

## Day 1: 15 October 2019

Time	Agenda/Talk		
09:00	Registration starts		
<b>Session 1: Inauguration</b>			
10:00 – 10:10	Welcome and lamp lighting, Shashank Bishnoi, IIT Delhi		
10:10 – 10:20	Speech by Prof. Ravindra Gettu, IIT Madras, President of RILEM		
10:20 – 10:30	Speech by Mr. S.K. Wali, Wholetime Director, JK Lakshmi Cement Ltd.		
10:30 – 10:45	Speech by Dr. Ashok Khosla, Chairman, Development Alternatives		
10:45 – 11:00	Speech by H.E. Dr. Andreas Baum, Ambassador of Switzerland to India		
11:00 – 11:30	<b>Tea break</b>		
<b>Session 2: Plenary session</b>			
11:30 – 12:00	Prof. Fernando Martirena, CIDEM, The dissemination of the technology “LC3” in Latin America. Challenges and opportunities		
12:00 – 12:30	Prof. Jorgen Skibsted, Aarhus University, Department of Chemistry, Reactivity of calcined clays in Portland cement blends studied by solid-state NMR		
12:30 – 13:00	Prof. Kyle Riding, University of Florida, What’s Old is New Again: A Vision and Path Forward for Calcined Clay Use in the United States		
13:00 – 14:00	<b>Lunch</b>		
<b>Session 3: Parallel sessions</b>			
Time	Talk	Time	Talk
14:00	Prof. Herbert Poellmann, University, Quantifications of cements composed of OPC, Calcined Clay, Pozzolanes and and Limestone	14:00	Dr. Joseph Mwiti Marangu, Meru University of Science & Technology, Meru – Kenya, Potential for Selected Kenyan Clay in Production of Limestone Calcined Clay Cement
14:15	Mr. Sreejith Krishnan, IIT Delhi, Why low-grade calcined clays are ideal for the production of limestone calcined clay cement (LC3)	14:15	Dr. Roger S. Almenares, Instituto Superior Minero Metalúrgico de Moa, Clay deposits from the northeastern of Cuba: characterization, evaluation and use as a source of supplementary cementitious materials
14:30	Mr. Franco Zunino, EPFL, The origin of the increased sulfate demand of blended cements incorporating aluminum-rich supplementary cementitious materials	14:30	Dr. Iván Machado, Center for Research and Development of Structures and Materials (CIDem), Central University “Marta Abreu” of Las Villas (UCLV), Elements for the design of experimental plant for LC3 cement production.
14:45	Dr. Shiju Joseph, Ku Leuven, Hydration of tricalcium silicate blended with calcined clay	14:45	Dr. GVP Bhagath Singh, École polytechnique fédérale de Lausanne (EPFL), Performance of limestone calcined clay cement (LC3) based lightweight blocks
15:00	Dr. Kolawole Olonade, University of Lagos, Effects of Curing Techniques on Compressive Strengths of Blended Calcined Clay-Cement Concrete	15:00	Prof. Hemraj R. Kumavat, NMIMS Shirpur, Utilization of Clay Brick Waste Powder for Partial Replacement with Cement in Cement Mortar
15:15	Mr. Yuvaraj Dhandapani, IIT Madras, Influence of calcined clay-limestone ratio on properties of concrete with Limestone Calcined Clay Cement (LC3)	15:15	Dr. Usha Sharma, CSIR-Central Building Research Institute, Roorkee, Performance and durability of high volume fly ash cementitious system incorporating silica nanoparticles

