

# *1<sup>st</sup> International Conference on Construction Materials and Environment (ICCME - 2020)*

**17<sup>th</sup> -18<sup>th</sup> September, 2020**

The proceedings will be published as a book volume under the series title **“Lecture notes in Civil Engineering”** by SPRINGER indexed in **SCOPUS**. Some selected papers will also be published in **“International Journal of Geosynthetics and Ground Engineering”** (Springer publication) indexed in **SCOPUS/ESCI**

- *The last date of paper submission will be April 1<sup>st</sup>, 2020.*
- *Acceptance will be communicated to the authors by June 25<sup>th</sup>, 2020*
- *Early bird registration up to September 5<sup>th</sup>, 2020*
- *Conference dates: September 17<sup>th</sup> - 18<sup>th</sup>, 2020*

## **Call for papers**

The conference will provide an excellent international platform for sharing knowledge and results in theory, methodology, applications, impacts and challenges of Construction materials and Sustainable Environment. ICCME 2020, intends to highlight recent achievements in the form of original papers encompassing construction materials, geotechnical engineering materials, development of pavement materials and sustainable materials in environmental engineering. The conference discusses practical and theoretical results which make a fundamental contribution to the development of construction and sustainable materials in Civil Engineering as a whole. The aim of the conference is to bring together researchers and practitioners from both academia as well as industry to meet and share cutting-edge development in the field of construction materials.

ICCME, 2020 welcomes you to send full length manuscript for the Conference, which will be held, from 17<sup>th</sup> -18<sup>th</sup> September, 2020, Jaypee University of Information Technology, Wanknaghat, Solan, Himachal Pradesh, India.



**Department of Civil Engineering,  
Jaypee University of Information  
Technology, Wanknaghat,  
Solan-173234, Himachal Pradesh,  
India**



## Conference Themes

### Advanced materials and Methods in Structural engineering

- Advances in science and technology of cement, admixtures and concrete
- Advances in material concept and tailored material properties
- Material science of cement and concrete
- Concrete with recycled materials
- Self compacting concrete
- Ultra high performance concrete
- Permeable concrete
- Fiber reinforced concrete
- Sustainability of concrete and Durability of concrete
- Innovative solutions for corrosion prevention of rebars
- Structural health monitoring
- Characterization of fire, blast and impact loading on structures
- Behavior of structural materials at high temperatures
- Design of Bridges for Fire & Blast Resistance (Including Cables & Other Appendages)
- Effects of Fire & Blast on Steel Connections
- Methods for fire damage protection
- Seismic retrofitting
- Advances in testing material properties
- Advances in material modeling, fresh state to early age to fracture and damage mechanics
- Computational structural mechanics

### Geotechnics and Geoenvironmental sustainable materials

- Soil stabilization material and methods
- Foundation stabilization and Construction
- Computational Geotechnics. modelling and simulation
- Reinforced earth structures and materials
- Ground Investigation and Ground risk management
- Geoenvironmental and site investigation
- Geohazard and landslide mitigation technologies
- Slope stability, landslides and natural disaster mitigation
- Ground improvement techniques
- Foundations on difficult soils
- Sustainable Geotechnics
- Uncertainties, risk and reliability in geotechnical engineering
- Geosynthetics engineering
- Laboratory and in-situ tests
- Recent advances in physical modeling
- Soil-structure interaction
- Liquefaction
- Lifelines - pipelines, communications, and transportation systems

### Paper Submission

Prospective authors are required to submit full-length papers of 8 pages. For manuscript format details visit conference website. Submitted research work must be original in content. Plagiarism found at any stage of publication will lead rejection of paper from conference. Authors are required to use iThenticate/Turnitin for checking plagiarism and it must be below 20% to qualify paper to be reviewed. ICCME 2020 doesn't support even self plagiarism. Authors submitting the review type of work must be very cautious about the same. Author(s)/Co-author(s) can submit maximum two papers. The proceeding will be published as a book volume indexed by SCOPUS under the series title "Lecture notes in Civil Engineering" by SPRINGER. Some selected papers will also be published in "International Journal of Geosynthetics and Ground Engineering" indexed in SCOPUS/ESCI and also published by SPRINGER.

