests and their value in particle-based approaches to geometallurgy to maximize information while minimizing sample requirements.

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About the presenter



Mehdi Parian,

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Mineral Processing and
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Mehdi Parian is an associated professor in mineral processing and geometallurgy at Luleå University of Technology with a research focus on ore characterization and comminution. Their work integrates advanced imaging, machine learning, and innovative testing methods to maximize geometallurgical information from minimal samples.

They have contributed to projects on automated ore texture classification, small-scale grindability testing, and the development of non-destructive and small-sample techniques for early ore characterization. Their research bridges mineralogy and texture, minerals engineering, and digital technologies to improve metallurgical forecasting and support geometallurgy.

FOR FURTHER INFORMATION CONTACT:

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