PROGRAM


17:00 - 18:30  Registration
18:30 - 20:30  Welcome Cocktail in Melia Cohiba Hotel

Tuesday, December 5th, 2017.

08:30 - 09:00  Registration
09:00 - 09:30  Opening session
09:30 - 10:00  Mitigation of Climate Change: Key Scientific Messages and Challenges for the Developing Countries

Ramon Pichs

10:00 - 10:30  Options for future cements
Karen Scrivener

10:30  11:00 coffee break

11:00  12:40  Session 1: Hydration

Quantification of pore size distribution modification due to metakaolin inclusion in cement based system

B Bhattacharjee

The effect of alkali on the properties of limestone calcined clay cement (lc3)

Wilasinee Hanpongpun

Assessment of the pozzolanic reactivity of calcined kaolinitic clays by a rapid alkaline solubility test

Elizabeth Cabrera Apolinaire

Hydration study of limestone calcined clay cement (lc3) using various grades of calcined kaolinitic clays

François Avet

Assessment of cuban kaolinitic clays as source of supplementary cementitious materials to production of cement based on clinker – calcined clay – limestone

Roger S. Almenares Reyes

12:40 - 14:00 Lunch

14:00  16:00  Poster session: 5 minutes presentation + poster

1/Determination of the amount of reacted metakaolin in limestone calcined clay cements (lc3)

François Avet

2/hydration of blended cement with halloysite calcined clay

Alejandra Tironi
3/ Influence of a calcined clay and the temperature on the hydration of an oilwell cement
   Juan Ribalta

4/ Reactivity and performance of limestone calcined-clay cements (LC3) cured at low temperature"
   Franco Zunino"

5/ Blended cements with calcined illitic clay: workability and hydration
   Edgardo F. Irassar

6/ Performance evaluation of calcined clay-limestone based ternary blended cement under various climatic conditions in India
   Arun C Emmanuel

7/ Durability of steam cured pozzolanic mortars at atmospheric pressure
   Kübra Ekiz Barış

8/ Calcined clay-cement stabilization - physicochemical attributes and stabilized strengths of a-1-a and a-2-6 soils
   Adekitan, Olasunkanmi Ayoola

9/ Compressive strength improvements of cement-based composites achieved with additional milling of metakaolin
   Biljana Ilić

10/ Evaluation of compressive strength and microstructure of cement pastes containing different qualities of metakaolin
   Dumani Nozonke

11/ Analysis of the mixing performance containing the LC3 as agglomerant with different type of metakaolin
   Diana Lins

12/ Effect of limestone and calcined clay content on expansion after sulfate attack and ASR.
   Aurélie Favier

13/ Service life estimation of LC3 systems
   Sundar Rathnarajan"

14/ Influence of the kind of mineral addition and the seawater on the hydration of a portland cement
   Juan Ribalta

15/ Sulfate and alkali-silica performance of blended cements containing illitic calcined clays
   Cordoba, Gisela Paola

16/ Use of low-Carbon Cement in the preparation of masonry mortars for building restoration
   Betancourt Dania

17/ Evaluation of brick clays from various deposits in central Germany
   Nsesheye Susan Msinjili

18/ Grinding of calcined clays and its effects on cement properties
   William Kluge
16:00 - 16:30 coffee break

16:30 - 17:50 Session 2: Hydration and Geology

Hydrate phase assemblages and hydration kinetics for calcium sulfoaluminate–metakaolin–limestone blends

Malene Thostrup Pedersen

Reaction kinetics of basic clay components present in natural mixed clays

Scherb, Sebastian

Sulfate optimization of binders with calcined clay using isothermal calorimetry

Paul J Sandberg

Resource mapping of china clay for lc3 application in India

Soumen Maity

17:50 - 18:00

18:00 - 19:00 Salsa Class at Hotel’s Disco

Wednesday, December 6th, 2017.

08:30 - 09:00 Low Carbon Cements in China

Sui Tongbo

09:00 - 09:30 Structure and reactivity of calcined clays in cement blends as seen by solid-state NMR

Jorgen Skibsted

09:30 - 10:00 Low-Carbon cement based materials & calcined clay pozzolans

Vanderley John

10:00 - 10:30 coffee break

10:30 - 12:30 Parallel Session 3: Workability, early age properties and Admixtures

Compatibility of water reducing admixtures with metakaolin-portland limestone cement blends

Kimberley E. Kurtis

The effect of limestone and clay fineness on the hydration and workability of ternary blended cement lc3: limestone, calcined clays and cement.

Aurélie Favier

Colloid-chemical investigation of the interaction between PCE superplasticizers and calcined clay

Sebastien Scherb (for J. Plank)
Machine Learning Approaches to Admixture design for Clay based Cements
Newell r. Washburn
Influence grinding procedure, limestone content and psd of components on properties of clinker-calci
Abdel Pérez Hernández
cined clay-limestone cement produced by intergrinding
Promising early age evaluations of fly ash-calci
Serina Ng

cined marl-opc ternary cement

10:30 12:30  Parallel Session 4 : Economy, Life cycle analysis and Industrial Applications
Sustainability of Cuban construction supply chain by means of lc3 cement: case studies in Villa Clara province
Yudieski Cancio
Applicability of a low carbon cement for the sustainable development of Malawi
Soumen Maity
Introducing low carbon cement in cuba - a life cycle sustainability assessment study
Sofía Sánchez Berriel
Improves of the environmental energy sustainability in the production of cement portland with addi
tion of clays activated thermally.
Machado I.L.
Low carbon cement lc3 in Cuba: ways to achieve a sustainable growth of cement production in emerging economies
Fernando Martirena
Pilot scale production of limestone calcined clay cement
Shashank Bishnoi