### Bio – inspired engineering materials

- Municipal Solid Waste characterization and management
- Environmental dynamics
- Soil decontamination
- Eco-technology
- Bio-engineering and Bio – inspired concrete
- Environmental sustainability
- Resource management
- Life cycle analysis
- Environmental systems approach
- Renewable sources of energy-energy savings
- Clean technologies
- Sustainable cities
- Health and the Environment
- Health related organisms
- Hazardous substances and detection techniques
- Biodegradation of hazardous substances
- Toxicity assessment and epidemiological studies
- Quality guidelines, environmental regulation and monitoring
- Indoor air pollution
- Environmental Science and Technology
- Water resources and river basin management
- Regulatory practice, water quality objectives standard setting, water quality classification

### Recent developments in Transportation Engineering

- Artificial Intelligence
- Operations and Performance of Rural and Urban Roads
- Pavement Materials Evaluation
- Pavement Evaluation
- Traffic Operation on Signalised and Unsignalised Intersections
- Utilisation of waste materials in pavement Construction
- Road stabilisation
- Urban Planning
- Image Processing Technique in Transportation
- Material Characterisation
- Cool Pavements
- Hill Roads (Geometric Design and Performance Evaluation)
- Safety and Accident Analysis

External Resource Person

Dr Sanjay Kumar Shukla

Dr Sanjay Kumar Shukla is the Founding Editor-in-Chief of International Journal of Geosynthetics and Ground Engineering (Springer Nature, Switzerland). He holds the Distinguished/Adjunct Professorship in Civil Engineering at VIT University, Vellore, Chitkara University, Himachal Pradesh, VR Siddhartha Engineering College, Vijayawada, India, and Fiji National University, Fiji. He has over 22 years of experience in teaching, research and consultancy in the field of Civil (Geotechnical) Engineering. He collaborates with several world-class universities, research institutions, industries and individuals on academic and field projects. As a Consulting Geotechnical Engineer, he has successfully provided solutions to the challenging field problems faced by many engineering organizations. He has authored/co-authored more than 220 research papers and technical articles, including over 130 refereed journal publications. He is also author/co-author/editor of 11 books, including 7 textbooks, and 12 book chapters. His works have been cited well. Shukla's generalized expression for seismic active thrust (2015) and Shukla's generalized expression for seismic passive resistance (2013) are routinely used by practicing engineers worldwide for designing the retaining structures. He has been honored with several awards, including the IGS Award (2018) from the International Geosynthetics Society, USA, in recognition of his outstanding contribution to the development and use of geosynthetics during 2014-2017 award period. He serves on the editorial boards of several international journals.

Sponsorship and Exhibition

The focal point of the Conference is to bring different people and technologies together at a common platform. Therefore, equipment/instruments manufacturers, building materials manufacturers, contractors, consultants, are invited to sponsor the event and take the opportunity to exhibit and network with the delegates. Sponsors will gain exposure from a range of promotional benefits including free trade fair space, free delegates and promotion on the Conference website, brochure and programme. Conference website will prominently display details of Sponsors and a link directly to the Sponsor's own website. Sponsors company profile will also be printed in the Programme given to all the delegates at the Conference. An enclosed space of approximately 3 m x 3 m with a table, a chair and power connection shall be made available at a tariff of Rs 25,000/- and if some sponsorer wants to make a presentation to the audience, it will be Rs 50,000/-.

About the University

Jaypee University of Information Technology, Wagnaghat is Set up by Act No. 14 of 2002 vide Extraordinary Gazette notification of Government of Himachal Pradesh dated May 23, 2002. Approved by the University Grants Commission under section 2(f) of the UGC Act, vide letter no. F.9-10/2002(CPP-I) dated 09 Dec. 2002. At present, 06 UG and 08 PG courses are being offered in engineering. The University is offering Ph.D. in Bioinformatics, Biotechnology, Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Humanities & Social Sciences, Mathematics and Physics & Materials Science.

Dates and Venue

The Conference will be held, from 17<sup>th</sup> – 18<sup>th</sup> September, 2020, Jaypee University of Information Technology, Wagnaghat, Solan, Himachal Pradesh, India GPS Coordinates: 31.0166° N, 77.0702° E.

