

Naturally Mineralized Systems and Mineralisations, a natural analogue of Enhanced Geothermal Systems (EGS)?

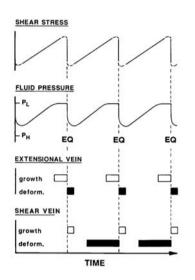
LEDRU Patrick, BOUCHOT Vincent, GENTER Albert

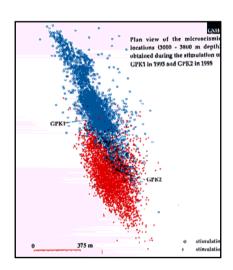




ENGINE Workshop "Defining, exploring, imaging and assessing reservoirs for potential heat exchange", GFZ Potsdam (Germany), 6-7 November 2006

NMS versus **EGS**

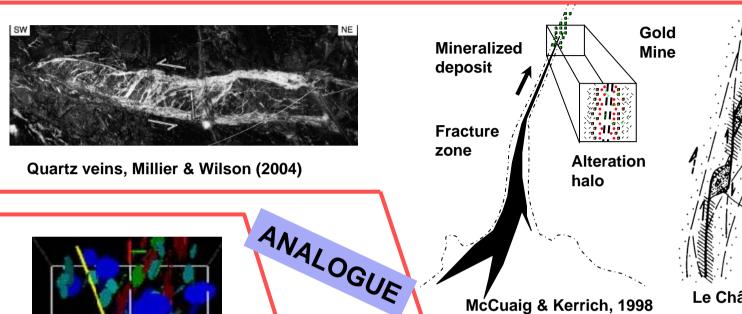


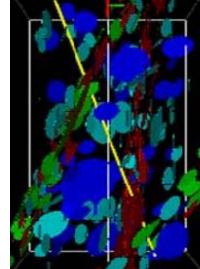


- Naturally Mineralized Systems (NMS)
- > Fault/fracture mechanism in the crust
- > Gold-vein deposits (Australia, Canada, France, ...): natural analogues
- > Enhanced Geothermal Systems (EGS)
- > Reservoir Stimulations
- > Induced Seismic activity and Permeability
- Natural fracture and present-day stress field

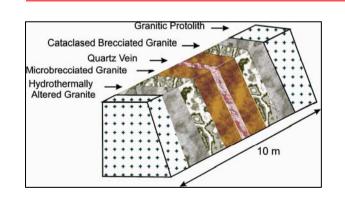


Fracture zone architecture





3D Fracture distribution at Soultz based on borehole data



McCuaig & Kerrich, 1998

Fracture zone organisation at Soultz Genter et al., 2000



Le Châtelet