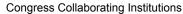


Venue:

Dr B R Ambedkar National Institute of Technology Jalandhar – 144 011 (Punjab) India

www.ukiericoncretecongress.com

Third Announcement











Institution of Civil Engineers, UK

Indian Concrete Institute

Japan Concrete Institute

Institution of Structural Engineers, UK



- India is a country of massive opportunities and potential and has become of strategic importance, globally.
- The Congress will bring together global experts and providers of materials, design, techniques and innovations to this unique event.
- India is well placed to host such an occasion because it can and will act as sounding board for new ideas, knowledge exchange and experience in an environment that lends itself to communication and application resulting in genuine "learning by doing and adoption".
- India is free spirit that can facilitate collaboration leading to the exploitation of innovation and contribute to concrete's development globally.
- This Congress offers the opportunity to continue what is new in concrete technology and science with culture.
- Indian culture is different and will leave a lasting impression. This is an opportunity to learn and yet explore its heritage and its people. We hope to welcome you.















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Chairman, Board of Governors Dr B R Ambedkar National Institute of Technology Jalandhar, India

Avtar Singh

President, Managing Committee Guru Nanak Dev Engineering College Ludhiana, India

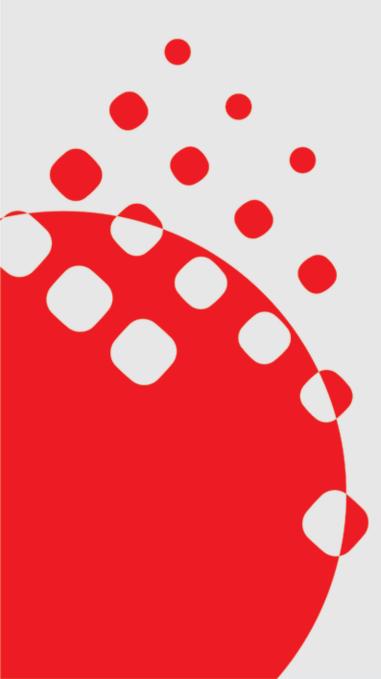
Patrons

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Director, Dr B R Ambedkar National Institute of Technology Jalandhar, India

M S Saini

Director, Guru Nanak Dev Engineering College Ludhiana, India



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R Mangabhai

Mangabhai Consulting, UK

S Kuma

Assistant, UKIERI Concrete Congress

Hotel Accommodation

To ensure that your stay in Jalandhar can be arranged well in advance, the Organising Committee has drawn up a list of local hotels and where possible negotiated specially discounted rates. Two such lists are available on the Congress Website. The delegates are advised to contact the hotels directly to make their reservations, but let us know at ucc@nitj.ac.in if they experience any difficulty and we would be very happy to assist. Please note that there will be shuttle transport service between all hotels and the Congress venue at all times during the Congress period. For details, please visit Congress Website: ukiericoncretecongress.com

Pre and Post Congress Tours

To ensure that delegates enjoy their visit to India and use the opportunity of coming to the Congress to learn and explore Indian heritage and people, the Organising Committee has negotiated special rates with three major operators for 14 tours across the country and we hope that this will help. For details, please visit the Congress Website: ukiericoncretecongress.com

Traveling to Jalandhar

The city of Jalandhar is situated on National Highway No 1. It is 350 km away from New Delhi and is easily accessible by train. The Shatabdi Express trains plying between New Delhi and Amritsar (via Jalandhar City) are the best mode of travel to and from Jalandhar. The nearest international airport is at Amritsar about 90 km from Jalandhar.

Congress Fees

The Congress fee will include all lunches, teas / coffees, refreshments, Congress dinner and proceedings. It has been devised to have wide international participation. The fee structure is shown below, but the details regarding mode of payment etc. shall be intimated shortly.

Fee Per Delegate (₹)								
	1	2	3 or more					
	Delegate	Delegates	Delegates					
Early bird registration*	5500	5000	4500					
Standard registration	8000	7000	6000					
Author registration	6500	5500	4500					
Student registration	3000	2800	2600					

^{*} On or before 15 January 2013

Registration / Payment Details

The delegates can register by filling up the Registration Form which is supplied separately. The Registration Form can also be downloaded from the Congress Website. The payments such as Registration Fee and Sponsorship etc. can be made either by Bank Transfer or by Demand Draft, the details for which are given below:

Payment by Bank Transfer

UKIERI Concrete Congress Account Name:

Account No .: 65155472509

Bank: State Bank of Patiala

REC Jalandhar-144011, India

IFSC Code: STBP0000841 SWIFT Code: STBPINBB021

Payment by Demand Draft

Demand Draft in favour of UKIERI Concrete Congress, payable at Jalandhar

Kindly send the Registration Form (supplied separately) address given at the last page of this Brochure.



Concrete Calling!

Chairman's Welcome

Welcome to the second UKIERI Concrete Congress, organised by a group of faculty members from ten academic institutions, whose collective wisdom and ability to work together is helping in establishing the Congress as a bi-annual event.

The special features of the Congress 2013 are that it will be honouring seven experts world over for their outstanding contributions in the area of concrete construction and hosting six conferences covering a very wide spectrum of subject areas, reflecting new developments and innovations in the area of concrete construction, in response to the challenges of sustainability.

I am also pleased to say that the Congress Organising Committee has been working hard to ensure that adequate provision for delegates' accommodation at affordable rates is in place and that overseas delegates, should they wish, can explore India through the pre and post Congress tours arranged for them. During the Congress, arrangements will also be made for the accompanying delegate partners for day tours to places of special attraction such as the Golden Temple in Amritsar.

We are ready to welcome you to Jalandhar and very much hope to see you at the Congress, which we hope would be memorable one for all. Should you have any query please do not hesitate to contact us.

Professor Ravindra K Dhir OBE

Opening Session
Tuesday
5 March 2013
13.30 hrs

UKIERI Concrete Congress: Innovations in Concrete Construction

Dedicated to Dr Jean-Marie Chandelle Chief Executive, CEMBUREAU, Belgium

Opening Paper

The European Cement Industry's Quest for Sustainable Construction, its Contribution, Today and Tomorrow



Jean-Marie Chandelle is the Chief Executive of CEMBUREAU, the European Cement Association, a position he has held since 1996. A qualified Belgian lawyer, with a Master of Laws and a Ph.D, Dr Chandelle has held numerous positions including Legal Counsel to SOLVAY, Secretary General of the Interox Group, and Head of Corporate Communications (SOLVAY Group). He teaches Law at the University of Brussels and has published various books and articles in French and in English on Property law, Environmental law and European law as well as articles on Climate Change, the use of alternative fuels in the European cement industry and on EU Policy. He also produces regular contributions as a columnist to international magazines ("Global Cement & Lime Magazine", "Cement International") on topics related to EU law and policies and features relevant to the cement and concrete industries.

Sponsoring of and Exhibiting at the Congress

Sponsoring the Congress

The focal point of the Congress will be the exhibition and organisations are invited to sponsor the event and take the opportunity to exhibit and network with the delegates. Sponsors, depending on package, will gain exposure from a range of promotional benefits as shown below:

Sponsorship and Benefits								
Sponsorship	Cost	Free	Exhibition	Dinner	Presentation at	'Ad' Space		
Package	(₹ in Lacs)	Delegates	Spaces	Spaces	Opening Session	in Final		
			(Units)*		(Minutes)	Programme		
						(Page)		
Patron	10	20	4	20	30	1		
Platinum	4	8	3	8	15	1/2		
Diamond	3	6	2	6	10	1/2		
Gold	2	4	1	4		1/4		
Silver	1	2	1	2		1/4		
Congress Dinner	1 /2	3	1 /2	3		1/4		
Congress Lunch	1	2	1	2		1/4		

^{* 2} meter length

In addition, Congress Website will prominently display details of Sponsors and link directly to the Sponsor's own Website. Sponsor's company profile will also be printed in the programme given to all the delegates at the Congress.

For sponsorship information, please contact:

Professor Ravindra K Dhir OBE University of Dundee, UK /

Trinity College Dublin, Ireland

Congress Chairman

t +44 121 4278 108

e r.k.dhir@dundee.ac.uk

Exhibiting at the Congress

Organisations may simply wish to be Exhibitors at the Congress (at the cost of ₹ 0.50 Lacs per unit space).

