

**INTERNATIONAL CONFERENCE ON**

# **INNOVATIVE TECHNOLOGIES FOR CLEAN AND SUSTAINABLE DEVELOPMENT**

**October 14-15, 2021**



**Publication Partner**



National Institute of Technical  
Teachers Training and Research  
Sector-26  
Chandigarh-160019  
[www.nittrchd.ac.in](http://www.nittrchd.ac.in)

**Organized by**

**CHITKARA  
UNIVERSITY**



HIMACHAL PRADESH

Department of Civil Engineering  
Chitkara University  
District Solan  
Himachal Pradesh 174 103  
[www.chitkarauniversity.edu.in](http://www.chitkarauniversity.edu.in)

## INTRODUCTION

Increasing population worldwide creates the need to build more infrastructure and develop more resources, and therefore our environment is under continued deterioration with different types of impact, including depletion of major resources such as air, water and soil, and destruction of ecosystem. There is a need to understand that the true development cannot be achieved by putting resources and ecology at risk. We need to adopt the sustainability in our progress and growth. Sustainability is often defined as a set of environmental, economic and social conditions in which the society has the capacity and opportunity to maintain and improve its quality indefinitely without degrading the quantity, quality or availability of natural, economic, and social resources.

Engineers and Professionals from all disciplines must take the lead in applying sustainability to selection, planning, design, and construction of various elements and components of infrastructure. Historically, sustainability considerations have been approached by engineers as constraints to their designs. But with its growing importance for civil engineering, professionals should move towards incorporating sustainability principles into their routine practice. Sustainable design requires a complete assessment of the design in place and time. Sustainable engineering practice should meet the human needs for natural resources, industrial products, energy, food, transportation, shelter, and effective waste and material management while conserving and protecting environmental quality and the natural resource base, essential for future development.

## OBJECTIVES

The event aims at establishing long term linkages between user industry and providers of clean technologies and sustainable materials for a rapid transformation of the SMEs in the region for enhancing Eco-efficiency and competitive strength of such industries through clean technology interventions. Intended participation aims at about sixty SMEs and over 30 clean technology experts from amongst academia, professional consultants, equipment suppliers and environmental technologists apart from regulators, administrators and students. The conference shall serve as a platform to create awareness and appreciation amongst academicians, scientists, researchers and practitioners from various disciplines and sectors about developing and implementing sustainable practices and technologies that shall minimize the impact on our environment. Deliberations shall be done on new initiatives in latest technologies in the field of infrastructure. This will help in formulating concrete strategies with optimal utilization of available resources for developing these technologies; consolidating the suggestions, strategies and recommendations made during the conference and disseminate knowledge on the topic. The total participation is expected to be around 300 participants.

## THEMES

- ◆ Clean technologies
- ◆ Pollution prevention techniques and technologies
- ◆ Eco & Green materials in construction Sustainable Construction Practices
- ◆ Sustainable buildings
- ◆ Innovative Materials and techniques for sustainable concrete construction
- ◆ Sustainable construction through Pre Cast Technique
- ◆ Sustainability in Road construction Carbon Footprint Management/CDM
- ◆ Architecture structure interaction for sustainable built environment
- ◆ Geospatial Technology for Sustainable & Clean environment
- ◆ Sustainable transport infrastructure & Management Renewable Energy Infrastructure
- ◆ Waste minimization & Management
- ◆ Case studies on cleaner Production in industries
- ◆ Sustainable Infrastructure
- ◆ Zero Energy buildings
- ◆ Smart cities & villages
- ◆ Water pollution –Prevention and Management
- ◆ Alternative Manufacturing Technologies
- ◆ Environmental Impact Mitigation
- ◆ Economics of Cleaner Production

## PROCEEDINGS

All the papers will go through double blind peer review process and accepted papers will be published as a Scopus indexed special issue book chapter as "Proceedings of International Conference on Innovative Technologies for Clean and Sustainable Development (ICITCSD – 2021)" sponsored by Springer, Switzerland.

## SUBMISSION DEADLINES

- |   |   |                   |
|---|---|-------------------|
| ◆ Submission of abstract                                | - | 10 May 2021       |
| ◆ Intimation of acceptance of abstract                  | - | 15 May 2021       |
| ◆ Receipt of full length paper as per prescribed format | - | 15 June 2021      |
| ◆ Intimation of paper acceptance                        | - | 15 August 2021    |
| ◆ Last date of receipt of application for registration  | - | 15 September 2021 |

## CALL FOR ABSTRACT

- ◆ Academicians, Researchers and Corporate Executers are invited to send papers covering original research work and case studies. The abstracts should not exceed 300 words, 12 point font size, Times New Roman on MS word with single line spacing.
- ◆ The length of full paper should be about 4000 words, 12 point font size, Times New Roman, MS Word, 1.5 line spacing.
- ◆ Papers submitted in PDF format will not be accepted.
- ◆ Tables, illustrations, charts, figures, etc. should be serially numbered and should have a minimum resolution of 300 dpi
- ◆ References should be in the APA style and would be listed on a separate page at the end and should be appropriately indicated in the text of the paper by super scribing the relevant reference number.
- ◆ Plagiarism must be less than 8%.
- ◆ Each paper must contain an undertaking (duly signed by each of the authors) that it is exclusively for the said conference. The format is attached in the brochure.
- ◆ The soft copy of abstract/ full paper should be sent to [conferencenitttr@gmail.com](mailto:conferencenitttr@gmail.com).

