


# DRİLLİNG AND DRİLLİNG TECHNOLOGİES SESSİON

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The "Drilling and Drilling Technologies" session focuses on advances in drilling methods and subsurface exploration techniques for geoscientific research, resource develop-ment, and hazard assessment. This session provides a platform where the importance of drilling as the critical interface between surface observations and direct subsurface data acquisition is emphasized, bringing together researchers and industry representatives. In this session, the focus is on studies related to drilling, well completion, production practices, and technologies, which are essential components of the exploration and extraction of underground resources, including groundwater, geotechnical, geothermal, mining exploration, oil and natural gas, and solution mining applications. Presentations are expected to cover the challenges encountered, solution methods, and new developments in this field.

Presentations will cover topics such as scientific and exploration drilling, coring and sampling techniques, drilling fluids and wellbore stability, well logging and depth measurements, directional and deep drilling technologies, environmental and safety as-pects, and applications in geothermal ener¬gy, hydrocarbon exploration, mining, hydro-geology, and geological hazard studies.

The session emphasizes the technolog¬ical, geological, and operational aspects of drilling across diverse terrains. Türkiye's complex geology presents unique challenges in oil, gas, geothermal, and mining drilling operations, requiring innovative approach¬es and sustainable practices. Presentations on drilling technologies, wellbore stability, fluid management, safety, environmental impacts, and case studies of successful solu¬tions are especially encouraged. Topics such as well control during drilling and completion in pressurized and deep areas, injection for reservoir sustainability during production, cement operations in completion and recompletion, acid operations, stimulation operations, field development in production, and reservoir management are anticipated to be presented. Many of the fatal accidents that have occurred in recent years have resulted from non-compliance with well control rules during entries into wells for drilling, completion, or recompletion. In the near future, there is an agenda to convert old oil or natural gas wells that have reached the end of their life in the Southeastern Anatolia region for geothermal purposes to contribute to the national economy. Discussing suggestions on how to safely enter these wells with which rigs and equipment is of great importance.