For exhibition information, please contact:

Professor H S Rai Congress Joint Secretary Department of Civil Engineering Guru Nanak Dev Engineering College Ludhiana – 141 006 (Punjab)

India

t +91 161 2491 193 (O) +91 98552 25007 (M)

f +91 161 5064 742, 2502 240 (by attention)

e hsrai@gndec.ac.in, hardeep.rai@gmail.com

Conference 1 Wednesday 6 March 2013

High Performance Concrete Using Admixtures

Dedicated to Professor Peter C Hewlett Former Chief Executive, British Board of Agrement, UK

Themes

- Measuring Performance and Test Methods
- Self Compacting Concrete
- Rheology/Set Controllers
- High Performance Superplasticisers
- Early High Strength Concrete
- High and Ultra High Strength Concrete
- Shrinkage Compensating Concrete
- Water Proofed Concrete

- Enhanced Permeation Properties
- **Durability Enhancement**
- High Performance in Multi-Aggressive Exposures
- **Developments in Under Water Construction**
- **Foamed Concrete**
- **Decorative Concrete**
- Other Products/Applications

Scientific and Technical Advisory Committee

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- Prof Ioanna Papayianni, Aristotle University of Thessaloniki,
- Prof S A Reddi, Value Engineering Consultant, India
- Prof Luping Tang, Chalmers University of Technology, Sweden

Opening Paper

Professor Peter C Hewlett

Former Chief Executive, British Board of Agrement, UK

Paper Title: Cement Admixtures: Trends, Developments and Attitudes

Keynote Papers



Dr Bruce Christensen

Vice-President, Global Technology and Innovation Management, BASF Construction Chemicals, Mannheim, Germany Paper Title: Chemical Admixtures for Concrete: Science, Technology and Applications



Professor Bishwajit Bhattacharjee

Indian Institute of Technology Delhi, India Paper Title: Evolution of Modern Sustainable Concrete through Admixtures

Professor S P Singh

National Institute of Technology Jalandhar, India Paper Title: Exploring New Frontiers in Structural Research with SCC



Professor S A Reddi

Value Engineering Consultant, Bangalore, India Paper Title: Sustainable Concrete for 35 Storey Karle Zenith Towers in Bangalore



Closing Paper

Professor Harald Justnes

Chief Scientist, SINTEF Building and Infrastructure, Trontheim, Norway

Paper Title: Chemical Admixtures: The Way Forward



Conference 1: High Performance Concrete Using Admixtures

Self - Curing Concrete, Myth or Fact?

Bruno D'Souza (China)

High Performance Superplasticisers for Modern Concrete

Shivram B Bagade, Bruno D'Souza (China)

Behaviour of Hybrid Fibre Reinforced High Performance Concrete under Direct

M V Sabeena, N Ganesan, P V Indira (India)

Polycarboxylate based Superplasticiser for Applications in Self Compacting High Performance Concrete

Supradip Das (India)

Workability of Fibre Reinforced Self-Compacting Concrete

Ankit Gupta (India)

Workability of Self-Compacting Concrete Containing Rice Husk Ash S P Singh, Sarvesh Kumar, Dilraj Singh, Rizwan Khan (India)

Green-Super-Plasticizers for Construction Applications by using Biopolymer Nagesh R Iyer, B Bhuvaneshwari (India)

Investigation on the Strength and Permeability of Concrete Reinforced with Hybrid Steel Fibres

S P Singh, Sarvesh Kumar, Amritpal Singh, Daman Kumar (India)

Sustainable High Performance Concrete for Bridges

Tejinderpal Singh (India)

Strength and Toughness of Steel Fiber Reinforced Self-Compacting Concrete P Singla, P Jain, S Sethi, P Bansal, S Jain, A Ohri (India)

Influence of Corrosion on Bond Strength of Ternary Blended Concrete P Murthi, K Poongodi (India)

Flexural Fatigue Performance of Steel Fibre Reinforced Self Compacting

S Goel, S P Singh (India)

Studies on the High Early Strength Properties of Concrete Containing Flyash, Accelerator and Metallic Fibres

A Sivakumar, V M Soundararajan, A Tayal, I V Singh, S Chauhan, (India)

Strength and Flexural Toughness of Self Compacting Fibre Reinforced Concrete Sumit Arora, S P Singh, Sanjay Goel, Amardeep Singh (India)

Hardened Properties of Self-Compacting Concrete Containing Fly Ash, Silica Fume and Lime Powder

Dilraj Singh, Rizwan Khan, S P Singh, (India)

Concrete Mix Design IS:10262 - 2009 Vs IS:10262 -1982 Dhirendra Singhal, Sanjiv Aggarwal, Jaspreet Singh Brar (India)

Study of Self-Compacting Concrete using Waste Foundry Sand and High Volume Fly Ash

Neelam Pathak, Rafat Siddique (India)

Behavior of High Performance Concrete under Repeated Compressive Loading R B Khadiranaikar, Santosh Murnal (India)

Strength and Shrinkage Properties of Self-Compacting Concrete Containing Lime Stone Quarry Fines

Rajesh Kumar, S K Madan, N P Devgan, Roshan Lal (India)

A Study on Fresh, Hardened and Durability Properties of Self Compacting Concrete Containing Fly Ash and Metakaolin

A Nehra, R A Khan, S Singhal, A Malik, K Choden (India)

Workability Retention of Triple Blend Self Compacting Concrete Bharathi Ganesh, Dr Hsharada Bai, V R Kawshika (India)

Study of Pozzolanic Binders Effects on SCC Durability in Sulfate Environment Kiachehr Behfarnia, Omid Farshadfar (Iran)

Influence of Cement Type and Water-Cement Ratio on Open Porosity and Gas Permeability of Cement Pastes

Tomasz Tracz, Jacek Sliwinski (Poland)

The Impact of Steel Fibres Length and Content on Properties of RPC Cured in Different Hydrothermal Conditions

Tomasz Zdeb, Jacek Sliwinski (Poland)

Special Self-Compacting Concretes

Darius Stanciu, José Barosso Aguiar, Nicolae Angelescu (Romania)

Effectiveness of HPC Mix Composition in Suppressing ASR Expansion Galal Fares, M Iqbal Khan (Saudi-Arabia)

The Use of Foamed Concrete for Housing

E P Kearsley, H F Mostert (South Africa)

Ultra High Performance Self Compacting Concrete using Pozzolanic Materials Yogesh D Barot, Rahul Mathur, Moushumee Bhuyan (India)

Durability of High Strength Self Consolidating Concrete using High Volume of Supplementary Cementitious Materials

Ahmed Ibrahim, Hassan El-Chabib (USA)

Study of the Behaviour of Pervious Concrete in Extreme Conditions

G Vardaka, A Vlysidis, C Leptokaridis, S Tsimas (Greece)

Influence of Mineral and Chemical Admixtures on the Packing Density of High Strenath HPC

Jeenu G, Vinod P, Lalu Mangal (India)

Strength and Corrosion Properties of Concrete incorporating Metakaolin and Red mud

R Rathan Raj, E B Perumal Pillai, A R Santhakumar (India)

Shrinkage in Concretes Containing Fly-Ash

Souptik Sarkar, Aritra Halder, Shashank Bishnoi (India)

Damage Assessment and Rehabilitation of Lower Liard Reinforced Concrete

Alex Taheri (Canada)

Ultra High Performance Fiber Reinforced Concrete - Mixture Design and Testing Petr Konvalinka, Petr Maca, Radoslav Sovják (Czech Republic)

Effect of Sawdust Ash and Metakaolin on the Fresh and Hardened Properties of Self Compacting Concrete

Rizwan Khan, Sumit Mahajan (India)

Properties of Self Compacting Concrete Incorporating Rice Husk Ash and

S P Singh, Sarvesh Kumar, Dilraj Singh, Rizwan Khan (India)

Characterization of Biosealent Properties of Bacillus Subtilus in Concrete Srinivasa Reddy Vempada, Seshagiri Rao M V, Sasikala C H (India)

Correlating Workability of Superplasticised Paste, Mortar and Concrete? Present Scenario

Parth Thaker, Narendera Arora (India)

Characteristic Properties of Fibre Reinforced Concrete Reinforced with Polyester Fibre Recron 3s and its Comparison with Plain Concrete

Manik Jain, Piyush Bharti Arora, Roshan Lal (India)

Effect of Chloride Attack on the Properties of SFRC Containing Glass Powder as Pozzolana

B R Patagundi, K B Prakash (India)

Strength Characteristics of Self-Compacting Concrete

Keenu Nayyar, Jagbir Singh, Manjeet Bansal (India)

Development of Self Compacting Concrete: A Literature Review

Rahul Dubey, Pardeep Kumar (India)

Mix Proportioning of Self Compacting Concrete - An Experimental Study Rajesh Kumar, S K Madan, N P Devgan (India)

Laboratory Investigation of High Performance Concrete for Highway Pavements Sanjay Srivastava, S S Jain, M P S Chauhan (India)

Experimental Study of Factors Influencing Test Results During the Testing of

Premkishan Patel, S N Desai (India)

Influence of Curing Requirement of High-Performance Concrete in the Hot Environment of Riyadh

M Iqbal Khan (Saudi-Arabia)

HPC: How it Performs Under Internal Sulfate Attack and Asr Expansion? Galal Fares, M Iqbal Khan (Saudi-Arabia)

Use of Ternary Cementitious Blends - Relative Performance Gains in Concrete A N Vyasa Rao, C M Dordi, Ravindra Gettu, Manu Santhanam (India)

A Study on Effect of Carbonation on the Properties of Concrete

Dipendu Bhunia, S B Singh (India)

Behaviour of Glass Fiber Reinforced Self Compacting Concrete

Saniav Kumar, M M Prasad (India)

High Performance Abrasion Resistant Concrete at Spillway Vinod Kumar Mauriya, Teofilo Gamayo Jr (India)

Conference 2 Wednesday 6 March 2013

Precast Concrete and Construction

Dedicated to Professor Arnold Van Acker Former Chairman, fib Commission on Prefabrication, Belgium

Themes

- **Production Processes and Innovations**
- **Developments in Precast Construction**
- Sustainable Design
- Structural Frames
- Architectural Cladding
- Normal/Light Weight Building Blocks
- Concrete Floor Beams/Hollow Core Slabs
- Concrete Pipeline Systems

