

EVENTS

3rd International Conference on Calcined Clays

15-17 October 2019 | Delhi, India

This conference aims to follow up on the scientific studies and experiences of the application of calcined clays in cement and concrete construction.

Key topics will include:

- Life-cycle analysis, economics, and environmental impact of use of calcined clays in cement and concrete
- Influence of processing on reactivity of calcined clays and influence of clay mineralogy on reactivity
- Hydration, durability, and performance - Portland calcined clay systems and calcined clay - alkali systems
- Field applications
- Clay in general construction
- Calcined clay - new blends

Keynote speakers include : Karen Scrivener, Professor and Head of Laboratory of Construction Materials at the Swiss Federal Institute of Technology (EPFL), Switzerland.

Jørgen Skibsted, Professor at the Department of Chemistry, University of Aarhus, Denmark.

Fernando Martirena, Director of CIDEM (Center for Research & Development of Structures and Materials) at the Universidad Central de las Villas in Santa Clara, Cuba.

Manu Sanathanam, Professor at the Department of Civil Engineering, Indian Institute of Technology (IIT) Madras, Chennai, India.

Invited Speakers include : Mr. Vipul Ahuja, Prof. D.R. Sahoo, Dr. Demin Feng, Prof. Yogendra Singh, Dr. Anirudh Rao, Ms. Rupa Garai, Prof. Amit Kanvinde.

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International Seminar on Performance – Based Design of Buildings & Bridges for Enhanced Seismic Resilience

08-09 November 2019 | New Delhi, India

The seminar provides a unique opportunity for all delegates to learn and interact with domestic and international experts on this relatively new topic; share and discuss various issues of their current projects. The detailed tools for performing the high-end non-linear analysis such as Static Non-Linear Procedure

(pushover analysis), Non-Linear Dynamic Analysis, Incremental Dynamic Analysis & creation/ use of Fragility Curves will also be discussed along with case studies.

This seminar will provide a common platform for multiple stakeholders for a truly practical, interactive, and collaborative approach in the industry.

Indian Association of Structural Engineers (IAStructE).

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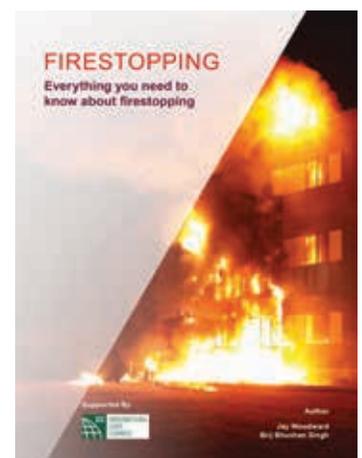
Hilti to Launch Firestopping Book

15 November 2019 | India

There have been many fire incidents which challenged the understanding and the breadth of knowledge about fire science among architects and consultants. Since long, and even now the it has been seen that the general practice for handling fire protection of the building is by installing sprinklers, detector & evacuation design. And the compartmentation has been so far hugely misunderstood by referring to only system- Fire Door. This notion is not only flawed but also dangerous. The common reason behind such flaw in the understanding about this subject is that it is not addressed in any Curriculam. Hence, industry understands it primarily via journals and magazine articles.

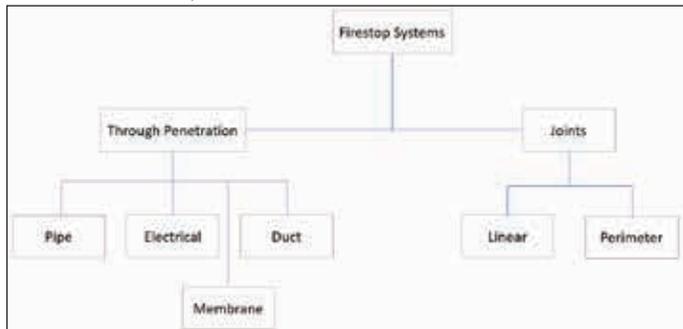
This dedicated book about Firestop systems which can help architects, consultants, inspectors & students about Firestopping. This publication is written in collaboration with International Codes Council, authored by Jay Woodward, an established architect in USA and Brij Bhushan Singh, who has years of experience about Fire Protection.

Many code users have a general understanding of the code provisions for fire-resistant construction and are aware of some of the requirements for penetration firestop systems and joint systems. However, they may not be aware of the importance and distinct differences between these devices and systems, exactly how and where they are each to be used, or the correct installation for satisfying the code requirements. This book was developed to provide the most comprehensive look at the National Building



Code and International Building Codes' penetration & joint requirements.