14:00 15:20  Parallel Session 5 : Creep, shrinkage and other mechanical properties
Creep of concrete based on metakaolin
Bucher Raphaël
Micro-chemo-mechanical Characterization of a Limestone Calcined Clay Cement Paste by Coupled Nanoindentation and Quantitative EDS
William Wilson
Autogenous Shrinkage and creep of limestone and calcined clay based binders
Julien Ston
Influence of initial water curing on compressive strength and microstructure development of limestone calcined clay mortar
Arun C Emmanuel
14:00   15:20  Parallel Session 6 : Sustainability and Industrial Applications

Calcined clays: performance evaluation as supplementary cementitious material
Christian Kalb

Thermal processing of calcined clay
Jost Lemke

The Decay of the Historical Site of Malecon in Havana, Cuba: Salt Crystallization Damage at Repair Interfaces
Asel Maria Aguilar Sanchez

Application of industrially produced LC3 to pavements, AAC blocks and other products
SK Wali

15:20-15:50   break

15:50   17:30  Parallel Session 7: Performance

Performance-based design procedure applied to the selection of low-co2 binder systems including calcined clay
Wilson Ricardo Leal da Silva

Influence of clay type on performance of calcined clay – limestone Portland cements
Sergio Ferreiro

Properties of the cement-based composites with high content of metakaolin
Biljana Ilić

Ultra-High Performance Concrete with calcined clay
Arezki Tagnit-Hamou

The influence of recycled construction and demolition wastes on the hydration-related properties of cement-based pastes
Thiago Melo Grabois

15:50   17:30  Parallel Session 8: Alkali Activated Binders

Metakaolin-based geopolymers as potential grouts for nuclear waste cementation – an overview
Daniel Geddes

Microstructure and mechanical behaviour analysis of brick walls using alkali activated lime and metakaolin
Jose-Carlos Rubio-Avalos

Alkali-activation of calcined clays – past, present and future
John L. Provis

Structural ordering of aged and hydrothermally cured metakaolin based geopolymers
Susan A. Bernal

Thermal Resistivity of Chemically Activated Calcined Clays-Based Cements
Marangu J. Mwiti

19:30 - 23:00

GALA DINNER
Modeling the impact of calcined clay addition on the durability of concrete in chemically aggressive environments

Jacques Marchand

Overview of mechanical and durability properties of concretes with LC3

Ravindra Gettu

Development of LC3 in Cuba. How to meet development needs in a friendly relationship with the environment?

Fernando Martirena

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10:30-11:00 coffee break

11:00 - 12:40 Parallel Session 9: Durability 1

Carbonation of concrete with low carbon cement lc3 exposed to different environmental conditions

Ernesto Diaz

Carbonation of limestone calcined clay cement concrete

Arnaud Castel

Prediction of carbonation depth in blended systems

Vineet Shah

Degradation of Calcined Clay-Limestone Cementitious Composites under Sulfate Attack

Cheng Yu

Use of limestone and calcined clay to reduce heat production and potential for delayed ettringite formation in mass concrete

Christopher C. Ferraro

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11:00 - 12:40 Parallel Session 10: Reactivity 1

Assessing the effect of calcite impurities in clay on optimal dehydroxylation parameters for enhanced reactivity

Franco Zunino

Applicability of lime reactivity strength potential test for prediction of 28-day compressive strength for limestone calcined clay cement

Anuj Parashar

Identification of reactive sites in calcined kaolinite and montmorillonite from a combination of chemical methods and solid-state nmr spectroscopy

Jørgen Skibsted

On the reactivity of calcined clays from lower lusatia for production of durable concrete structures
Klaus-Juergen Huenger
Use of r3 rapid screening test to determine reactivity and chloride binding potential of locally available kaolinite clay
Kyle Riding

12:40-13:40 lunch

13:40-15:20 Parallel Session 11: Durability 2

- Durability of concrete made with calcined clay composite cement
  Roland Pierkes
- Assessment of calcined clays according to the main criterions of concrete durability
  André Trümer
- Analysis of chloride transport in LC3 binders
  Karen Scrivener
- Development of the microstructure in LC3 systems and its effect on concrete properties
  Yuvaraj Dandapani

13:40-15:20 Parallel Session 12: Reactivity 2

- Thermal activation of two complex clays (kaolinite-pyrophillite-illite) from tandilia system (Buenos Aires, Argentina)
  Monica A. Trezza
- Evaluation of calcined clays from Boyaca-Colombia containing alunite as supplementary cementitious materials.
  Ariam Lozano Perez
- Thermal transformation and pozzolanic activity of illite-chlorite clays
  Edgardo F. Irassar
- Assessment of calcination for a construction and demolition waste (excavation clays), based on physical characteristics and mineralogy
  Hernan Gonzalo Yanguatin Botina
- Effect of carbonate minerals and calcination of carbonatites and kamafugites on their pozzolanic performance and early age concrete properties
  Apollo Buregyeya