



**MC-RTN NANOCEM**  
**FINAL CONFERENCE**



September 1-3, 2009,  
EUROTEL-VICTORIA

Route des Layeux, 1884 Villars-sur-Ollon, Switzerland

**Tuesday, September, 1<sup>st</sup>**

From 17:00      Arrival and Registration

19:30            *DINNER*

**Wednesday, September 2<sup>nd</sup>**

**Morning session**

**Deterioration of cement matrices 1**

- 8:30 - 9:05    K. Folliard: Invited talk  
9:05 - 9:35    R. Bujak: Impact of Blended Cements on Reinforcement Corrosion  
9:35 - 10:05   H. Elaqla: Expansion and microstructural development in over-sulfated systems  
10:05 - 10:35   W. Kunther: Influence of Different Sulphate Environments on the Properties of ordinary Portland Cement

10:35-11:05   *Break*

**Deterioration of cement matrices 2**

- 11:05 - 11:35   A. Chabreliè: Mechanisms of external sulfate attack under lab and field exposure  
11:35 - 12:05   A. Idiart: Computational Modeling of External Sulfate Attack  
12:05 - 12:35   V. Fernandez: Availability of Al<sub>2</sub>O<sub>3</sub> in Slag Blended Cements: Sulphate Attack Implications

12:45 - 14:00   *LUNCH*

**Afternoon session**

**Hydrates & porosity characterization**

- 14:00 - 14:35   H.M. Jennings: Invited talk  
14:35 - 15:05   M. Balonis: Impact of the cement accelerators: calcium nitrates and nitrites into a composition of the AFm hydrates  
15:05 - 15:35   M. Medala, (I.Pochard): Thermodynamics & stability of hydrate phases  
15:35 - 16:05   *Break*  
16:05 - 16:35   M. Canut, (M.Geiker): Pore structure and state of water of mixes with blended cements  
16:35 - 17:05   A. Valori, (K.Scrivener): State of water in cover concrete

From 17:05 -    Poster session  
19:00

19:30            *DINNER*

**Thursday, September, 3<sup>rd</sup>**

**Morning session**

**Physical / mechanical performance verification**

- 9:00 - 9:35 P. Monteiro: Invited talk  
9:35 - 10:05 D. Davydov: Multiscale modeling and experimental results from nanoindentation  
*10:05 - 10:35 Break*  
10:35 - 11:05 R. Chamrova: Modelling and measurement of elastic properties of hydrating cement paste  
11:05 - 11:35 J. Skocek: Fracture Mechanics: Measurements and modeling

*12:00-14:00 LUNCH*

**Afternoon session**

**Innovative cementitious materials**

- 14:00-14:35 P. Purnell: Invited talk - Novel applications for cementitious materials: why, how & what next?  
14:35-15:05 A. Itul: Organo Mineral composites  
*15:05-15:20 Break*  
15:20-15:50 A. Folli: Photocatalysis in cementitious systems  
15:50-16:20 M. Kargol: Performance of Aesthetic Concrete Surfaces Modified with Hydrophobic Sol-gel based Systems

Conference ends