

4th GEMS Workshop - Thermodynamic Modeling of Cementitious Systems

7.-8. May 2014 - Empa Dübendorf

Location: Forum Chriesbach, Room C20

Wednesday 7th May 2014

09:00-10:30	Introduction to thermodynamic modeling / structure of GEMS / feedback from exercises (<i>Barbara Lothenbach/Frank Winnefeld - Empa</i>)
10:30-11:00	Coffee Break
11:00-12:30	Influence of temperature on cement hydration (<i>Barbara Lothenbach - Empa</i>)
12:30-13:30	Lunch
13:30-14:00	Thermodynamic database (<i>Barbara Lothenbach - Empa</i>)
14:00-15:00	Solid solutions (<i>Dmitrii Kulik - PSI</i>)
15:00-15:30	Coffee break
15:30-17:00	Hydration modeling (<i>Barbara Lothenbach - Empa</i>)
ca. 18:30	Dinner Hotel Sonnentel, Dübendorf

Thursday 8th May 2014

08:00-09:00	Relative humidity (<i>Thomas Matschei - Holcim</i>)
09:00-10:00	Kinetics (<i>Dmitrii Kulik - PSI</i>)
10:00-10:20	Coffee Break
10:20-11:10	GEMSFIT: A coupled code for GEMS input data optimization (<i>George D. Miron / ETH Zürich</i>)
11:10-12:00	Thermodynamic modeling of hydrated Portland cement – SCM systems: Implementation of hydration kinetics based on ²⁹ Si MAS NMR spectra (<i>Wolfgang Kunther – Aarhus University</i>)
12:00-13:00	Lunch
13:00-13:45	Thermodynamic modeling and ternary blends (CSA-OPC-C\$) (<i>Romain Trauchessec - Université de Lorraine</i>)
13:45-14:30	Modeling of CaO, Al ₂ O ₃ , CaSO ₄ and CaCO ₃ systems (<i>Julien Bizzozero – EPFL</i>)
14:30-15:00	Modeling of limestone and dolomite containing cements (<i>Maciej Zajac – HTC Leimen</i>)
15:00-15:20	Coffee Break
15:20-15:40	Glass dissolution (<i>Ruben Snellings - EPFL</i>)
15:40-16:00	Influence of limestone on the hydration of calcium sulfoaluminate cements (<i>Frank Winnefeld – EMPA</i>)