

SCIENTIFIC TALK PROGRAM

Structural development of mineralized fault zones

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Venue: Auditorium Hall, Department of Mines and Geology, Lainchaur

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Abstract

Deformation along fault zones typically generates pathways for fluid flow, resulting in mineralization not only of quartz but also of various ore minerals. During the partly long-lasting periods of deformation activity, wall-rock fragmentation and the presence of fluids lead to fluidized particle suspensions and silica gel, which strongly govern the material flow in the fault zone. In combination with dissolution and precipitation, a wealth of structures is formed, which -- visa versa -- allows the analysis of these processes and of the fault zone history. Fluid flow along active faults zones can be regarded as important for various processes of large-scale transport of matter in the continental crust.