15:30 – 15:45	<b>Tea break</b>		
<b>Session 4: Parallel sessions</b>			
Time	Talk	Time	Talk
15:45	Prof. Harald Justnes, SINTEF Building and Infrastructure, Evaluation of ceramic waste from Goa as SCM	15:45	Dr. Dinakar Pasla, Indian Institute of Technology Bhubaneswar, Corrosion Properties of Self Compacting Lightweight Concrete Using Metakaolin
16:00	Mr. Luiz F. de Pinho, Dynamis Mecânica Aplicada, A flexible technology to produce graded calcined clays	16:00	Prof. Raktipong, Sahamitmongkol, King Mongkut's University of Technology Thonburi (KMUTT), Thailand, Chloride resistance of cementitious materials containing calcined clay and limestone powder
16:15	Dr. Mukesh Kumar, JK Lakshmi Cement Ltd., Development of green additive for cement & concrete industries	16:15	Prof. Radhakrishna Pillai, IIT Madras, Chloride-induced corrosion resistance of steel embedded in Limestone Calcined Clay Cement systems
16:30	Mr. Emmanuel Leo, University of Cape Town, Potential of selected South African kaolinite clays for clinker replacement in concrete	16:30	Dr. Emmanuel Roziere, Ecole Centrale de Nantes, Hydration and durability of ternary binders based on metakaolin and limestone filler
16:45	Mr. Shengliang Tang, Sinoma International Engineering Co., Ltd, Research and design of suspension calcining technology and equipment for kaolin	16:45	Prof. Arnaud Castel, UNSW Sydney, Mitigation of Alkali-Silica Reaction In Limestone Calcined Clay Cement Based Mortar
17:00	Mr. Pranav Desai, NUvoco Vistas Corp Ltd., Plastic and Hardened Properties of LC3 and LC3 Concrete and Economic Viability of Use: Indian Ready Mix Industry Perspective	17:00	Dr. Francois Avet, EPFL, Study of concrete made of Limestone Calcined Clay Cements (LC3)
17:30 – 21:00	<b>Visit to Dilli Haat (INA)</b>		

## Day 2: 16 October 2019

### Session 5: Plenary session

Time	Talk
09:00 – 09:30	Plenary: Prof. Karen Scrivener, EPFL, Switzerland, Understanding the excellent resistance of LC3 to the ingress of chloride ions
09:30 – 09:50	Keynote: Prof. Ravindra Gettu, IIT Madras, Life cycle calculations of LC3
09:50 – 10:10	Keynote: Dr. Soumen Maity, Development Alternatives, Suitability and Characteristics of Clays for Low Carbon Cement Applications
10:10 – 10:25	Dr. Adrian Alujas Diaz, Universidad Central de las Villas, The experience of Cuba – TRC on the survey of kaolinitic clay deposits as source of SCMs. Main outcomes and learned lessons.
10:25 – 10:40	Prof. B. Bhattacharjee, IIT Delhi, Thermal and moisture transport properties of cement based material with calcined clay
10:40 – 10:55	Prof. Edgardo Irassar, Universidad Nacional del Centro de la Provincia de Buenos Aires, Durability of concrete containing calcined clays: Comparison of illite and low grade kaolin
10:55 – 11:10	<b>Tea break</b>

### Session 6: Parallel sessions

Time	Talk	Time	Talk
11:10	Dr. Dhanada Mishra, Hong Kong University of Science and Technology, Comparison of Pozzolanic Strength Activity of Limestone-Calcined Clay and Class F Fly Ash	11:10	Prof. Klaus-Juergen Huenger, Brandenburg University of Technology Cottbus-Senftenberg, Calcined Clays and Geopolymers for stabilization of loam structures for plaster and bricks