- Foundation Systems
- Concrete Railway Systems
- Applications in Bridge Construction
- Concrete Tilt up Construction
- Concrete Tunnel Segments
- Codal Provisions and Design Aspects
- Safe Erection/Others

Scientific and Technical Advisory Committee

- Prof Hakim Abdelgader, Tripoli University, Libya
- Prof Nemy Banthia, The University of British Columbia, Canada
- Mr Martin A Clarke, Chief Executive, British Precast Concrete Federation, UK
- Prof Luiz Carlos Silva Filho, Federal University of Rio Grande do Sul. Brazil
- Prof Raymond Ian Gilbert, The University of New South Wales,
- Dr Holger Kartuz, Editor-in-Chief, CPI Concrete Plant International, Germany
- Prof Ali Kaveh, Iran University of Science and Technology, Iran
- Prof M Iqbal Khan, King Saud University, Saudi Arabia

- Prof Peter Konvalinka, Czech Technical University in Prague, Czech Republic
- Prof Zongjin Li, Hong Kong University of Science and Technology, Hong Kong
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- Mr Chris Stanley, Technical Director, Unibeton, Abu Dhabi, UAE
- Architect Janne Terasvirta. ALA Architect. Finland
- Prof Jianjun Zheng, Zhejiang University of Technology, China

Opening Paper

Professor Arnold Van Acker

Former Chairman, fib Commission on Prefabrication, Belgium

Paper Title: Precast Concrete: A not to be Missed Construction Technology for 21st Century



Keynote Papers



Patrick DeClerck

Dr Bernd Wolschner

Wolschner AG, Austria

Board Member, Umwelttechnik Stoiser &

Paper Title: Principles of Efficient Factory

Management in the Concrete Precast Industry

President, Bureau International du Beton Manufacture and MD of DECOMO, Belgium

Paper Title: Architectural Precast Concrete in Europe: A High Quality Construction Material for the Future



Germany

Quality, Safety and Efficiency

Stephen Carr

Managing Director, Spiroll Precast Services Ltd, UK

Paper Title: Prestressing: Training the Workforce in

Dr Holger Kartuz Editor in Chief, CPI Concrete Plant International,

Paper Title: Quality Control Systems for Precast Plants



Closing Paper

Martin A Clarke

Chief Executive, British Precast Concrete Federation, UK

Paper Title: Much More than the Concrete



Conference 2: Precast Concrete and Construction

Seismic Vulnerability Index for Concrete Pipes

Bensaibi Mahmoud, Halfaya Fatma Zohra, Davenne Luc (Algeria)

Exploiting Potential of BIM for Precast Construction

Hardeep Rai, Raninder Dhillon (India)

Impact Strength of Thin Cementitious Slabs Reinforced with Non-Corrosive Bar Chip Olefin Fibers

P B Sakthivel, A Jagannathan (India)

Insitu Concreting of Spillway Girder & Box Bridge

Vinod Kumar Mauriya, Praveen Kumar Yadav, Vinod Kumar Angra (India)

Determination of Flexural Behaviour of Ferrocement Slabs

N Kannan, A Jagannathan (India)

Effect of Steam Curing on Sorptivity, Water Penetration and Electrical Resistivity of Concrete

Masoud Siminpour, Mohsen Tadayon, Hormoz Family (Iran)

The Effect of Density on Mechanical Properties of Freshly Compressed Concrete Mehdi Nematzadeh, Morteza Naghipour, Javad Jalali, Abolghasem Salari (Iran)

Geopolymer Concrete Blocks/Pavers for Precast Applications

Ambily P S, B H Bharatkumar, Nagesh R Iyer (India)

Precast Lightweight Large Panel Wall and Roof Elements for Seismic Resistant Buildings

J Annie Peter, J Prabhakar, Nagesh R Iyer (India)

Hollowcore Manufacturing and Factory Design

Stephen Carr (UK)

Behaviour of Prefabricated Constructions under Lateral Loads

S K Bhattacharyya, A Chourasia (India)

Structural and Architectural Façade Construction using Precast Concrete Technology

Nagaraja M Thontalapura (India)

Utilising Waste Toner as a Pigment for Sustainable Precast Concrete Elements Moray Newlands, L J Csetenyi, K Moock (UK)

Wholly Precast JJ Flyover in Mumbai with 75 MPa High Performance Concrete S A Reddi (India)

Cost-Efficient Production of Precast Elements: An Expert Insight into Production Methods, Plant Technology and Building Expertise

Steffen Schmitt, Debashish Roy (UK)

Precast Concrete Technology: Design Aspects and Implementation in India

Prakash Shah, Deepak Singhavi, Sanjeev Pillai (India)

Prospective Housing Technologies for Mass Housing in India Shailesh Agrawal, J K Prasad, S K Gupta, Dalip Kumar (India)

Conference 3: Low Carbon Cements and Concrete in Modern Construction - Remaining Papers

Optimum Design of Reinforced Concrete Structures for Low Embodied Carbon Mohamed Saafi, David Wani (UK)

Development of a Performance-Based Specification for Sustainable use of PFA in Engineering Fill Applications

Jiping Bai, Ivan Skidmore (UK)

Behavior of Palm Oil Fuel Ash and Metakaolin Based Geopolymer Mortar Mohammad Bin Ismail. Taliat Ola Yusuf (Malavsia)

Durability of Alkali Activated Fly-Ash Based Geopolymer Concrete under Laboratory and In-situ Aggressive Environment Exposure Conditions Natalie Lloyd, B V Rangan, Didar Cheema (Australia) Effect of Chemical Composition of Fly-Ashes on the Strength of Concrete Shashank Bishnoi, Amarpreet Kaur (India)

Fly ash: A Renewable Resource for Cement Concrete Sunil Kumar Chaudhary (India)

A Systematic Approach to Geopolymer Concrete

Sunil Kumar Chaudhary (India)

Flexural Strength of Polypropylene Fibre Reinforced Concrete with Cement Additions

Raghubir Singh, S P Singh (India)

A Study on Barriers against Commercialization of Geopolymer Binders A N Dehghan, M W Hussin, N Falahati (Malaysia)

Conference 3 Thursday 7 March 2013

Low Carbon Cements and Concrete in Modern Construction

Dedicated to John Harrison Managing Director and Chairman, TecEco P. Ltd, Australia

Themes

- · Progress in Carbon Foot Print Reduction in Concrete Construction
- Challenges for Developing Countries
- Appropriate Use of Waste Materials
- **Engineering and Durability Performance**
- Sulphoaluminates

- Magnesium Oxide/Silicate Based
- Geopolymers
- Production/Process Changes
- Mineralised Portland Clinkers
- Zeolite Cements

- Portland Clinker/Fly Ash Cements
- Portland Clinker/Slag Cements
- Low Carbon Concrete and Construction
- Modeling Cement Composites for Strength and Durability
- Other Cements

Scientific and Technical Advisory Committee

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- Prof Adolf Bajza, Slovak University of Technology, Slovak Republic Prof M Iqbal Khan, King Saud University, Saudi Arabia
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- Prof Jorge De Brito, Instituto superior Tecnico, Portugal
- Dr Pal Chana, Executive, Mineral Products Association, UK
- Dr A K Chatterjee, Managing Director, Conmat Technologies Pvt Ltd, India
- Dr Per Fidjestol, Technical Director, Elkem ASA Materials, Norway
- Dr Sujit Ghosh, Chief Executive Officer, Holcim, Singapore
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- Prof Mohammad Ismail, Universiti Teknologi Malaysia, Malaysia
- Prof Harald Justnes, Chief Scientist, SINTEF Building and Infrastructure, Norway
- Mr Willie Kay, Managing Director, WAK Technologies, Singapore

- Prof Elsabe Kearsley, University of Pretoria, South Africa
- Prof Tarun R Naik, University of Wisconsin-Milwaukee, USA
- Prof K C Gary Ong, National University Singapore, Singapore
- Mr Bryan Perrie, Managing Director, Cement and Concrete Institute, South Africa
- Prof Chi Sun Poon, The Hong Kong Polytechnic University, Hong Kong
- Prof Koji Sakai, Kagawa University, Japan
- Prof Luping Tang, Chalmers University of Technology, Sweden
- Prof Josef Tritthart, University of Technology, Graz, Austria
- Prof Enric Vazquez, Universitat Politecnica Catalunya (UPC),
- Prof Chung-Chia Yang, National Taiwan Ocean University, Taiwan

Opening Paper

John Harrison

Managing Director and Chairman, TecEco P. Ltd, Australia

Paper Title: Future Concretes in Perspective and Ramifications of Adding Reactive Magnesia to Hydraulic Cement Compositions



Keynote Papers



Dr Kevin Paine

Dr Socrates Ioannou, Dr Kofi Abora and Dr Keith Quillin, Centre for Innovative Construction materials, University of Bath, UK

Paper Title: Low Carbon Concrete: Research with Non-Portland Cements



Professor M R Jones

University of Dundee Scotland Paper Title: Balancing the Performance and Embodied CO2 Demands of Concrete

Christopher Stanley

Technical Director, Unibeton Readymix, Abu Dhabi, UAE

Paper Title: Innovations in Green Optimized Concrete

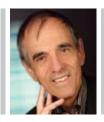


Closing Paper

Professor J Tritthart

Mr L Neunteufel and Dr J Juhart, University of Technology, Graz, Austria

Paper Title: Low Carbon Cements and Concrete: An Overview and a Practical Approach



