

MINERAL DEPOSITS–MINING AND MINERAL RESOURCES SESSION

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The 79th Geological Congress of Türkiye will take place on April 12–16, 2027, under the main theme "Geosciences in Solving Global Problems: Earth-Society-Future" Embracing the core philosophy that "Understanding the Earth is not enough; we must integrate the knowledge we produce into shaping the future of societies," this year's congress aims to bridge geoscientific knowledge with societal welfare and a sustainable future.

Industrial advancements, infrastructure requirements, and global raw material demands make the accurate modeling and sustainable management of precious and base metal resources more critical than ever. In our region, characterized by complex geodynamic evolution and rich metallogenic belts, understanding the genesis of metallic ore deposits and discovering new ore bodies through modern exploration methods remain a cornerstone of geosciences.

The "Ore Deposits- Mineral and Ore Resources" session will specifically focus on metallic ore-forming systems—primarily base metals (copper, lead, zinc, etc.) and precious metals (gold, silver, etc.)—as well as ore-forming mechanisms and innovative approaches in exploration geology.

Key Session Topics:

- Metallic Ore Systems and Metallogeny: Geodynamics, magmatic-hydrothermal evolution, geochronology, and mineralogy of metallic deposits (porphyry, epithermal, skarn, VMS, orogenic/sediment-hosted gold, etc.) in Türkiye and adjacent regions.
- Ore Deposit Modeling and Exploration Technologies: Structural and alteration mapping, advanced geochemistry and geophysics, 3D/4D ore deposit modeling, remote sensing, and data-driven exploration strategies.
- Exploration Guides and Field Applications: Development of new exploration criteria based on genetic models and target generation.
- Sustainable Exploration and Management:Environmentally conscious, resource-efficient exploration and field management strategies aligned with societal welfare.

We cordially invite academics, field geologists, researchers, and industry specialists working in the field of metallic ore deposits to contribute their scientific insights and innovative research to our session.