Regardless of the experience level of the code user, this book will be beneficial to building, fire or mechanical officials, plans examiners, inspectors, design professionals, contractors, students and others in the construction industry by guiding the reader through each specific code section and exception. The discussion and commentary with each provision along with the illustrations will help in explaining the exact type of protection required as well as directing the reader toward other related sections or resources that regulate the installation, inspection or evaluation of the protection.



When reviewing the code's requirements related to fire-resistance-rating and/or smoke-resistant assemblies, knowing a bit about each of the specific test standards and the distinction between a fire-resistance rating and a fire-protection rating are important aspects to understand. Each of the specific test standards used in the evaluation of the assemblies, components or penetrations has its own pass/fail criteria used to determine compliance or acceptance in meeting the requirements. By focusing on the penetration firestop systems and joint systems, this book will hopefully make the code requirements easier to understand and apply so that the fire-resistance-rated assemblies may continue to do their job and protect the buildings and people within them. Unless these breaches (openings, penetrations, joints) and other features of fire-resistance and smoke-resistant assemblies are properly protected, we will not get the level of building safety we expect.

This book will throw light on each topic of firestopping with a goal to save lives, protect assets and enhance building performance.

UPDATES

73rd RILEM Annual Week and International Conference on Innovative Materials for Sustainable Civil Engineering (IMSCE) : A Review



The 73rd RILEM Annual Week took place in Nanjing, China, on 25-28 August 2019. During this event, 6 RILEM Technical Committees (TMS, SHE, 270-CIM, 244-NUM, FTC and CEC) and the RILEM Standing Committees gathered at the Nanjing International Youth Cultural Centre, designed by the famous architect Zaha Hadid, to discuss the progress of their work and to plan future actions. The International Conference on Innovative Materials for Sustainable Civil Engineering (IMSCE)

started a couple of days later, on 27 August and it concluded its activities on 30 August 2019. The conference hosted 17 keynote speakers, 6 plenary sessions and 289 delegates.

The first plenary lecture of the conference was given by Dr. Augusto Cannone Falchetto, recipient of the 2019 RILEM Robert L'Hermite medal. He offered an insight of his numerical model for asphalt mixture materials and his studies on size effect

at low temperature. The other keynote lectures were given by experts on, to mention a few topics, concrete admixtures, calcined clay concretes and concrete sustainability.

A special feature of this event was the "China Engineering Construction Forum". The Forum was the first of its kind, i.e. a RILEM-sponsored Chinese event with speakers coming mainly from the Chinese industrial sector. It was a great occasion to learn from the Chinese chief engineers the challenges and accomplishments of projects dealing with high-speed railway,

crossing-sea bridges, nuclear power plants, and other mainly concrete-made mega-structures.

The RILEM banquet, the conference welcome reception, and gala dinner gave the IMSCE delegates and the RILEM members the opportunity to greet old and new friends, create some networking and try the exquisite local cuisine. More details about this event can be found on the RILEM.

webpage: www.rilem.net/news/339.

7th International Colloquium on Performance, Protection & Strengthening of Structures Under Extreme Loading & Events

16-17 September 2019 | Whistler, Canada



THE UNIVERSITY OF BRITISH COLUMBIA

Department of Civil Engineering

SIERA: Sustainable Infrastructure Research Group



Academics, scientists, and design professionals from government and industry from around the world (24 countries) gathered to share their latest research findings and to learn of the recent advances in extreme loadings in the field of structures and materials.

Aging infrastructures, climate change, and growing populations mean that the need to protect and strengthen structures from extreme events has become ever more urgent. Beyond providing a platform for students, faculty, producers, designers, builders, and consultants to acquaint themselves with cutting-edge research, the ultimate aim of PROTECT 2019 has been to enable cross-fertilization of ideas to make our structures safer under extreme loading and events.

Innovative research and encouraging findings, leading to significant industry advancements and positive social impact were presented at PROTECT 2019. Chaired by Dr. Nemy Banthia, Professor of civil engineering at the University of British Columbia and a Senior Canada Research Chair in Infrastructure Rehabilitation and Sustainability, the colloquium had a total of

112 technical papers presented in 20 technical sessions spread over the course of two days. Topics included Performance of structures, Strengthening of structures for extreme loading, Performance of materials under extreme loading, and Structural management and protection stimulated discussions and motivated directions for future research and international collaborations.