Conference 3: Low Carbon Cements and Concrete in Modern Construction

Influence of Mineral Addition on Performances of Concrete Benchiheub Djihen, Amouri Chahinez, Houari Hacène (Algeria)

Appropriate Management of High Calcium Fly Ashes towards Maximizing their use in Cement and Concrete

Stamatis Tsimas (Greece)

Synergistic Behavior of Power Station and Steel Industry By-Products during Sintering

A Moutsatsou, G Charalampides, E Katsika, V Karayannis (Greece)

Experimental Study of Porous Concrete for Sustainable Development Sarvesh Kumar, Dilraj Singh, Jaspal Singh, Deepinder Singh Aulakh (India)

Development of Sustainable Concrete made with Recycled Concrete Aggregates and Fly Ash

Pinal Saini (India)

Influence of Microbial Treatment on Alkalinity of Cement Kiln Dust Kunal Garq, Rafat Siddique, Anita Rajor (India)

Abstract-Investigation into the Utilization of Fine Aggregate Waste Pebbles in Green (Pervious) Concrete - A Sustainable Solution for Conserving Water MohammNadeeed m (India)

Flexural Toughness of Hybrid Steel Fibrous Concrete using Post-Crack Strength Method

S P Singh, Sarvesh Kumar, Amrit Pal Singh, Daman Kumar (India)

Utilisation and Characterisation of Scrap Tyre Rubber in Concrete

Navneet Sharma, Saleem Akhtar, Mansi Mishra (India)

Integrated Dynamic Method of Concrete Mix Design

P M Deshpande (India)

Effect of Crushed Lime Stone Dust on Bond Strength of Concrete Rakesh Kumar, L K Mishra, Vijay Karan Verma (India)

Characterization of Sugarcane Bagasse Ash as Supplementary Cementitious Material in Concrete

A Bahurudeen, Manu Santhanam (India)

An Appropriate Use of Thermal Power Plant Waste - Pond Ash as Fine Aggregate in Concrete

Ganesh Bharathi, H Sharada Bai, R Nagendra (India)

High Performance Concrete in Modern Constructions by using Low Carbon Cement - With Reference to Portland Slag Cement

Sairamesh Mallikarjunan, Shreesh Anant Khadilkar, Hemant Sahu (India)

Influence of Fly Ash and Rice Husk Ash on Properties of Concrete K C Panda, S Sahoo (India)

Sustainable Concrete from Waste Dairy Products for a Seismic Design of Structures

K S Satyanarayanan, Kaisar Khursheed, J S Arvind (India)

Studies on Geopolymer Concrete with Flyash and GGBS under Different Curing

M S Sudarshan, K Harish, R V Ranganath (India)

Effect of Wollastonite-Fly Ash Combination on Strength, Permeability and Carbonation of Concrete Mixes

Pawan Kalla, Anurag Misra, L J Csetenyi, R C Gupta (India)

Strength Prediction Models for Fly Ash Concrete

Samaresh Pan, Santanu Bhanja (India)

Effect of Grading of Fine Aggregates on Flow and Compressive Strength of Geopolymer Concrete

Subhash V Patankar, Sanjay S Jamkar, Yuvraj M Ghugal (India)

Durability Studies of Geopolymer Concrete against Acid & Sulfate Attack Prakash R Vora, Urmil V Dave (India)

Fresh and Hardened Properties of Controlled Low Strength Material Darragh O'rourke, Jingran Gao, Roger P West (Ireland)

The Use of a Greyness Index Chart as an Indicator of Surface Albedo of Concrete

Angharad Sweeney, Roger P West (Ireland)

Concrete Mix Proportioning using Three Equations Method (Laboratory Study)
Hakim S Abdelgader, Ali S El-Baden, A H Fahema, Nicolae Angelescu (Libya)

Durability of Hydraulic Lime Concrete with Metakaolin

Paulo Cachim, Ana Velosa (Portugal)

Using Fine Recycled Aggregates from Construction and Demolition Waste in

Concrete Production: A State-of-The-Art Review

Jorge De Brito, Luís Evangelista (Portugal)

Experimental Study on Chloride Migration Coefficients of SCC with Binary and

Ternary Mixtures of Fly Ash and Limestone Filler

Pedro Silva, Jorge De Brito (Portugal)

Using South African Fly Ashes as a Component of Alkali-Activated Binders

Julia Shekhovtsova, Elsabe P Kearsley (South Africa)

Producing Alkali-Activated Slag Concrete in South Africa

Maxim Kovtun, Elsabe P Kearsley, Julia Shekhovtsova (South Africa)

Low Carbon Concrete: Research with Non-Portland Cements Kevin Paine, Socrates Loannou, Kofi Abora, Keith Quillin (UK)

Pervious Concrete - A Concrete Step towards Greener Earth – An Indian Perspective

Yogesh D Barot (India)

Polymer Effect on the Rheological Properties of the PPC Blends

I Ion, J B Aguiar, N Angelescu, H S Abdelgader (Romania)

An Investigation into the Viability and Benefits of Modern Hydraulic Lime Concretes

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Low Carbon Cements and Concrete: An Overview and a Practical Approach J Tritthart, L Neunteufel, J Juhart (Austria)

Plastic Waste as Aggregates in Light Weight Concrete: The Effect of Simulated Hydration Process on their Properties

S Gavela, E Babou, P A Tarantilli, V Kasselouri - Rigopoulou (Greece)

Behavior of Fly Ash Based Geopolymer Concrete Exposed to Acid, Saline Water & Sodium Silicate

Vikrant Vairagade, Aniket K Chafle, Kavita S Kene (India)

Strength of Flyash Based Geopolymer Concrete under Oven Dry Condition

Vikrant Vairagade, Aniket K Chafle, Kavita S Kene (India)

Low Cost Green Buildings - Use of Recycled Aggregates

S P Singh, Dilraj Singh (India)

Low Carbon Concrete using GGBS

Ashok Kumar Tiwari, Abhishek Bhattacharya (India)

Light Weight High Performance Bricks Incorporating Fly Ash Dilraj Singh, Harkamaljeet Singh Gill, Vikramjit Singh (India)

Comparative Study of Treated Recycled Aggregate Concrete Mixtures

Kaushal Sharma, Nikhil Choughule, Harshal Rastogi, Karan Raj (India)

Preparation of Soy Protein Based Green Composites

B S Kaith, Jaspreet Kaur Bhatia, R Jindal, R Sehgal (India)

Strength and Permeability of Steel Fibre Reinforced Fly Ash Concrete

A P Singh, Navdeep Singh (India)

Strength Characteristics of Steel Fibre Reinforced Concrete using Stone Dust as

Partial Replacement for Fine Aggregates

Pawan Thakur, A P Singh, S P Singh (India)

Geopolymer Precast Concrete

Gurpreet Singh, Tom Dyer (India)

Optimization of Mix Proportions for Polymer Concrete using Design of

Experiments

Raman Bedi, S P Singh (India)

Performance Evaluation of Binder Type in Aggressive Chloride Environment

Sonjoy Deb, Bulu Pradhan (India)

Sustainable Development of Concrete using Waste Materials

Rishav Garg, Yogesh Aggarwal, Manjeet Bansal (India)

Effect of Corrosion Inhibitors on the Critical Chloride Threshold of Thermo-

Mechanically Treated (TMT) Steel

Vibha Venkataramu, Radhakrishna G Pillai (India)

Corrosion Rates of Mild Steel and Cold-Twisted Deformed Reinforcing Bars

Embedded in Cement Mortar

P K Firodiya, A K Sengupta, R G Pillai, D Menon (India)

An Experimental Study of Plain and Reinforced Concrete with Partial

Replacement of Stone Dust under Compression and Flexure

Rehan A Khan, M S Jafri (India)

Conference 4 Thursday 7 March 2013

Designing Reinforced Concrete for Sustainability

Dedicated to C R Alimchandani Chairman and Managing Director, STUP Consultants P. Ltd, India

Themes

- Design and Analysis of Structural Systems
- Reinforced Cementitious Composites
- Computational Structural Mechanics
- Structural Health Monitoring and Retrofitting
- Life Cycle Analysis
- Safety and Reliability

- Service Life and Sustainable Design Methods
- Structural Optimization
- Minimising Design Cost
- Construction and Environment Issues
- Reinforcing Materials and their Appropriate
- Efficient and Appropriate Use of Virgin/Recycled Materials
- Role of Ready Mixed concrete
- Challenges for Developing Countries
- Others

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- Prof Chung-Chia Yang, National Taiwan Ocean University, Taiwan

Opening Paper

C R Alimchandani

Chairman and Managing Director, STUP Consultants P. Ltd, India

Paper Title: Five Decades of Innovations for Creating Sustainable Concrete Structures



Keynote Papers



Professor Pierre-Claude Aitcin

University of Sherbrooke and Professor Sidney Mindess, University of British Columbia, Canada Paper Title: Improving the Sustainability of Concrete Structures



Professor Roger P West

Trinity College Dublin, Ireland Paper Title: Are Fibres in FRC Everything they are

Cracked up to be?

