



National Seminar

on

“ Research and Innovation for Sustainable Development of India”

September 6 - 7 , 2021

Organized by

National Council for Cement and Building Materials

(Under the Administrative Control of Ministry of Commerce & Industry, Govt. of India)

Ballabgarh (Haryana)

Institutional Collaboration



Sh Sanjay Pant

DDG (Standardization-II), BIS, GOI
(Chief Guest)



Dr. S S Gupta

Senior Development Officer, DPIIT
Ministry of Commerce and Industry, GOI
(Guest of Honour)



Dr. B N Mohapatra

Director General,
NCB



Keynote Address on “Quality Control of Concrete”

Dr. Bhupinder Singh
Professor, IIT-Roorkee



Keynote Address on “Role of NCB towards Sustainability of Cement Industry”

Dr. S K Chaturvedi,
Joint Director & Head-CRT, NCB



Keynote Address on “Geopolymer Concrete- An Emerging Technology towards Sustainability”

Sh. Amit Trivedi
General Manager & Head-CQC, NCB



Keynote Address on “ Lightweight Precast Hollow core slabs For Sustainable Concrete”

Dr. Surya Prakash
Professor, IIT-Hyderabad



Keynote Address on “ Role of longitudinal reinforcement on the behavior of under-reinforced concrete beams subjected to fatigue loading”

Dr. Prashant M H
Assistant Professor, NIT-Surathkal

Monday, 06 September 2021

- ☞ 1100 h to 1130 h - Inaugural Session
- ☞ 1130 h to 1310 h - Forenoon Session Day 1
- ☞ 1500 h to 1700 h - Afternoon Session Day 1

Tuesday, 07 September 2021

- ☞ 1100 h to 1300 h - Forenoon Session Day 2
- ☞ 1500 h to 1645 h - Afternoon Session Day 2
- ☞ 1645 h to 1715 h - Concluding Session

**Free Event
Registration**

Registration Link for Day-1:

<https://ncbindia.webex.com/ncbindia/onstage/g.php?MTID=efa20cd7f515409538a561b5020805eb1>

Registration Link for Day-2

<https://ncbindia.webex.com/ncbindia/onstage/g.php?MTID=e8b269e9053469b2e9c573efc1ac1c54e>

Contact us

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website : www.ncbindia.com

Monday, 06 September 2021 1130 h to 1310 h

Forenoon Session Day 1

Moderator : Shri Gaurav Bhatnagar , NCB

Chairman : Shri P N Ojha, Joint Director & Head –CDR, NCB

1. **Keynote Address on “Quality Control of Concrete”**
Dr. Bhupinder Singh, *Professor, Indian Institute of Technology, Roorkee*
2. **Flexural Behavior of Hollow-Core Slabs Made With Structural Lightweight Aggregate Concrete**
Sumit Sahoo, Veerendar Chetharajupalli, Suriya Prakash S, Indu Siva Ranjani Gandhi *Indian Institute of Technology-Hyderabad and Indian Institute of Technology -Guwahati*
3. **Impact of Longitudinal Spacing Between Spring Isolators on the Fatigue Strength of Floating Slab Track**
S. Bashir , A R Chowdhary and N Akhtar, *AcSIR-Ghaziabad, CRRI-Council of Scientific And Industrial Research (CSIR)*
4. **Characteristics Of Self-Compacting Based Hybrid Fiber Reinforced Concrete With Temperature Rise**
Dr. Chinmaya Kumar Mahapatra and Prof. (Dr.) Sudhir Kumar V. Barai, *IIT-Kharagpur and Innovative Consultant & Constructions, Bhubaneswar, Odisha*
5. **Concluding Remarks by Chairman of the session**

(Time duration: For Keynote Address: 30 min; Other Presentations: 20 min each)

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Tuesday, 07 September 2021 1100 h to 1300 h