## SPONSORSHIPS

◆ Joint collaboration	-	₹ 2,00,000/- (10 free delegates)
◆ Sponsors	-	₹ 1,00,000/- (5 free delegates)
◆ Co-Sponsors	-	₹ 50,000/- (3 free delegates)
◆ Conference Lunch / Dinner	-	₹ 1,00,000/- (5 free delegates)

## ADVERTISEMENT IN PROCEEDINGS

◆ Full color (Front Inside) - ₹ 50,000/-	◆ FULL COLOR (BACK) - ₹ 1,00,000/-	◆ Inside color (Full) - ₹ 30,000/-	◆ Inside Black & White (Full) - ₹ 10,000/-
◆ Full color (Back Inside) - ₹ 50,000/-	◆ Inside color (Half) - ₹ 20,000/-	◆ Inside Black & White (Half) - ₹ 5,000/-	

## REGISTRATION FEE

### International Participants

- ◆ USD - 100\$

### National Participants

◆ Academic/Research Institutes	-	₹ 5,000/-
◆ Research Scholars/Students	-	₹ 3,000/-
◆ Industry	-	₹ 7,000/-

The registration fee covers the proceedings, paper abstracts and publication of the selected papers in peer-reviewed conference proceedings or journals. The registration fee may be paid by cash/demand draft in favour of **International Conference on SCER**, payable at Chandigarh.


## BANK DETAILS

Bank Name	-	UCO BANK
Account No	-	02360110048061
IFSC CODE	-	UCBA0000236
Name on Account	-	INTERNATIONAL CONFERENCE ON SCER

**Note:** Please mention conference name ICITCSD-2021 in the comment section of Transaction.

## WEATHER

In the month of October the weather in Chandigarh will be pleasant. Some of the probable statistics of weather in the month of February are as under:

 25°C max. Day Temperature

 16°C min. Night Temperature

## ABOUT CHITKARA UNIVERSITY

Chitkara University, Himachal Pradesh established in the year 2008 by the Himachal Pradesh State Legislature under the "Chitkara University Act". It is a government-recognized NAAC Accredited University. The School of Engineering & Technology, a constituent institution of Chitkara University, Himachal Pradesh offers industry-relevant engineering programs. The curriculum of these programs is delivered in capacious classrooms with the aid of Information and Communication Technology (ICT) equipment, as well as on traditional black-boards. The School boasts of a well-stocked library and excellent on-campus accommodation facilities for students. At the University, academics are only one crucial cog in the wheel of holistic development of students. Ample encouragement and suitable facilities are provided to students so that they engage in co-curricular and extra-curricular activities. There are chapters of several clubs and societies on campus, as well as facilities for several sports. The various national and international collaborations of Chitkara University ensure that learning opportunities for students are always aplenty. Moreover, student exchange programs ensure that foreign students regularly add to the cultural diversity of our campus, while our students take the Indian culture to foreign universities and institutions. The university also possesses an impressive on-campus recruitment record, with many blue-chip companies regularly visiting, and recruiting from our campus.

## ABOUT NATIONAL INSTITUTE OF TECHNICAL TEACHER'S TRAINING AND RESEARCH

National Institute of Technical Teachers' Training and Research, Chandigarh has been established by Ministry of Human Resource Development, Government of India for the development of Technical Education. The institute has excellent laboratories, library, computer centre and modern reprographic and other production facilities. The institute offers short term courses in the areas of Civil, Mechanical, Electrical and Electronics Engineering, Educational Management, Entrepreneurship Development, Rural Development, Applied Science and Computer Science. Civil Engineering Department offers a variety of professional level courses such as Concrete Quality and Mix Design, R.C.C. Design, Repair and Rehabilitation of Structures, Construction Planning and Management, Construction, Operation and Maintenance of Tube wells etc. in addition to courses in areas like Soil Engineering, Environmental Engineering, Highway Engineering and Irrigation and Hydraulics Engineering, Software Applications etc. Civil Engineering laboratories in the relevant field are well equipped for carrying out laboratory and field experiments.

## CHANDIGARH - THE CITY BEAUTIFUL

Located at 270 km north-west of New Delhi, Chandigarh-The City Beautiful is a well-planned and one of the fastest growing metropolitan cities of modern India, has emerged as an ideal Education and Training Centre in recent times. The city is a hub of many R&D projects, academic and industrial institutions including: SCL, Terminal Ballistic Research Lab, Snow & Avalanche Studies Institute, BEL, Software Technology Park, C-DAC, Medical and Engineering Colleges, Post Graduate Medical Institute, Central Scientific Instruments Organization etc. The city also offers pleasing sights in Rose Garden, Botanical Garden, Topiary Park, Terrace Garden, Rock Garden, Capital Complex, Museum and Art Gallery, Sukhana Lake, Palm Garden etc. The city is well connected with rail, road and air transport with all major cities of India.