Professor Jorge de Brito

Instituto Superior Tecnico/ICIST Technical University of Lisbon and Professor Luis Evangelista, Instituto Superior de Engenharia de Lisboa, Portugal Paper Title: Using Fine Recycled Aggregates from Construction and Demolition Waste in Concrete Production: A State of the Art Review



Dr Mette Glavind

Mr Claus Pade, Dr Lars Nyholm Thrane and Ms Dorthe Mathiesen, Danish Technological Institute, Denmark Paper Title: Concrete for Sustainable Infrastructure Construction



Closing Paper

Professor Gyorgy L Balazs

Budapest University of Technology and Economics, Hungary

Paper Title: Codes for Future Concrete Structures - fib Perspective



Conference 4: Designing Reinforced Concrete for Sustainability

Improving the Sustainability of Concrete Structures Pierre-Claude Aïtcin, Sidney Mindess (Canada)

Concrete for Sustainable Infrastructure Constructions

Mette Glavind, Claus Pade, Lars Nyholm Thrane, Dorthe Mathiesen (Denmark)

Protection of Reinforcement in Concrete Using Corrosion Inhibitors Angeliki Zacharopoulou, Evgenia Zacharopoulou, G Batis (Greece)

Reinforced Concrete Corrosion Control with the Usage of Nano Coatings:

Comparison with Traditional and High Performance Application Systems

Theodosia Zafeiropoulou, Eleni Rakanta, George Batis (Greece)

Investigation on Behavior of Concrete by Partial Replacement of Cement with Rice Husk Ash and Fly Ash Using Steel Fibers

Satish H Sathwane, Kavita S Kene, Vikrant Vairagade (India)

Comparative Study on Polypropylene Fiber Reinforced Concrete cum Control Concrete

Vikrant Vairagade, Kavita S Kene, Rakesh Patel (India)

Experimental Study on Steel Fibre Reinforced Concrete with Various Aspect Ratios

Vikrant Vairagade, Kavita S Kene (India)

Design of Functionally Graded Flexural Member with Fly-Ash

Ketan Bajaj, Yash Shrivastava (India)

Shear Strengthening of Pre-cracked RC Beams Using Carbon Fibre Reinforced Polymer Strips

K Swaminathan, Goudappa Biradar, Sandeep Uppar (India)

Framework for Repair Prioritization in Deteriorating Reinforced Concrete (RC) Structures

Bishwajit Bhattacharjee, Kamal Kant Jain (India)

Applications of ANN in Structural Health Monitoring - A State of the Art Review Saha Dauji, Kapilesh Bhargava (India)

Acceptance Criteria for the Concrete Compressive Strength

K Balaji Rao, M Anoop, Nagesh R Iyer (India)

Designing Sustainable Concrete with Service Life of 100 Years

Manish Mokal (India)

Finite Element Modelling of Moisture Distribution in Concrete Subjected to Wetting-Drying Exposure

Bishwajit Bhattacharjee, Kaustav Sarkar (India)

Optimisation of Piled-Raft Foundation

Harvinder Singh, Prashant Garg, Jagdanand Jha (India)

Water Quality Assessment of Selected Towns for Construction Work Shailendra Kumar Patidar (India)

Evaluation of Bond Behaviour of Externally Bonded FRP

Ramesh G, Ravindra Gettu, B H Bharatkumar (India)

Analytical Analysis of Reinforced Beam Column Joints on ANSYS

Roshan Lal, Manpreet Kaur (India)

Investigating the Use of Bamboo and Polypropylene as a Substitute for the External Steel Reinforcement

Manik Jain, Piyush Bharti Arora, Roshan Lal (India)

Performance of High Volume Fly Ash in Concrete: A Comparative Study Ashish Gupta, Anjani Kumar Nigam, Amitabh Kumar Shrivastava, Satya Prakash Dubey, Purna Kumar Rastogi, Dilip Kumar (India)

High Strength Green Concrete

Priyam Gupta, Ashish Gupta, Anjani Kumar Nigam, Amitabh Kumar Shrivastava, M K Sharma, Prianshu Shukla, Abhai Kumar Verma (India)

Experimental Investigation of GFRP Strengthened RC Beams under Pure Torsion Paresh Patel, Vishnu Jariwala, Sharad K Purohit (India)

Crucial Sustainability Issues in Respect of Design of Concrete Bridges Alok Bhowmick (India)

Effects of Fibre Geometry and Volume Fraction on the Flexural Behaviour of Steel-Fibre Reinforced Concrete

Kranti Jain, Bhupinder Singh (India)

Sustainable Methods to Achieve 120 Year Service Life for Underground Metro Structures

M Ramanathan, J Kalyan Kumar (India)

Behaviour of Reinforced DFRCC Structural Elements under Flexural Loading Madappa V R Sivasubramanian, Tryphena Edward, Priyadarshini Cheyyar Nageswaran (India)

Cost Reduction in RCC by Appropriate Combination of Steel and Concrete Grades

N K Khullar, Jaspal Singh, Satinder Kaur, Manpreet Kaur (India)

FRP–Strengthened Reinforced Concrete Beams: A Brief Overview on Shear Strength Models

K C Panda, S K Bhattacharyya, S V Barai (India)

Effect of Corrosion on Loss of Composite Action between Steel and Concrete Akshatha Shetty, Katta Venkataramana, KS Babu Narayan, Indrani Gogoi (India)

Strength and Permeability of Fly Ash Based Concrete Reinforced with Steel Fibres

Anup Thakur, Sarvesh Kumar, A P Singh (India)

Retrofitting and Life Extension of Structures-A Review

Harpreet Gaba, Hardeep Singh Rai, S P Singh, Harvinder Singh (India)

Performance of Sustainable Concrete Using Recycled Aggregate

K C Panda, T Jena, S Das (India)

Performance of Concrete Mixes Using Recycled Aggregates— A Study Based on Taguchi's DOE Method

Dilip Kumar, M V Ranjani, M Santhosh kumar, Mattur C Narasimhan (India)

The Behaviour of the Slab Component of Composite Steel and Reinforced Concrete Joint

Seema, Nadia Baldassino, Riccardo Zandonini (India)

Flexural Strengthening of ECC Beams Using Near Surface Mounted (NSM) Hybrid FRP Bars

Shamsher B Singh, Madhurima Bhattacharya, Nikhil Shrivastava, Anubhav Suri, Ayush Gupta (India)

Crushing of Concrete in Normal and High Strength Beams under Torsion Khaldoun N Rahal (Kuwait)

Design Optimization of Reinforced Concrete Beams Using Artificial Neural Network

Fathelrahman Mohamed Adam, Sara Ali Babiker, Abdelrahman Elzubier Mohamed (Sudan)

Glass Fibre Reinforced Concrete GRC – A Sustainable Material for the 21st Century

lan White (UK)

Sustainable Concrete Technology throughout Entire Life Cycle

Dubravka Bjegovic, Nina Stirmer, Serdar Marijana, Marija Jelcic Rukavina, Ana Baricevic (Croatia)

Artificial Neural Network for Concrete Mix Design

M Monjur Hasan, Ahsanul Kabir (Bangladesh)

Effect of Cylinder Size on Concrete Strength using Brick Chips as Coarse Aggregate

Ahsanul Kabir, Md Khasro Miah (Bangladesh)

A Seismic Reliability Assessment of Reinforced Concrete Integral Bridges Subject to Corrosion

Mairead Ni Choine, Jamie Padgett, Alan O'Connor (Ireland)

Integrated Global Vibration and Low Cost EMI Technique for Structural Health Monitoring of RC Structures using Embedded PZT Patches

Naveet Kaur, Neshan Jain, Nikit Gupta, Suresh Bhalla (India)

Engineering Characterization of Bamboo as a Sustainable Alternative to Concrete

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Review of Non-Destructive Evaluation of Concrete Structures Using Electro Mechanical-Impedance Technique

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Experimental Study to Detect Corrosion in RC Structures Using Piezo-Ceramic Sensors

T Visalakshi, Suresh Bhalla (India)

Sustainable Production of Artificial Aggregates

Raffaele Cioffi, Francesco Colangelo (Italy)

Bamboo Beam Elements for Structural Applications

Diwakar Bhagat, Akshi Maheshwari, Suresh Bhalla (India)

Composite Bamboo Column for Modern Bamboo Structures

Diwakar Bhagat, Suresh Bhalla (India)

Reinforced Concrete Brick Filled Composite Beams for Sustainability

Rakesh Patel, S K Dubey, K K Pathak (India)

Durability of the Recycled Aggregates Coming from the Concrete of Demolition Fazia Boudjemia (Algeria)

Numerical Characterization of Damage in Brittle Materials: Local Approach S Khelifi, N E Hannachi (Algeria)

Performance Evaluation of Use of Bio- Material as Coarse Aggregate and Reinforcement in Concrete Column

H M A Mahzuz, Mushtaq Ahmed (Bangladesh)

Use of Generalized Bcn Test to Characterize Fiber Reinforced Concrete Properties

Sergio Carmona, Antonio Aguado, Climent Molins (Chile)

Numerical Investigation of Headed Studs with Different Head Size

Jindrich Fornusek, Petr Konvalinka (Czech Republic)

Study of Corrosion Rate in Carbonated Concrete

Bishwajit Bhattacharjee, Jitu Kujur (India)

Impact of Construction Material on Environment,

Hardeep Rai, Puneet Pal Singh Cheema (India)

Shear Strength Characteristic of Longitudinally Reinforced Self Compacting Concrete Beams

S P Singh, Kanwarjeet Bedi, Rajesh Kumar (India)

