

KORHAN ESAT NEOTECTONICS–PALEOSEISMOLOGY–SEISMOTECTONICS SESSION

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The "Korhan Esat Neotectonics – Paleoseismology – Seismotectonics" session, to be held during the 79th Geological Congress of Türkiye (12–16 April 2027), aims to provide a comprehensive forum for exploring contemporary tectonic deformation processes, their geological imprints, and their implications for future seismic hazards and disaster risk. By bringing together diverse perspectives and complementary lines of evidence, the session seeks to foster a holistic understanding of active tectonic processes and the scientific advances emerging from their investigation.

This year's session is dedicated to the cherished memory of our esteemed colleague and friend, Dr. Korhan Esat, whose untimely passing on 29 April 2026 left a profound sense of loss within our scientific community. In tribute to his valuable scientific contributions, academic achievements, and lasting impact on the field, we remember him with deep respect, gratitude, and affection.

The session embraces a broad, multidisciplinary perspective on active crustal deformation, encompassing its geometry, kinematics, dynamics, and evolution through time and space. We particularly welcome original contributions that integrate approaches from paleoseismology, tectonic geomorphology, tectonic geodesy, seismology, seismotectonics, and geodynamics. Topics of interest include quantitative and qualitative assessments of crustal deformation, earthquake cycles and recurrence patterns, volcano-tectonic processes, the geometry and slip rates of active faults, and geological, historical, and prehistoric records of earthquakes. Studies addressing the temporal and spatial evolution of tectonic deformation through integrated geological, geophysical, geodetic, and geomorphological evidence are especially encouraged.

We warmly invite researchers from all relevant disciplines to contribute to this session by sharing the outcomes of their scientific investigations, including new findings from ongoing research projects. We particularly encourage studies that advance our understanding of active fault systems and their earthquake-generating potential in Türkiye through comprehensive, multidisciplinary, and integrated approaches.

Beyond its scientific objectives, this session also seeks to create a vibrant platform where early-career researchers and experienced scientists can come together, exchange ideas, discuss emerging methodologies, and share new discoveries. By bringing together the next generation of researchers and established members of the scientific community, we hope to foster meaningful scientific dialogue and inspire new collaborations, while commemorating the scientific legacy of Korhan Esat.

We look forward to welcoming you to this special session, sharing your research, and collectively advancing our understanding of active tectonic processes and seismic hazards.