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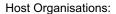
**Congress Secretariat:** 

Dr B R Ambedkar National Institute of Technology Jalandhar – 144 027 (Punjab) India

www.ukiericoncretecongress.com

# First Announcement Call for Papers





Dr B R Ambedkar National Institute of Technology, Jalandhar (Punjab) India Guru Nanak Dev Engineering College, Ludhiana (Punjab) India





ONCRETE is a global construction material, serving the social, engineering and commercial needs of the mankind through means of building the essential infrastructure to sustain our progress. The basic materials that comprise concrete are also global and this makes it second to water only in volume consumption. Notwithstanding these benefits, concrete and its providers and users also have responsibilities and obligations in ensuring its correct, durable and sustainable applications. This UKIERI Concrete Congress is being organised to discuss all aspects relating to concrete's current and future contribution as to how we build the established and develop living world. In achieving this aim, the Congress will be working with the stakeholders worldwide, involving researchers, practitioners, professional institutions, trade organisations and the relating Government departments.

The six Conferences comprising the Congress are designed to cover a wide range of issues reflecting concrete's versatility relevance and potential for further exploitation. The proceedings of the Congress will be managed differently, maximizing the delivery of current knowledge as well as the creation of new knowledge, focusing on the advantages and benefits as well as cutting across barriers that can limit applications. The need for future provision whilst responding to environmental concerns will be discussed. There will be opportunity to learn, network, debate and find solutions and opportunities relating to these issues.

The Congress will appeal to providers of services, manufacturers, practicing engineers, designer's consultants and researchers as well as planners and property developers. In fact, to all that relate to concrete's unique contribution to how we live both now and in the future.

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H P Singh, Dr B R Ambedkar National Institute of Technology, Jalandhar, India

S B Singh, Birla Institute of Technology and Science, Pilani, India

Roger P West, Trinity College Dublin, Ireland

# Opening Session Tuesday 14 March 2023 13.30 hrs UKIERI Concrete Congress Sustainable Concrete Infrastructure

### The Congress will host the following Conferences:

#### Conference 1:

Waste Materials for Building Concrete Infrastructure

#### Conference 2:

Smart and Eco-Cement Materials for Concrete Construction

#### Conference 3:

Reinforced Concrete and Precast Concrete for Sustainable Infrastructure

#### Conference 4:

Self-Compacting Concrete in Morden Construction Era

#### Conference 5:

Advances in Geopolymer Concrete and Applications

#### Conference 6:

3D Printing as the Future of Sustainable Concrete Infrastructure

## Wednesday

15 March 2023

## Conference 1

## Waste Materials for Building Concrete Infrastructure

#### **Themes**

- Recycled and Secondary Materials and Use
- Use of Quarry Fines
- Fresh Concrete, Engineering and Durability Performance
- Performance- Based Specifications

- Environment Impact and Sustainable Development
- CO<sub>2</sub> Life Cycles Assessment/Analysis
- Case Studies, Future Development and Trends
- Others

## Wednesday

15 March 2023

## Conference 2

## Smart and Eco-Cement Materials for Concrete Construction

#### **Themes**

- Super/Smart Absorbent Polymers
- Self-healing, Self-cleaning and Self-curing Phenomena
- Nano Materials, Novel Fibres and Smart Sensors
- Nano Superplasticisers/Particles/Tubes

- Next Generation of Nano Based Concretes
- Porous Concrete and Applications
- Non-Intervention Techniques
- Others

## **Thursday**

16 March 2023

## Conference 3

Reinforced Concrete and Precast Concrete for Sustainable Infrastructure

#### **Themes**

- Precast/Masonry for Housing and Infrastructure Development
- Bridge/Tunnel Segmental Construction
- Sustainable Design and Structural Frames
- Codal Provisions and Design Aspects

- Seismic Performance of Structural Elements
- Structural Optimization and Life Cycle Analysis
- Service Life and Sustainable Design Methods
- Others

#### **Thursday**

16 March 2023

## Conference 4

# Self-Compacting Concrete in Morden Construction Era

#### **Themes**

- Rheology, Early Age Strength and Durability
- Form Work Issues
- Measuring Performance and Test Methods
- Use of Secondary Materials

- Structural and Mechanical Behaviour
- Future Developments and Trends
- Applications and Case Studies.
- Others

#### **Friday**

17 March 2023

## Conference 5

## Advances in Geopolymer Concrete and Applications

#### **Themes**

- Materials and Methods
- Fresh Concrete, Engineering and Durability Properties
- Developing Value Added-Use of Materials
- Environment Impact and Sustainable Development
- Portland Cement Combinations, Benefits and Risks
- Innovative and Future Developments
- Potential Applications and Market Acceptance
- Others

## **Friday**

17 March 2023

## Conference 6

## 3D Printing as the Future of Sustainable Concrete Infrastructure

#### **Themes**

- Materials Information and 3 D Printing Technology
- Building Information Modelling
- Development of Engineering Properties
- In-Situ performance

- Environmental Benefits of 3D-Priting in Construction
- Life Cycle Assessment and case Studies
- Research Goals and Methods
- Others

# Who Should Participate

- Academicians, Researchers and Students
- Design Engineers and Architects
- Contracting Engineers
- Research Funding and Professional Bodies
- Local and Regional Authorities
- Ready Mixed Concrete Suppliers
- Precast Concrete and Materials Suppliers
- Formwork Designers
- Highway Authorities and Designers
- Trade Associations

# Call for Papers

Prospective authors are invited to submit papers which are relevant to the Themes of the Conferences. Authors should submit a 250 word abstract of their proposed paper by 31 August 2022 indicating which Conference and Theme under which the paper is to be considered. The authors should submit abstract(s) in MS Word Format by email at ucc2023@nitj.ac.in as attachment.

# Language

The language of the Congress is English and will be held in Virtual Mode. The Congress Secretariat will be at Dr B R Ambedkar National Institute of Technology, Jalandhar (Punjab), India.

| Key Dates                                  |                   |
|--|-------------------|
| Submission of abstracts                    | 31 August 2022    |
| Acceptance notification                    | 10 September 2022 |
| Submission of draft papers                 | 15 November 2022  |
| Review comments to author (s) & acceptance | 15 December 2022  |
| Submission of final papers                 | 15 January 2023   |

# Congress Fees

The Congress fee includes soft copy of the Abstract Book/Proceedings. The fee structure is shown below, the details regarding mode of payment etc. shall be intimated shortly in due course.

| Fee per Delegate (₹)     |      |
|--------------------------|------|
| Early bird registration* | 1000 |
| Author registration      | 1500 |
| Student registration     | 1000 |
| Standard registration    | 2500 |

<sup>\*</sup> On or before 15 January 2023

# For Further Details, Please Contact

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UKIERI Concrete Congress
Sustainable Concrete Infrastructure

14 – 17 March 2023 (Virtual Mode)