Time-Variant Structural Reliability of a Typical Post-Tensioned Bridge: A Case Study

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Optimization of Concrete Mix Proportioning using Full Factorial Technique Mohd Shariq, Jagdish Prasad, Ashok Kumar Ahuja (India)

Minimum Cost Design of a Reinforced Concrete Frame

Hardeep Rai, Jagbir Singh, Sonia Chutani (India)

Concrete for Sustainability and Green Building Considerations

Bhargava Kapilesh, Ranjan Kumar, K Srinivas, S S Shivhare (India)

Concrete Construction and Their Sustainability in Environment Rinku Parashar (India)

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Behaviour of Reinforced DFRCC Structural Elements under Flexural Loading Shamsher B Singh, Madappa VR Sivasubramanian, Tryphena Edward, Priyadarshini Cheyyar Nageswaran (India)

Compressive and Split Tensile Strengths of Steel Fibre Reinforced Concrete – Influence of Fibre Parameters

A P Singh, Dhriendra Singhal (India)

Permeability and Strength Characteristics of Steel Fibre Reinforced Concrete – Influence of Fibre Parameters

M P Singh, A P Singh, S P Singh (India)

High Volume Crushed Rock Powder (HVCRP) Concrete for Sustainable Construction

Nagabhushana, H Sharada Bai (India)

Effect of Different Wrapping Techniques on Retrofitting of RCC Beam Column Joints using Ferrocement

Prem Pal Bansal, Maneek Kumar, Manzoor Ahmad Dar (India)

FRP (Fiber Reinforced Polymer): A Replacement to Steel

Gundeep Bansal, Yogesh Aggarwal, Manjeet Bansal, Paratibha Aggarwal (India)

Towards Sustainable Solutions of Structural Landfill Design using Cements Gurdeepak Singh, Harvinder Singh, B S Walia (India)

Damage Localization of an Old Damaged Steel Truss Bridge through Modal Parameters Changes

Suresh Kumar Walia, Hemant Kumar Vinayak, Ashok Kumar, Raman Parti (India)

Behaviour of Partially Damaged Concrete Beams Strengthened by GFRP Wrapping

Poulose Maitina, M L Preethi, K A Aboobacker, Thomas Job (India)

Bond Strength Evaluation of Recycled Aggregate Concrete using a Pullout Test Bhupinder Singh, M John Robert Prince (India)

A Study on Flexural Strength of Thin Cementitious Composites Reinforced with Steel Fibers

P B Sakthivel, R S Bharath, A Jagannatha (India)

Strength Properties of Cementitious Matrix Reinforced with Stainless Steel Fibers P B Sakthivel, Ratna Sabapathy, A Jagannatha (India)

Strengthening and Rehabilitation of Reinforced Concrete Structures: A Literature Review

Rahul Dubey, Pardeep Kumar (India)

Strut and Tie Model for the Prediction of Strength of Concrete Deep Beams Reinforced with Hybrid Bars (Steel and GFRP)

S Ramadass, Job Thomas (India)

Influence of Moisture State of Natural and Recycled Concrete Aggregates on Mechanical Properties of Concrete

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An Investigation on the Performance of PET Reinforced Concrete Hasan Taherkhani, Jamal Ahmadi, Kianoosh Rahmai (Iran)

An Investigation on the Effect of Waste Crumb Tire on the Properties of Concrete

An investigation on the Effect of Waste Crumb Tire on the Properties of Concret Hasan Taherkhani (Iran)

Evaluation of Recycled Concrete Aggregate for its use in Structural Concrete Koh Siew Kiang, Lye Qao Chun (Singapore)

Improving the Sustainability of Concrete Construction

Koh Siew Kiang, Lye Qao Chun (Singapore)

Advanced Sensing Technologies for Resilient Civil Infrastructure Systems:

Damage and Durability Monitoring of Concrete Structures

Mohamed Saafi (UK)

Health Monitoring of Retrofitted RC Beams using Vibration Measurements Naveen Kwatra, Shruti Sharma (India)

Inverse Approaches in Modelling Residual Behaviour of SFRC

G Kaklauskas, A Meskenas, V Gribniak, D Bacinskas, V Gelazius (Lithuania)

Behaviour of Class 'C' Fly Ash in High Volume Fly Ash Concrete in Reinforced Cement Concrete Beams

Dr G Mohan Ganesh, M Balamurugan (India)

A High Performance Fibre Reinforced Cement Based Plaster for Retrofitting R C Members

Mahmoud R Maheri, Akbar Hajipour (Iran)

Self Compacting Concrete Containing Marble Powder and Stone Dust as Fine Aggregate

Kanwarjeet Bedi, Hardeep Rai, Rajesh Aastha (India)

Probabilistic Assessment of Flexural Strength of Corrosion Affected RC Beams Considering the Loss of Bond

Kapilesh Bhargava, Yasuhiro Mori, A K Ghosh, Sekhar Basu (India)

Dynamic Analysis of Concrete Wind Turbine Towers

Alan O'Connor, Aidan Quilligan (Ireland)

Innovative Design at Minimal Operational Cost for Sustainable Concrete
Construction

Maniit Kaur (India)

Waste Rubber Tire Reinforced Soils - An Overview Sanjeev Naval, Arvind Kumar, S K Bansal (India)

Genesis of UKIERI Concrete Congress

In 2007, a project, funded by UK-India Education and Research Initiative (UKIERI), and chaired by Professor Ravindra K Dhir, brought together academics at ten UK/Indian higher education institutions to collaborate in research in the areas of concrete science, technology and structural engineering and to develop solutions for providing sustainable high performance concrete infrastructure. Sustainability beyond UKIERI has been an integral part of this collaboration, and during the final stages of the project, an International Congress, 'Concrete for 21st Century Construction' dealing with themes of new developments in concrete construction and concrete for high performance sustainable infrastructure was held at the Indian Institute of Technology (IIT) Delhi, India on 8-10 March 2011. More than 300 delegates from cement, construction industry and academic institutions participated in the Congress, which was overwhelmingly supported by the cement and construction industry.

Following this success, the Group decided to establish an International Congress series under the name of UKIERI Concrete Congress of which the one to be held in Punjab, on 5-8 March 2013, will be the second event.



UKIERI Collaborative Concrete Research Project Team

Ms Sally Goggin, British Council, India, Education Director inaugurating the UKIERI Concrete Congress held at IIT Delhi 8-10 March 2011



Conference 5 Friday 8 March 2013

Efficient Concrete Structures

Dedicated to Professor Michel Virlogeux President, European Construction Institute, **France**

Themes

- High Rise Buildings
- Wide-Span Bridges
- Offshore/Onshore Tunnels
- · Naturally Ventilated Structures
- Offshore Oil Applications
- Thermal Mass Effects
- Nuclear Structures
- Embedded Structural and Foundation Systems
- Active and Passive Control Systems
- Plate Systems

- Fire Resistance and Assessment
- · Seismic Resistant Structures
- Aesthetics and Sustainability Issues
- Challenges for Developing Countries
- Others

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- Architect Janne Terasvirta, ALA Architect, Finland
- · Prof Roger West, Trinity College Dublin, Ireland
- Prof Alphose Zingoni, University of Cape Town, South Africa

Opening Paper

Professor Michel Virlogeux

President European Construction Institute, France

Games 2010

Paper Title: Cable Stayed Bridges, Modernity and Efficiency



Keynote Papers



Professor Mahesh Tandon Managing Director, Tandon Consultants Pvt Ltd, India Paper Title: Bridges and Flyovers for Commonwealth



Dr Vasudev V Nori

Chairman, Shirish Patel and Associates Consultants Pvt Ltd, **India**

Paper Title: Efficient Concrete Structures: An Indian Experience



Closing Paper

Professor Enzo Siviero

University of IUAV of Venice and President of Enzo Siviero & Partners, Italy

Paper Title: Concrete Arch Bridges: Small is Beautiful and Efficient



Conference 5: Efficient Concrete Structures

Influence of Masonry Infill Panels on the Seismic Response of RC Frame Buildings

Kadid Abdelkrim, D Yahiaoui, A Zaine (Algeria)

Assessment of Vulnerability Curves for Algerian Types RC Buildings Bensaibi Mahmoud, Belheouane Fatma Imene (Algeria)

3D Numerical Simulation of Concrete Filled Steel Tubular Columns using ANSYS P K Gupta, Ziyad Khaudhair, A K Ahuja (India)

Review of Concrete Oil and Gas Platforms in Offshore Marine Environment Rizwan Khan, Suhail Ahmad (India)

Foundation Settlements for Footings Embedded in Rock Masses Ashutosh Trivedi, Naresh Kumar (India)

Exposed Reckli Finish Retaining Wall Manoj Didwania, Hemal Doshi (India)

Response of Nuclear Power Plants against Crash of Commercial Aircrafts Rehan Sadique, Ashraf Iqbal, Paradeep Bhargava (India)

Effect of Elevated Temperature on the Compressive Strength and Surface Porosity of HPC

Kishor Kulkarni, K S Babunarayan, Subhash Yaragal (India)

Effect of Heating Rate on Strength Retention Characteristics of OPC Concrete Shree Laxmi Prashanth, K S Babunarayan, Subhash Yaragal (India)

Influence of Staircase on the Seismic Behaviour of Multi-Storeyed RC Frame Building

