

PROGRAMME SCHEDULE

National Seminar on “Research and Innovation for Sustainable Development of India”

06 – 07 September, 2021

Organized by



National Council for Cement and Building Materials
(Under the Administrative Control of Ministry of Commerce & Industry,
Govt. of India)

In Collaboration with



IIT-Roorkee



IIT-Hyderabad



IIT-Bhubaneswar



NIT-Warangal



NIT-Surathkal



NIT-Meghalaya



NIT-Silchar



CPPRI-Saharanpur



NPC-New Delhi



BITS-Pilani



NIT-Andhra



MANAV RACHNA
vidyayantraikishal



**National Seminar on
Research and Innovation for Sustainable Development of India
06 – 07 September, 2021**

Monday, 06 September 2021

1100 h to 1130 h

INAUGURAL SESSION

Online

Moderator: **Shri Kapil Kukreja**, Organizing Secretary, National Seminar-RISDI, NCB

Welcome Address by
Dr. B N Mohapatra
Director General – NCB

Government Initiatives for promotion of Research and Innovation
in Cement & Construction Sector by
Guest of Honour
Dr. S S Gupta
Senior Development Officer, DPIIT,
Ministry of Commerce and Industry, Govt. of India

Inaugural Address by
Chief Guest
Shri Sanjay Pant
Deputy Director General (Standardization-II), Bureau of Indian
Standards, Govt. of India

Vote of Thanks by
Shri Kapil Kukreja
Organizing Secretary, National Seminar-RISDI, NCB

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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, CRRICouncil 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.) Sudhirkumar 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)

Registration Link for Day-1

<https://ncbindia.webex.com/ncbindia/onstage/g.php?MTID=efa20cd7f5>



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[15409538a561b5020805eb1](https://doi.org/10.15409538a561b5020805eb1)

Monday, 06 September 2021

1500 h to 1700 h

Afternoon Session

Day 1

Moderator: Ms. Meghana Verma, NCB

Chairperson: 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

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6. Concluding Remarks by Chairperson of the session

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

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**

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**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>

Tuesday, 07 September 2021

1500 h to 1645 h

Afternoon Session

Day 2

Moderator: Ms. Ruby Mallik, NCB

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

National Institute of Technology 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**

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Combustion in a Calciner

Devmalya 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)

Tuesday, 07 September 2021

1645 h to 1715 h

CONCLUDING SESSION

Highlights of National Seminar-RISDI by
Shri Anupam, General Manager & Head-CIS, NCB

Feedback

Valedictory Address & Best Paper Presentation Awards by
Shri Ashutosh Saxena, Joint Director & Head-CME, NCB

Vote of Thanks by
Shri Ankur Mittal, Group Manager, NCB
