INTERNATIONAL CONFERENCE ON

INNOVATIVE TECHNOLOGIES
FOR CLEAN AND SUSTAINABLE
DEVELOPMENT

October 14-15, 2021

Organized by

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National Institute of Technical Teachers Training and Research Sector-26 Chandigarh-160019

www.nitttrchd.ac.in



Department of Civil Engineering Chitkara University District Solan Himachal Pradesh 174 103 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

rapid transformation of the SMEs in the region for enhancing Eco-e ciency 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, 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

- Pollution prevention techniques and technologies
- Sustainable buildings
- Innovative Materials and techniques for sustainable concrete construction
- Sustainable construction through Pre Cast Technique
- Sustainability in Road construction Carbon Footprint Management/CDM

- Geospatial Technology for Sustainable & Clean environment

- 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
- 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 31 May 2021 Intimation of acceptance of abstract 5 June 2021 Receipt of full length paper as per prescribed format 30 June 2021 Intimation of paper acceptance 15 August 2021 15 September 2021

Sustainable transport infrastructure & Management Renewable Energy Infrastructure

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 civilconference2021@gmail.com.

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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.

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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.

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