Kaustubh Dasgupta, Namuduri Midhun Tej (India)

Seismic Performance of Masonry Infills Reinforced Concrete Buildings Mohd Danish, Shoeb Masood, Amjad Masood, Mohd Shariq (India)

Influence of Slab-Structural Wall Junction on Seismic Behaviour of RC Frame Buildings

Kaustubh Dasgupta, Kaushik Mondal (India)

Form Making in Concrete

Anu Singh (India)

Residual Behaviour of Pre-Damaged Steel Rebars Exposed to Elevated Temperatures

Virendra Kumar, Umesh Kumar Sharma, Bhupinder Singh, Pradeep Bhargava (India)

Constitutive Models for Sustainable Design of Foundation Systems Harvinder Singh, J N Jha (India)

Seismic Behavior of RCC Framed Buildings with Plan Irregularity and Curtailed Shear Wall

R S Malik, S K Madan, V K Sehgal (India)

Seismic Behavior of RCC Framed Buildings with Vertical Irregularity R S Malik, S K Madan, V K Sehgal (India)

Assessment of the Seismic Behavior of the Structures Based on the Probabilities: Implementing MPA

Mohsen Javan Pour, Panam Zarfam (Iran)

Structural Behavior of Reinforced Concrete Beams Repaired By Fiber Carbon Reinforcement Polymer Plate

Ahmed Segayer, Salim Ahmad, Suad Tleish (Libya)

Evaluate the Impact of Concrete and Base Material Properties, and Joint Stiffness on Load Transfer Efficiency of Rigid Airfield Pavements Yusuf Mehta, A Joshi, D Cleary (United States)

Control of Wind-Induced Nonlinear Oscillations in Suspension Bridges using a Semi-Active Tuned Mass Damper Mohamed Abdel-Rohman (Kuwait) Strengthening and Pounding Risk Mitigation of Multi-Storey RC Adjacent Buildings

Nouredine Bourahla, Salim Tafraout, Farah Kahlouche, Djidjeli Fayçal (Algeria)

Competency - A Key Ingredient for the Delivery of Efficient and Sustainable Concrete Structures

B J Magee, P A M Basheer, A E Long, P C Hewlett (UK)

Seismic Performance of Partially-Infilled Reinforced Concrete Frames with Glass Fiber Reinforced Polymers

C Jayaguru, K Subramanian (India)

Nonlinear Seismic Analysis of Reinforced Concrete Multi-Bay Cylindrical Shell Structures

R Pathak, A Melani, R K Khare, V K Shukla (India)

Damage Effects in Concrete Beams and Frames due to Fire-Performance and Assessment

T Sakthivel, C Natarajan, A Rajaraman (India)

Sprayed Concrete Lining Performance Analysis for Soft Ground Tunnel Application

Raghuraj Pandya, Ian Turner (UK)

Seismic Behaviour of a Ten Storey Frame with External Shear Wall as Lateral Load Resisting System

Sreenivasa Venkatesh, Sharada Bai, Ramya Ramesh (India)

Influence of Infill Walls on the Behaviour of RCC Building Frames Subjected to Seismic Loads

Harbhajan Singh, S P Singh (India)

Plate Load Test for a Footing Resting on Fiber Reinforced Sand Arvind Kumar. Arshdeep Kaur (India)

Post-Fire Residual Strength and Durability of High Performance Concrete Umesh Kumar Sharma, Pradeep Bhargava (India)

Effect of Dosage of Silica Fume on Thermal Spalling and Residual Strength of High Performance Concrete

Umesh Kr Sharma, Abdul Rahim, K Murugesan (India)

A Comparative Study of Seismic Response of Multi-Storeyed Buildings Between IS 1893(Part 1) - 2002 And IITK-GSDMA Proposed Draft Code A P Singh, S P Singh (India)

Behaviour of Contained Masonry Infilled RC Frames Subjected to Seismic Forces

M Mahadev Achar, D S Prakash (India)

A Smarter Concrete for Fast-Track Construction Charles S Jones, S Ramakrishnan (India)

Planning in Design & Construction of Bridges Oriented towards Economy & Durability - A Case Study

Mr Harpreet Singh, Mr Sharad Gupta (India)

Active Structural Control of Vibration in Buildings

Ahmed Segayer (Libya)

Correlation of Properties and Characteristics of Civil Engineering Materials (Concrete) and (RCC) Elements Determined by Destructive and Non Destructive Tests

Siddharth Shankar (Nepal)

Achieving Economy & Sustainability in Bridge Design using Integral Bridge Concept - A Case Study for Flyover Near Tata Motors, Pune Alok Bhowmick, Sanjay Jain (India)

Reliability Based Design of Prestressed Concrete Continuous Beams Satinder Ghuman, V R Sharma (India)

Conference 6 Friday 8 March 2013

Fine, Ultrafine and Nano-based Materials in Concrete

Dedicated to P N Balaguru

Distinguished Professor, The State University of New Jersey, USA

Themes

- Role of Fine/ Ultrafine/ Nano Materials in Concrete Construction
- Role in Promoting Sustainable Construction
- Fine and Ultrafine Calcium Carbonates and Silicates
- Fine and Ultrafine Fly Ash and Slag Materials
- · Metakaolin and Silica Fume Materials
- Nano Structural Superplasticisers
- Nano Silica Additions
- Nano Particles and Tubes
- · Nano Materials and Cement Hydration
- Nano Instruments
- Hydration and Microstructure Changes
- Next Generation of Nano-based Concrete Construction Products
- Challenges for Designing Concrete in Developing Countries
- Challenges of Reducing Carbon Footprint
- Others

Scientific and Technical Advisory Committee

- Prof Arnon Bentur, Israel Institute of Technology, Israel
- Dr A K Chatterjee, Managing Director, Conmat Technologies Pvt Ltd, India
- Mr Cyrus M Dordi, Corporate Head (PQM & CSG), Ambuja Cements Ltd, India
- Dr Per Fidjestol, Technical Director, Elkem ASA Materials, Norway
- Prof Hong Hao, University of Western Australia, Australia
- Dr Mohammad Ismail, Universiti Teknologi Malaysia, Malaysia
- Dr Antonios Kanellopoulos, Frederick University Cyprus, Cyprus
- Dr Vassilia Kasselouri-Rigopoulou, National University of Athens, Greece

- Prof S K Kaushik, Indian Institute of Technology Roorkee, India
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 Czech Republic
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- Prof Tarun R Naik, University of Wisconsin-Milwaukee, USA
- Prof Chi Sun Poon, The Hong Kong Polytechnic University, Hong Kong
- Prof Karen Scrivener, Ecole Polytechnique Federale, Switzerland
- Prof S P Shah, Northwestern University, USA
- Prof Josef Tritthart, University of Technology, Graz, Austria

Opening Paper

Professor P N Balaguru

Distinguished Professor, The State University of New Jersey, USA

Paper Title: Nano Technology and Concrete Structures: Opportunities and Challenges



Keynote Papers



Dr Per Fidjestol
Managing Director, Elkem ASA material, Norway
Paper Title: Silica Fume for High Performance
Concrete



Mr Georg Dirk
Dirk India Pvt Ltd, India
Paper Title: Potential for Developing 3-Way High
performance Concrete Mixes Using Class F Fine and
Ultra-Fine Fly Ash

Mr Cyrus M Dordi

and Dr A N Vyasa Rao, Ambuja Cements Ltd, India Paper Title: Improvements in Performance of Concrete using Ultrafine Slag



Professor Hui Li

and Dr H G Xiao, Harbin Institute of Technology, **China Paper Title**: Multiple-Functionalities, Modelling and **Applications of Concrete Containing Nanomaterials**



Closing Paper

Professor Ravindra K Dhir OBE

University of Dundee, UK/Trinity College Dublin, Ireland

Paper Title: Viewing High Performance Cement and Concrete Research through a Wide Angle Lens



Conference 6: Fine, Ultrafine and Nano-based Materials in Concrete

Effects of Fungal Treated Waste Foundry Sand on Concrete Properties Gurdeep Kaur, Rafat Siddique, Anita Rajor (India)

Use of Ultrafine Cementitious Material in Concrete

Manish Mokal, N Nayak (India)

Influence of Fineness on Physico-Chemical Properties of Cement B Bhuvaneshwari, Saptarshi Sasmal, T Baskaran, Nagesh R Iyer (India)

Civil Engineering Applications of Raw Carbon Nanotubes as Composites in Mortar and Concrete

N C Kothiyal, Dimple (India)

Fatigue Analysis of Steel Fibre Reinforced Concrete Containing Cement

G Kaur, S P Singh, S K Kaushik (India)

Strength and Water Permeation of Concrete with Blends of Limestone Powder, Metakaolin and Light Fill

Bavita Bhardwaj, S P Singh, Abhimanyu Bhardwaj (India)

Application of Nanotechnology in Concrete - A Review

Prem Pal Bansal, Maneek Kumar, Anil Kumar Nanda (India)

Study of Silica Fume and Polypropylene Fibres Effect on Water Sorptivity of Concrete

HT Prajapati, NK Arora (India)

Suitability of Lime and Pozzolanic Reactivity Test Methods for various Mineral Admixtures

M S Hemalatha, Manu Santhanam (India)

Numerical Analysis and Study of Nanomaterials for Repair in Distressed Irrigation Structures

J Nirmala, Dr G Dhanalakshmi, Dr A Rajaraman (India)

