



Mineralogical Society of America and Geochemical Society Short Course



THERMODYNAMICS AND KINETICS OF FLUID-ROCK INTERACTION

*Congress Centre
Davos, Switzerland
June 19-21, 2009*

*(just prior to the 19th annual V.M. Goldschmidt Conference)
Eric H. OELKERS and Jacques SCHOTT, co-organizers*

Thermodynamics and kinetics are the fundamental basis for our understanding of the rate and extent of fluid-rock interaction. This course strives to present a comprehensive overview of the state-of-the-art in this field with particular emphasis on current societal challenges including CO₂ sequestration, waste mobility and storage

Confirmed Speakers/Topics

Eric Oelkers, P. Benezeth, and G. Pokrovsky (Toulouse)	Thermodynamics of fluid-mineral interactions
Susan Stipp (Copenhagen)	Thermodynamics and kinetics of nano-scale particles
Manuel Prieto (Oviedo)	Thermodynamics of aqueous solution - solid solution systems
Andrew Putnis (Muenster)	Mineral Replacement Reactions
Carl Steefel (Berkeley)	Reactive transport modeling/precipitation
Jacques Schott (Toulouse)	The link between mineral dissolution/precipitation kinetics and solution chemistry
Susan Brantley (Penn State), Art White (U.S. Geological Survey)	Using Mineral Reaction Kinetics to Understand Elemental Profiles in Soils
Bertrand Fritz (Strasbourg)	Mineral precipitation kinetics
Jiwechar Ganor, Itay J. Reznik and Yoav O. Rosenberg (Beer-Sheva)	Organics in water-rock interactions
Yves Godderis (Toulouse)	Weathering, climate, and biospheric processes: towards an integrated modelling
Dmitrii Kulik (Villigen)	Thermodynamic concepts in modeling sorption at the mineral-water interface
David Sherman (Bristol, UK)	Bonding, structure and energetics at the mineral-water interface
Chen Zhu (Bloomington)	Geochemical modeling of dissolution and precipitation kinetics

Registration information is available at : www.goldschmidt2009.org/workshops

Registration fee: 80€ students / 100 € non students

Number of places limited to 100 so please register soon on the Goldschmidt website