Agenda 7th AXS CEM March 19 - 21, 2024

Tagungszentrum Buhlsche Mühle Pforzheimer Str. 68, 76275 Ettlingen, GER



Meeting Room: Werner von Siemens Showroon: Charles Augustin Coulomb

Tuesday, March 19, 2024

12:00 – 13:10	Registration/Lunch
13:10 – 13:30	Welcome and Introduction Soodabeh Durali-Müller (Bruker AXS)
13:30 – 14:00	Crystal chemistry of brownmillerite in sulphate resisting Portland cement: a study by X-ray diffraction, electron microprobe analysis and Mössbauer spectroscopy Marie-Noëlle de Noirfontaine (Ecole Polytechnique de Palaiseau)
14:00 – 14:30	Search for new suppliers and new raw materials, and their characterisation through different techniques, with particular attention towards potentially hazardous minerals Simone Ferrari (Kerakoll)
14:30 – 15:00	Clinker reduced binders following the path of hydration with admixtures - the early age Peter Schwesig (BASF Construction)
15:00 – 15:30	Optimizing and controlling sample preparation for XRD Rainer Schmidt (Bruker AXS)
15:30 – 16:00	Coffee Break
16:00 – 16:30	Recent trends in the preparation of pressed pellets and in borate fusion Martin Lischka (Herzog)
16:30 – 17:00	The role of X-ray diffraction in understanding the hydration behaviour of innovative composite cements Daniela Gastaldi (Buzzi)
17:00 – 17:30	Mineralogical effects in very early hydration reactions: the path from process control with X-rays to product quality control including calorimetry Michael Enders (Thyssenkrupp)
17:30 – 18:00	Determination of complex cementitious compositions by XRD Markus Paul (Dyckerhoff)
19:00	Dinner "Watt's Brasserie", Pforzheimer Str. 67, 76275 Ettlingen

Wednesday, March 20, 2024

08:00 - 08:30	CEM VI (S-V) - analytical accuracy and precision of XRD methods Peter Lausser (Bruker AXS)
08:30 - 09:00	Characterization of the glassy part of supplementary cementitious materials (SCMs) and recycled glass: contribution of XRD, XRF and Raman spectroscopy Marie-Noëlle de Noirfontaine (Ecole Polytechnique de Palaiseau)
09:00 – 09:30	Fortera's low CO2 cement manufacturing and advanced XRD analysis for effective process control Craig Hargis (Fortera)
09:30 – 10:00	Proficiency Testing – a tool for continuous improvement of XRF and XRD analysis Markus Arndt (Heidelberg Materials)
10:00 – 10:30	Coffee Break
10:30 – 11:00	TOPAS 7: Disorder-Models for the analysis of clay materials Dominique Ectors (Bruker AXS)

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11:00 – 11:30	Cluster Analysis – rapid XRD method for raw clay quality control in calcined clay cement production Natalia Dietrich (VDZ)
11:30 – 12:00	Importance of determination of loss on ignition and loss on melt for XRF analysis in the cement industry Frederic Davidts (XRF Scientific)
12:00 – 12:30	New grinding aids in pressed tablet preparation: requirements for XRD and XRF applications Jasmin Holzer (ThyssenKrupp)
12:30 – 13:30	Lunch
13:30 – 14:00	Stacking faults of the hydrous carbonate-containing brucite (HCB) phase in hydrated magnesium carbonate cements Daniel Jansen (FAU Erlangen)/ Frank Winnefeld (EMPA)
14:00 – 14:30	Measure twice, get it right: A deep dive into measurement repeatability Soodabeh Durali-Mueller (Bruker AXS)
15:15	Transfer to Bruker
15:45 – 18:00	Tour and visit of the Bruker AXS production and application facilities
18:45	Evening Event: Dinner & Wine Tasting "Weingut Stadler", Hauptstraße 59, 76889 Dierbach

Thursday, March 21, 2024

08:30 – 09:00	XRF and XRD results for predicting the strength development Dilek Teoman (CRH Group Technical Services)
09:00 – 09:30	Characterization and use of thermal activated pozzolans as Supplementary Cementitious Materials (SCM) in building products Arianna Lo Presti (Mapei)
09:30 – 10:00	Determination of the composition of cements with new constituents: calcined clays and recycled concrete Stefan Baumann (CTC Lafarge)
10:00 – 10:30	Automation of the external standard method and X-ray amorphous in cement Patrick Ullrich (Heidelberg Materials)
10:30 – 11:00	Coffee Break
11:00 – 11:30	About the quality assurance of the X-ray amorphous binder Celitement Daniel Hinder (Celitement)
11:30 – 12:00	Prepmaster Analytics and its possibilities for process control and optimization Marc Bornefeld (Herzog)
12:00 – 12:30	Getting in control of all sample data at the cement plant - Structured acquisition and storage of sample data as a foundation for Industry 4.0 Jens Asbjørn Pedersen (FLSmidth)
12:30 – 13:00	XRF applications for cement and raw materials Rainer Schramm(Fluxana)
13:00 – 13:15	Wrap up and end of symposium
13:15 – 14:00	Lunch