Water Permeation Properties of Self Compacting Concrete using the Blends of Silica Fumes and Metakaolin

Amardeep Singh, S P Singh, Sumit Arora (India)

Production of Nano-Sized Particles from Cement Kiln Dust

Ramzi Taha, Hammad Al-Nasseri, Khalifa Al-Jabri, Ali Al-Nuaimi, A Al Harthy (Qatar)

Trailblazing Cementitious Binders

Anuj Choudhari, Bhupinder Singh (India)

Utilization of Fine and Ultrafine Fly ash and Slag Material

M N Akhtar, O Hattamleh, J N Akhtar (Soudi-Arabia)

Studies on Surface Morphology of Cement Paste by Atomic Force Microscopy Bishwajit Bhattacharjee, V Sairam (India)

Potentials of Nanotechnology in Construction Engineering - Enhancing the

Strength of Concrete

Deepak Sharma (India)

The use of Nanoparticles and Nanotubes in Construction

Virat Shah (India)

Macro Defect Free Concrete for Beam Column Joints

Ravi Sharma, Trilok Gupta (India)

Application of Nanotechnology in Concrete Technology

Mithesh Kumar (India)

Synergy of Flyash and Ultrafine Slag

Mahipal Burdak, Praveen Kumar, S S Sankhla (India)

Strength Development and Water Permeation of Concrete Containing Silica

Shivam Sharma, Rohit Sharma, S P Singh, Rizwan A Khan (India)

Concrete towards Perfection

P Srinivasan (India)

Phytotoxicity of Arsenic (As) to Rice (Oryza Sativa I.)

Amandeep Kaur, Davinder Singh (India)

Effect of Aggressive Environment on Durability of Metakaolin Based Cement

Maneek Kumar, Prashant Kumar, Shweta Goyal Dev (India)

The Effect of High Temperature on Mechanical Properties of Lightweight

Expanded Polystyrene Concrete

Peiman Ghaffari, Sara Ghahramani, Abdolrasoul Ranjbaran (Iran)

Effect of Date Palm Fibers and Silica Fume on the Mechanical Properties of Fiber Reinforced Concrete

M Iqbal Khan, Wasim Abbass (Saudi Arabia)

Nano-Engineered and Self-Sensing Geopolymer Cementatious Material for

Sustainable Infrastructure

Mohamed Saafi, Kelly Andrew, David McGhon (UK)

Effect of Silica Fume on Steel Slag Concrete

Jagadish Mallick, Asha Patel (India)

Reactivity of Alumino-Silicates as Supplementary Cementitious Materials (SCM's)

in Autoclaved Hydrated Lime? Silica Binders

Kia Angus, Paul Thomas, Kirk Vessalas, Ahbi Ray (Australia)

Effect of Nano-Silica in Cement and Concrete

Thushara Priyadarshana, Ranjith Dissanayake (Sri Lanka)

Trade Fair at UKIERI Concrete Congress 2011

In the last UKIERI Concrete Congress held on 8-10 March 2011 at Indian Institute of Technology Delhi, the trade fair has been the focal point of the event. Concrete manufacturers, material suppliers, contractors, publishers, research, educational and professional institutions are all represented. Their fields of expertise cover the various themes of the Congress and this provides an excellent opportunity to augment the knowledge gained at various sessions through technology demonstrations.







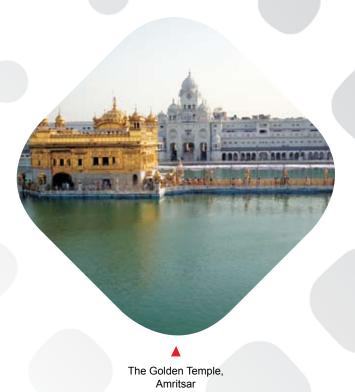


Glimpses of the Trade Fair at the UKIERI Concrete Congress held at IIT Delhi in March 2011



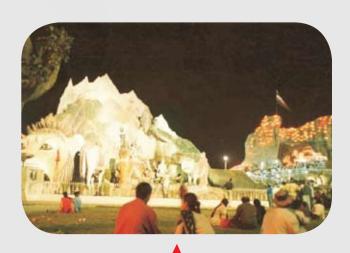
Punjab The Smiling Face of India

Punjab, located in the north west of India, with its capital at Chandigarh, is one of its most prosperous states. The five rivers Sutlei, Beas, Ravi, Chenab and Jhelum gave it its name 'punj-ab' or the 'land of five waters'. Punjab is the cradle of the Indus Valley Civilisation, more than 4000 years old. In 1947, at the end of British Rule, the Punjab was split between India and Pakistan. Some of the main cities in Indian Punjab are Amritsar, Jalandhar, Ludhiana and Patiala. Enriched with a distinct blend of rural and urban flavours, Punjab has a lot to offer to a tourist eye. It has a unique religious legacy with a host of Gurudwaras, the largest and the most prominent being The Golden Temple at Amritsar. The Jallianwala Bagh of Amritsar is another historical spot which reminds one of the Punjab's sacrifices to the freedom struggle of India. Punjab is called the Granary of India or India's breadbasket as it produces 60% of its wheat and 40% of its rice. The famous Bhakra Dam, described as The New Temple of Resurgent India by Pt. Jawahar Lal Nehru, the first Prime Minister of India, is located across Sutlej River near its border. Above all, the warmth and hospitality of the people are the main attractions in this region.



Welcome to Jalandhar

An ancient city in Punjab, Jalandhar, ruled by the Hindus and the Mughals in succession, is believed to be the oldest city in Punjab. The city, which has major road and rail connections, is a market for agricultural products, textiles, leather goods, wood products, and sporting goods. Jalandhar today is a highly industrialised centre being India's foremost producer of world class sports equipments. Popularly called the 'Sports City of India' as it has not only the finest sports industry but also has the distinction of producing some of the best sports persons in the country. Jalandhar is also considered as a hub for education as many professional Institutions are situated in the city. It has very alive atmosphere, something that is typical to the whole of Punjab. It is situated at a distance of 146 km from its capital Chandigarh and is at a distance of 350 km from New Delhi on Delhi-Amritsar National Highway. Nearest international airport is at Amritsar at a distance of 90 km.



Sri Devi Talab Temple, Jalandhar

Dr B R Ambedkar National Institute of Technology, Jalandhar

Dr B R Ambedkar National Institute of Technology, Jalandhar (NITJ) is a leading premier autonomous Institution of northern India. The Institute was established in the year 1987 as a Regional Engineering College, which was given the status of National Institute of Technology in the year 2002 by the Government of India. The institute offers Bachelor of Technology (B.Tech.) programmes in nine disciplines of Engineering and Technology along with the Research Programmes leading to Master of Science (M.Sc.), Master of Technology (M.Tech.) and Doctor of Philosophy (Ph.D.). The Institute is located in an eco-friendly environment amidst a rambling campus spread over 154 acres.

The Department of Civil Engineering has the honour of being accredited for a maximum period of five years by the National Board of Accreditation (NBA) in 2004. The Department has also been selected as 'DST-FIST Sponsored Department' by the Ministry of Science and Technology, Government of India.



Guru Nanak Dev Engineering College, Ludhiana

Guru Nanak Dev Engineering College, Ludhiana is the oldest engineering college in North India; established in the year 1956 by the Nankana Sahib Education Trust (NSET). The NSET was founded in the memory of the most sacred temple of Nankana Sahib, birth place of Guru Nanak Dev Ji. Shiromani Gurudwara Prabandhak Committee (SGPC), Amritsar, a premier organisation of universal brotherhood, was the main force behind the mission of Removal of Economic Backwardness through Technology. The college is now ISO 9001-2008 certified, having all the courses accredited by National Board of Accreditation (NBA).

The Department of Civil Engineering offers academic programs leading to the award of B.Tech., M.Tech. and Ph.D. degree by the Punjab Technical University, Jalandhar. The Department is well known in the region for imparting consultancy services to Government, Semi Government and private organisations.



Convocation 2011 of Guru Nanak Dev Engineering College, Ludhiana

Marching Towards Golden Era



Dr Anil Kakodkar, Chairman, Board of Governors of Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, launched the Silver Jubilee Celebrations of the Institute on 17 October 2011. The launch celebrations were held in

the presence of luminaries including former Principals, Directors and members of academic faculty, staff and students in a glittering function. The celebrations include conferences, seminars, workshops, and lectures along with technical and cultural events to make the occasion memorable one for all members of the Institute and their families and the students as well as to underline the beginning of the GOLDEN ERA for the Institute.

UKIERI Concrete Congress has been part of these celebrations. Indeed, the Congress, which has become a major international event, has been designed both to highlight and enhance the glit and glamour of the Silver Jubilee Celebrations and to mark the beginning of the Golden Era for this Institute of National Importance established by Government of India through an Act of Parliament.



Chairman, Dr Anil Kakodkar launching the Silver Jubilee Celebrations 17 October 2011



Director, Professor S K Das releasing the first Congress Brochure 13 December 2011



Professor Ravindra K Dhir OBE delivering Silver Jubilee Lecture 14 February 2012



Launching of Silver Jubilee Celebrations 17 October 2011



Chairman & Director with Former Principals, Directors & Registrar 17 October 2011

For Further Details and Assistance, Please Contact

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UKIERI Collaborative Concrete Research Partners























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