Registration Fees

The fee structure is shown below:

	Category of delegates and authors	Early Bird	Registration	Spot Registration
		General	General	General
Indian authors and Delegates ( in INR)				
Authors	Full time Students*	4000	5000	7000
	Teachers/ Research Scholars	5000	6000	8000
	Industry	10000	12000	13000
Delegates	Students/ Research Scholars	3000	4000	5000
	Academicians/Industry	3000	4000	5000
Foreign authors and Delegates (in USD \$)				
Authors	Full time Students*	300	350	450
	Teachers/ Research Scholars	400	450	550
	Industry	550	550	650
* For extra pages (max 8 Pages), Indian author Rs. 500 per page and foreign author USD 50 per page				

The fee can be paid by Wire Transfer. For more details on wire transfer please visit conference website at <http://www.juitcec.in>

Who Should Participate

- Design Engineers and Architects
- Contracting Engineers
- Research Funding and Professional Bodies
- Local and Regional Authorities
- Highway Authorities and Designers
- Academicians, Researchers and Students

Accommodation

If requested, participants will be provided free accommodation in the New University Hostel(s), with basic amenities. Paid accommodation is also available in the nearby hotels.

Travelling to Wagnaghat

Convenient airports are Shimla (30 km), Chandigarh (100 km), IGI New Delhi (350 km) and Amritsar (350 km). All Buses from New Delhi (Kashmiri Gate ISBT), Chandigarh (ISBT, Sec 43), and other places to Shimla drop and pick up passengers from Wagnaghat (3 Km away from Conference venue). Direct trains from New Delhi, Delhi, and other places are available upto Kalka (70 km), Chandigarh (100km.), and Ambala (140km). After that one can hire taxi or board a bus to Wagnaghat, Shimla. One can also choose to travel by Kalka-Shimla Heritage Toy Train upto Kandaghat (12 km from Conference venue).

About the Department

Civil Engineering Department has been accredited by National Board of Accreditation (NBA) since 2008. It is running three full time PG programmers (Structural Engg.; Construction Management; Environmental Science & Engineering) along with UG programme in Civil Engineering. In addition, a Ph.D. degree is offered in the areas of Geotechnical Engineering, Structural Engineering, Construction Management, Hydropower Engineering, Environmental Engineering and Water Resources. The department has the state of art facilities for pursuing various R & D activities. The Department is actively engaged in providing consultancy services and tanning program to different government and private sector in and around Himachal Pradesh and Haryana.



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Assistant Professor, Civil Engg Dept, Institute of Infra Technology Research and Management, Ahmadabad

## Location Map of University and Famous Tourist Places

It is just half an hour drive to Shimla from campus. The nearby places of tourist attractions are Shimla (24 km), Chail (45 km), Kufri (45 km), Narkanda (60 km), Naldhera (50 km.)



## Organising Committee

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Shri Manoj Gaur

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Jaypee University of Information Technology, HP, India

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Mr. Abhilash Shukla

Department of Civil Engineering,  
Jaypee University of Information Technology, HP, India

## Paid accommodation is also available in the nearby hotels:

**Club Mahindra (7Km)**, Kandaghat Distt. Solan (HP) Mob. (+91) 9816008921

**Hotel Falcon Crest (10 km)**, Kalka-Shimla Highway, Kandaghat, Distt. Solan (H. P.)

Ph.: (+91) (1792) 256241, 257241, 257242 Mob.: (+91) 9418056242 Fax: (+91) (1792) 256242 Email:

hotelfalconcrest@rediffmail.com , hotelfalconcrest@gmail.com

Website: <http://hotelfalconcrest.com>

**The Apple Cart Inn (4 Km)**, Kiarighat, Distt. Solan (H.P.) Tel. (+91) (177) 2860601, 2860630,

2661073, 2002155 Fax . (+91) (177) 2860602, Email: [booking@himachalhotels.in](mailto:booking@himachalhotels.in)

**Hotel Holiday Home (22 km)**, Shimla , Tel: (+91) (177) 2812890 Fax: (+91) (177) 2801705. E-mail:

hhh@hptdc.in

**Himani Resorts (22 Km)**, The Mall, Solan (H.P.) Tel. (+91) (1792) 222470, 223417, 225470 Fax:

(+91) (1792) 224994 Email: [reservation@himanihotels.com](mailto:reservation@himanihotels.com)

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