## PATRONS

**Dr. Ashok K. Chitkara**  
Chancellor  
Chitkara University

**Dr. Madhu Chitkara**  
Pro Chancellor  
Chitkara University

**Prof. Shyam Sunder Pattnaik**  
Director  
NITTTR, Chandigarh

## CHAIRPERSONS

**Prof. (Dr.) Varinder S. Kanwar**  
Vice Chancellor  
Chitkara University  
Himachal Pradesh, India

**Prof. (Dr.) Sanjay K. Sharma**  
Prof. & Head  
Civil Engineering Department  
NITTTR, Chandigarh

**Prof. (Dr.) Rakesh Wats**  
Professor  
NITTTR  
Chandigarh

## ORGANIZING SECRETARIES

Dr. Amit Goyal Er. Himmi Gupta Dr C Prakasam

## ORGANIZING COMMITTEE

Dr. Ajay Goyal Dr. Abhishek Kanoungo Mr. Nitin Sohal Mr. Gurmohan Singh  
Mr. Akhil Shetty Ms. Dipali Sharma Mr. R Aravinth Mr. Ankush Tanta

## CONTACT PERSONS

- Dr. Amit Goyal**  
National Institute of Technical Teachers' Training & Research, Chandigarh, Phone : 0172-2759728.  
E.mail: amitgoyal@nitttrchd.ac.in
- Er. Himmi Gupta**  
National Institute of Technical Teachers' Training & Research, Chandigarh, Phone : 0172-2759743.  
E.mail: himmigupta.nitttr@gmail.com
- Dr C Prakasam**  
Department of Civil Engineering, Chitkara University, Himachal Pradesh, Phone : 01795 -661080 / 8628800475  
Email: c.prakasam@chitkarauniversity.edu.in

## INTERNATIONAL ADVISORY COMMITTEE

- Prof. (Dr.) Helmus, Frank Peter, University of Applied Sciences, Osnabruck, Germany
- Prof. (Dr.) Sanjay Sukla, Faculty of Health, Engineering & Science, Edith Cowan University, Perth WA 6207 Australia
- Dr. Harpreet Singh Kandra, Federation University, Australia
- Dr. Ajay Shanker, Rinker School of Construction Management, University of Florida, Gainesville, Florida, USA
- Dr. Charles Kibert, Rinker School of Construction Management, University of Florida, Florida, USA
- Dr Susanga Costa, Deakin University, Australia
- Dr. Ramesh Singh, Chapman University, California, USA
- Dr. Muthukrishna Vellaisamy Kumarasamy, University of KwaZulu-Natal, South Africa.

## NATIONAL ADVISORY COMMITTEE

- Dr. Ravi P. Singh, Secretary General, Quality Council of India, New Delhi
- Maj. Gen. Dr. B. Nagarajan, National Centre of Geodesy, IIT Kanpur
- Mr. Pralhad Mujumdar, Chief Executive officer - Concrete Business, ACC Limited
- Sh. Praveen Yadav, AGM, NTPC, Kol Dam Project, Sundernagar
- Sh. Umesh Sharma, Chief Engineer, HIMUDA, Shimla
- Sh. B.C Pandey, President, Ambuja Cements Ltd., Mumbai
- Dr. R.S. Banshtu, NIT Hamirpur
- Sh. R. S Saini, Green Economy Initiative Pvt. Ltd., Zirakpur
- Sh. Surinder Vashisth. S.E., HIMUDA, Dharamshala
- Dr. P.K. Singh, Prof. Civil Engineering Department, IIT, BHU, Banaras
- Dr. Arindam Dey, IIT Guwahati
- Dr. H.K. Sharma, Professor, NIT, Kurukshetra
- Sh. S.K. Singh, Principal Scientist, CSIR - Central Building research Institute, Roorkee
- Sh. Satish Tanwar, Regional Head (Technical Services), Ultratech Cement
- Dr. D.K. Sharma, HP Pollution Control Board, Shimla, H.P.
- Sh. Yatish Kumar, Chief Engineer, ONGC, Mumbai
- Sh. Mukesh Anand, Chief Engineer, UT, Chandigarh
- Dr. Bhoop Singh (Retd.), DST, Govt. of India
- Dr. Mahendra Singh, IIT Roorkee
- Dr. Vikram Vishal, IIT Bombay

## VENUE OF THE CONFERENCE

National Institute of Technical Teachers' Training & Research  
Sector-26, Chandigarh-160019

Chitkara University  
Himachal Pradesh - 174103

*In case of prevailing COVID 19 situation it may be held in virtual mode.*