The hallmark of the PROTECT Series is the technical program. The different tracks of technical sessions were evaluated and chosen to create a robust selection of topics on performance and resiliency of material and structural systems under extreme loading conditions. In addition, a plenary session on day one featured an honorary address by three eminent experts who were recognized for their life-long contributions to the field. Professor Yoshimi Sonoda, for his outstanding contributions in the field of dynamic performance of structures; Professor David Yankelevsky, for his incredible achievements in the field of impact engineering; and Professor Bo Wu, for his leading research in the field of performance of structures during fire and blast.



ACC Region East organised a successful Talk show for Influencers

September 27, Kolkatta, India



Renowned academicians and professionals shared insights on a key theme - Recent Challenges in Civil Engineering and Construction.

Over 150 engineers, architects, and consultants attended the session organised by ACC Region East at Kolkatta. Keynote speakers Dr. Debasish Bandyopadhyay, Head of Department Jadavpur University Construction Department, Dr. Subhajit Saraswati, Dr. Dipesh Mazumdar, and reputed structural engineer Mr. Sanjiv Parekh together discussed helped them understand challenges in construction and shared some interesting case studies.

ACC' journey to transform into a total building materials company that offers innovative products and solutions. In addition to cement and concrete, they now offer new Solutions and Products was shared by Shailesh Ambastha - Regional Head - East.

OBITUARY NOTE: Prof. Povindar Kumar Mehta



The late Professor **Povindar Kumar Mehta** (August 27, 1930 – August 7, 2019)

It is with profoundest regret that we share the passing of Prof. Povindar Kumar Mehta on August 7, 2019 at the age of 88. We express our most sincere condolences to his family, colleagues, and friends. Prof. P. K. Mehta was born in Nurpur, on August 27, 1930. He received his undergraduate degree in Chemical Engineering from University of Delhi;

Master of Science in Ceramic Engineering from North Carolina State University; and PhD in Material Science and Engineering from University of California (UC), Berkeley. He retired in 1993, post 30 years of teaching and research in concrete technology as Professor Emeritus in Civil and Environmental Engineering at the UC, Berkeley. A pioneer in many ways, he immensely contributed to the research in sustainable concrete. He was a recipient of various prestigious awards: American Concrete Institute (ACI) Wason medal for Materials Research in 1988, the ACI Construction Practice Award in 1999, ACI/ CANMET award for outstanding contributions to knowledge and understanding of physical-chemical factors influencing the performance of concrete in marine environments, and an ACI/ CANMET award for research contributions to supplementary cementing materials. In addition, upon his retirement he was awarded the Berkeley Citation by University of California, Berkeley, the highest campus honor for his immense contribution both to his field and to the university. In 2006, Mehta received honorary membership to ACI, the institute's highest honor recognizing him for dedicated teaching and research in concrete materials and technology that have resulted in increased use of supplementary cementitious materials, especially high volume fly ash concrete; and for leading the concrete industry toward more sustainable concrete structures. He has nine patents in the area of cement and concrete technology. He authored or

coauthored 4 books, including a popular university textbook: Concrete – Microstructure, Properties, and Materials, which has been extensively referred to and translated into Chinese, Japanese, Portuguese, and Spanish, and Persian languages.

Professor Mehta also made numerous humanitarian contributions, through his voluntary service. Fifty years ago, he established Front for Rapid Economic Advancement (FREAA), raising funds for humanitarian causes in India and identifying individuals willing to go to India to conduct development work after independence. The FREAA evolved into ICA (Indians for Collective Action), which has raised and disbursed 8 million dollars to over 300 charitable organizations, serving marginalized populations in 20 states. He positively contributed to social change, bringing awareness to various social causes in a non-violent way, and promoted this practice through AHIMSA, – a non-profit organization he founded in the early 1990's. Some of his other contributions to humanitarian causes in recent years included the development of Himalaya Foundation, a project that supports the training of young men and women in rural development work like farming, water resource management, building seismically low-cost housing, monitoring pollution, and more. He also supported the cause of increasing literacy levels in India, by organizing the shipment of textbooks from the US to India through Vivekananda Foundation Literacy Project, and giving several scholarships annually to fund higher education of low income children in Himachal Pradesh. His final projects included designing the foundations for a number of Hindu temples in the United States and Canada using high volume fly ash. We will all miss him not only as an engineer with a deep knowledge and commitment to give back to the society but as a friend we loved so much.

Prof. Dr. Ravindra Gettu
Indian Institute of Technology (IIT) Madras.