11:25	Dr. Francois Avet, EPFL, Density of C-A-S-H in plain cement and Limestone Calcined Clay Cement (LC3)	11:25	Dr. Luca Valentini, University of Padua, Performance and properties of alkali-activated blend of calcined laterite and waste marble powder
11:40	Ms. Meenakshi Sharma, IIT Delhi, Microstructural modelling of the microstructural development of limestone calcined clay cement	11:40	Mr. Baptiste Luzu, IFSTTAR, High performance illitic clay-based geopolymer: Influence of the mechanochemical activation duration on the strength development
11:55	Mr. Satish Kumar Agarwal, National Council for Cement and Building Materials, Investigations on Limestone Calcined Clay Cement System	11:55	Prof. N.B. Singh, Sharda University, Calcined clay based geopolymer mortar and its properties in presence of alccofine powder and Recron fiber
12:10	Mr. Hai Zhu, University of Florida, Sulfate Optimization for CC1L Blended Systems	12:10	Dr. Viviana Rahhal, Universidad Nacional del Centro de la Provincia de Buenos Aires, "Alkaline activation of blended cements with calcined illitic clay using glass powder wastes"
12:25	Mr. Arun Emmanuel, Indian Institute of Technology Delhi, The Influence of Temperature Regime on Performance of Low Clinker Blended Cements	12:25	Dr. Simone Elisabeth Schulze, Nordrhein-Westfalen, Activated calcined clays as cement main constituent
12:40	Ms. Wilasinee Hanpongpan, EPFL, The effect of curing temperature on the properties of Limestone Calcined Clay Cement (LC3)	12:40	Ms. Sreedevi Lekshmi, National Institute of Technology Calicut, Qualifying of Low Grade Clay for Geopolymer Mortar: A Preliminary Assessment
12:55 – 14:00	<b>Lunch</b>		

### Session 7: Parallel sessions

Time	Talk	Time	Talk
14:00	Dr. Tobias Danner, Sintef Building and Infrastructure, The Effect of Calcite in the Raw Clay on the Pozzolanic Activity of Calcined Illite and Smectite	14:00	Mr. Matthias Maier, Bundeswehr University Munich, An approach for the evaluation of local raw material potential for calcined clay as SCM, based on geological and mineralogical data: Examples from German clay deposits
14:15	Dr. S.K. Saxena, JK Lakshmi Cement Ltd., LC3 Cement produced by adding new additives	14:15	Mr Anuj Parashar, IIT Delhi, Activation of early age strength in fly ash blended cement by adding limestone calcined clay (LC2) pozzolan
14:30	Dr. Mariana Canunt, FLSmidth, Calcined clay: Process impact on the reactivity and color	14:30	Ms. Nsesheye Susan Msinjili, Bundesanstalt für Materialforschung und -prüfung (BAM), Comparison of brick clays and a kaolinitic clay regarding calcination and performance in blended cement mortars
15:00	Mr. Franco Zunino, EPFL, Improving the behaviour of calcined clay as supplementary cementitious materials by a combination of controlled grinding and particle selection	15:00	Mr. Anjaneya Dixit, National University of Singapore, Potential of Marine Clay for Cement Replacement and Pozzolanic Additive in Concrete
15:15	Mr Goplala Rao, IIT Delhi, Influence of calcium sulphate on hydration of cements containing calcined clay	15:15	Dr. Pozhhan Mokhtari, Sabanci University, Influence of Calcination Temperature on Schist Type Materials Reactivity
15:30	Ms. Nozonke Dumani, CSIR, Meiring Naude Road, Evaluation of age strengths of metakaolin blend pastes with varying fineness of grind	15:30	Dr. Satya Medepalli, IIT Delhi, The effect of composition of calcined clays and fly ash on their dissolution behaviour in alkaline medium and compressive strength of mortars