Forenoon Session Day 2

Moderator : Shri V Venkatesh, Manager, NCB

Chairman : Dr. Nasim Akhtar, Senior Principal Scientist, CSIR-CRRI

1. **Keynote Address on “Lightweight Precast Hollow core slabs for sustainable Concrete”**
Dr. Surya Prakash, *Professor, Indian Institute of Technology, Hyderabad*
2. **Keynote Address on “Geopolymer Concrete - An Emerging Technology towards Sustainability”**
Amit Trivedi, *General Manager & Head-CQC, National Council for Cement and Building Materials*
3. **Experimental Investigation on Properties of RAP inclusive Concrete Using Chemical Admixtures, Basalt Fibers, and Rejuvenators**
Akash Naphade, Shubham Waichale , Susmit Walavalkar , Swapnil Patade and Jessly Rajan, *Datta Meghe College of Engineering, Maharashtra*
4. **Impact on Mechanical Properties of Ordinary Portland Cement by Addition of Limestone Powder: A Case Study in Indian Scenario**
Sandeep Gupta, B.N. Mohapatra and Megha Bansal, *National Council for Cement and Building Materials and Manav Rachna University, Faridabad*
5. **Experimental Study on the Mechanical Properties of Carbon Fiber Reinforced Bottom Ash Concrete**
Rohan Mankar , Shreya Suryavanshi , Shubham Gawade and Prof. Jessly Rajan, *Datta Meghe College of Engineering, Maharashtra*
6. **Concluding Remarks by Chairman of the session**

(Time duration: For Keynote Address: 30 min; Other Presentations: 15 min each)

Registration Link for Day-2

<https://ncbindia.webex.com/ncbindia/onstage/g.php?MTID=e8b269e9053469b2e9c573efc1ac1c54e>

Monday, 06 September 2021 1500 h to 1700 h

Afternoon Session Day 1

Moderator : Ms Meghna Verma, NCB

Chairman : Dr. Megha Bansal, Professor, Chemistry Dept. Manav Rachna University

1. **Keynote Address on “Role of NCB towards Sustainability of Cement Industry”**
Dr. S K Chaturvedi, *Joint Director & Head-CRT, National Council for Cement and Building Materials*
2. **Sustainable Use of Industrial Wastes as Additives in Compressed Stabilized Earth Blocks – A Review**
Pujitha Ganapathi C, T H Sadashiva Murthy, Arkamitra Kar, *National Institute of Engineering, Karnataka and BITS Pilani, Hyderabad*
3. **Development of suitable machine learning model for a cement plant calciner**
Prateek Sharma, Aditya Ranjan, M V Ramachandra Rao, Pratik N Sheth, *BITS Pilani- Goa, National Council for Cement and Building Materials and BITS Pilani*
4. **Construction and Demolition Waste in the purview of Circular Economy**
Asna Farooqui, *National Productivity Council*
5. **Challenges in RDF Characterization for Transfer Chute Design simulation and Analysis in DEM**
Kapil Kukreja, M S Soni, B N Mohapatra, S R Patnaik, *BITS Pilani and National Council for Cement and Building Materials*
6. **Concluding Remarks by Chairperson of the session**

(Time duration: For Keynote Address: 30 min; Other Presentations: 20 min each)

Registration Link for Day-1

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Tuesday, 07 September 2021 1500 h to 1645 h

Afternoon Session Day 2

Moderator : Ms. Ruby Malik, NCB

Chairman : Dr. Pradip Sarkar, Professor, Department of Civil Engineering, NIT Rourkela

1. **Keynote Address on “Role of longitudinal reinforcement on the behavior of under-reinforced concrete beams subjected to fatigue loading”**
Dr. Prashanth M H, *Assistant Professor, NIT- Surathkal*
2. **Suitable Noise Barrier For Construction Site**
Faiz Anwar , Nasim Akhtar, Sirajuddin Ahmad, *Jamia Millia Islamia (Central University), New Delhi and CSIR-CRRI, New Delhi*
3. **Co-digestion of lignocellulosic biomass waste with cow-dung: Experimental studies for biogas production potential**
Punam, *Manav Rachna University, Faridabad*
4. **Numerical Simulation of Multiphase Calcination Reaction with Coal Combustion in a Calciner**
Devimalya Biswas, Kapil Kukreja, Prateek Sharma, Vivek Sharma, *BITS Pilani- Hyderabad Campus and National Council for Cement and Building Materials*
5. **Concluding Remarks by Chairman of the session**

(Time duration: For Keynote Address: 30 min; Other Presentations: 20 min each)

Registration Link for Day-2

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