## Session 8: Poster session with tea

Time	Poster (tentative list)
15:45 – 17:00	Mr. Anjain Kumar Shukla, IIT BHU, Cost and Energy Analysis of R.C. Beam – By Direct Search Exhaustive Enumerative Approach
	Mr. Ashok Kulkarni, Cong Thanh Cement Joint Stock Company , Calcined Clays for Sustainable Concrete Delhi
	Mr. Sameer Singh Patel, Madan Mohan Malaviya University of Technology, Gorakhpur, Sustainability of Limestone- Calcined Clay Cement: A State-of-the-art and Analysis
	Dr. Sumedha Moharana, Shiv Nadar University, Clinkering of Calcium Sulfoaluminate (CSA) Cement using industrial waste and experimental characterization of its micro-structural properties during early hydration
	Ms. Yosra Birki, EPFL, The limiting factors for SCMs reaction in cement pastes at late ages
	Dr. Yosvany Diaz Cardenas, CIDEM, Evaluation of carbonation in samples made with LC3 low carbon cement. In the period from 2015 to 2017
	Mr. Franco Zunino, EPFL, The effect of different impurities in calcined clay on its reactivity
	Dr. Francois Avet, Simple and reliable quantification of kaolinite in clay using an oven and a balance
	Mr. Franco Zunino, EPFL, Influence of kaolinite content, limestone particle size and mixture design on early-age properties of limestone calcined clay cements (LC3)
	Mr Harsh Vardhan, IIT Delhi, Assessment of Sorptivity and Porosity characteristics of Self-compacting Concrete from blended cements using calcined clay and fly ash at various replacement levels
	Mr Tarun Gaur, IIT Delhi, Influence of carbonation on Mechanical and transport properties of limestone calcined clay blend mortar mix
	Mr Yogendra Singh Patel, IIT Delhi, Service life modeling in propagation phase of corrosion in concrete due to carbonation
Mr. Arash Zolfagharnasab, Amir Kabir University of Technology, Effect of curing condition and Metakaolin incorporation on mechanical properties and hydration of cementing materials	
17:00 – 19:00	<b>Walk to Lodhi Gardens</b>
19:30 – 22:00	Banquet dinner at Margosa lawn, India Habitat Centre, Lodhi Road, New Delhi

## Day 3: 17 October 2019

### Session 9: Parallel sessions

Time	Talk	Time	Talk
09:00	Plenary: Prof. Manu Santhanam, IIT Madras, Perspectives on Durability of Blended Systems with Calcined Clay and Limestone		
09:30	Keynote: Prof. Johann Plank, TUM, Accessibility of a Calcined Mixed Layer Clay for Amphoteric Superplasticizers and Its Application as Supplementary Cementitious Material		
09:50	Prof. Shamsad Ahmad, King Fahd University of Petroleum & Minerals, Utilization of Limestone Powder and Metakaolin as Mineral Fillers in High Performance Self-Compacting Concrete	09:50	Dr. Kolawole Olonade, University of Lagos, Engineering Properties of Blended Cement - Calcined Clay Sandcrete Blocks
10:05	Prof. Klaus-Juergen Huenger, Brandenburg University of Technology Cottbus-Senftenberg, On the Workability of Mortar and Concrete Mixtures containing Calcined Clay Blends	10:05	Prof. Kyle Riding, University of Florida, Feasibility Study for Calcined Clay Use in the Southeast United States

10:20	Mr. Brandon Lorentz, University of Florida, Effect of Clay Mineralogy, Particle Size, and Chemical Admixtures on the Rheological Properties of CCIL and CCI/II Systems	10:20	Ms. Jitha P T, BMS College of Engineering, Alternative Masonry Binders and Units using LP Cement-Soil-Brick Powder Blend and Low-Molar Alkaline Solution
10:35	Prof. Dinakar Pasala, IIT Bhubaneswar, Rheological Properties of Self Compacting Lightweight Aggregate Concrete Using Metakaolin	10:35	Mr. Matthias Maier, Bundeswehr University Munich, Potential of a calcined recycling kaolin from silica sand processing as supplementary cementitious material
10:50 – 11:05	<b>Tea break</b>		

### Session 10: Parallel sessions

Time	Talk	Time	Talk
11:05	Ms. Guillemette Cardinaud, Ecole Centrale de Nantes, Calcined clay - limestone cements: hydration and mechanical properties of ternary blends	11:05	Dr. Sofía Sánchez Berriel, Central University of Las Villas, Impacts assessment of local and industrial LC3 in Cuban context: challenges and opportunities
11:20	Mr. Fabio Oliveira, Universidade de Sao paulo, Weibull Probabilistic Analyses on Tensile Strength of Limestone Calcined Clay (LC <sup>3</sup> ) and Portland Cement Pastes	11:25	Prof. Jorgen Skibsted, Aarhus University, Department of Chemistry, Effect of Temperature on the Hydration of White Portland Cement – Metakaolin Blends Studied by 29Si and 27Al MAS NMR
11:35	Dr. Jing Yu, Hong Kong University of Science and Technology, Sustainable PVA Fiber-Reinforced Strain-Hardening Cementitious Composites (SHCC) with Ultrahigh-Volume Limestone Calcined Clay	11:40	Dr. Vineet Shah, University of Canterbury, Use of kaolin clay as a source of silica in MgO-SiO <sub>2</sub> binder
11:50	Dr. Jing Yu, Hong Kong University of Science and Technology, Using Limestone Calcined Clay to Improve Tensile Performance and Greenness of High-Tensile-Strength Strain-Hardening Cementitious Composites (SHCC)	11:55	Mr. Ashish Shukla, GLA University, Study on the efficacy of natural pozzolans in cement mortar
12:05	Prof. Visalakshi Talakokula, Bennett University, Monitoring of Strength Development of Cement Substituted by Limestone Calcined Clay Using Different Piezo Sensor Configurations	12:10	Mr. Mirza Abdul Basit Beigh, TU Dresden, Studying the rheological behavior of limestone calcined clay cement (LC <sup>3</sup> ) mixtures in the context of extrusion-based 3D-printing
12:20	Mr. Renan Ribeiro, Universidade de Brasília, Elastic modulus evolution of LC <sup>3</sup> cement pastes since early ages	12:25	Mr. Pedro Abrao, USP, Comparing the ecoefficiency of cements containing calcined clay and limestone filler
12:35	Dr. Zhenyu Huang, Shenzhen University, Bond behavior between Limestone Calcined Clay Cement (LC3) concrete and steel rebar	12:40	Mr. Sachin Gunjal, S.V.National Institute of Technology, Surat, Study on fresh and harden properties of Limestone calcined clay cement (LC3) production by Marble stone powder
12:50 – 13:50	<b>Lunch</b>		

### Session 11: Parallel sessions

Time	Talk	Time	Talk
13:50	Prof. Edgardo Irassar, Universidad Nacional del Centro de la Provincia de Buenos Aires, Volumetric Deformations at Early Age on Portland Cement Pastes with the Addition of Illitic Calcined Clays	13:50	Mr. Augustin Rossetti, Universidad Nacional del Centro de la Provincia de Buenos Aires, Performance of Blended Cements with Limestone Filler and Calcined Clay Immediately Exposed to Sulfate Environment

14:05	Ms. Payal Dubey, GLA University, Experimental Investigation on Strength and Durability of Concrete with Partial Replacement of Cement Using Calcined Clay	14:05	Mr. Julien Ston, EPFL, Basic creep of LC3 paste: links between properties and microstructure
14:20	Mr. Yanapol Thitikavanont, King Mongkut's University of Technology Thonburi (KMUTT), Thailand, Heat Generation and Thermal Properties of Limestone Calcined Clay Cement Paste	14:20	Dr. William Wilson, EPFL, Tortuosity as a Key Parameter of Chloride Diffusion in LC3 Systems
14:35	Mr. Sergio Ferreiro, Cementir Holding S.p.A., Calcined clay-to-limestone ratio on durability properties of concrete with low clinker CEM II/B-M(Q/LL) cements	14:35	Mr. Kandagaddala Revanth Kumar, IIT Bombay, Limestone calcined clay as potential supplementary cementitious material – An Experimental study
14:50	Prof. Visalakshi Talakokula, Bennett University, Study of Durability Aspects of Limestone Calcined Clay Cement Using Different Piezo Sensor Configurations	14:50	Ms. Divya Rani, Indian Institute of Technology, Madras, Reactivity of clay minerals in intervention mortars
15:05	Mr. Lav Singh, IIT Delhi, Assessment of the efficacy of waterproofing admixtures using calcined clay and SCMs	15:05	Mr. Bin Wang, Sinoma International Engineering Co., Ltd, Identification and Activation of Coal Gangue and Performance of Limestone Calcined Gangue Cement
15:20	<b>Closing talk:</b> Prof. Shashank Bishnoi, IIT Delhi, Limestone Calcined Clay Cement: Opportunities and Challenges		
15:40	<b>Award distribution and closing</b>		
16:00	<b>High tea</b>		