International Conference on

SUSTAINABLE CIVIL ENGINEERING PRACTICES





Department of Civil Engineering Chitkara University | Himachal Pradesh

Pinjore – Barotiwala Highway Atal Shiksha Kunj | Atal Nagar Barotiwala | District Solan | HP 174 103





Department of Civil Engineering National Institute of Technical Teachers' Training & Research

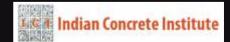
[Ministry of Human Resource Development, Govt . of India] Sector 26, Chandigarh 160 019





Department of Civil Engineering PEC University of Technology (Punjab Engineering College) Sector - 12, Chandigarh -160011

in collaboration with





Venue of the Conference CHANDIGARH | INDIA

Date of the Conference March 2nd - 3rd, 2017

Knowledge Partner



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INTRODUCTION

Increasing population density creates the need to build more, develop more, and transport more, our environment is under continued stress and impact. There is a need to understand that growth cannot come at the risk to resources and ecology. Sustainability can be defined as a set of environmental, economic and social conditions in which all of society has the capacity and opportunity to maintain and improve its quality of life indefinitely without degrading the quantity, quality or availability of natural, economic, and social resources. As the stewards of society's infrastructure, civil engineers must take the lead in applying sustainability to selection, planning, design, and construction.

Historically, sustainability considerations have been approached by engineers as constraints on their designs. But with its growing importance to civil engineering, professionals should move towards incorporating sustainability principles into their daily practice. Sustainable design requires a complete assessment of a design in place and time. Sustainable engineering practice should meet 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. Civil engineers can contribute solutions to sustainable development and green design issues. Commitment to this challenge requires that civil engineers acknowledge their professional obligation, extend their knowledge base, and participate in all levels of policy decisions.

OBJECTIVES

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.

THEMES

- Urban Infrastructure
- Green Materials
- Smart Cities
- Sustainable Construction practices
- Energy Efficiency
- Waste Management
- Sustainable Sanitation
- Leadership in Civil Engineering
- Case Studies
- Climate Change
- Geospecial Technology & Resource Management

- Transport Infrastructure
- Pollution Prevention Technologies and Clean Technology Practices
- Sustainable Project management
- Renewable Energy Infrastructure
- Energy and Climate Protection Strategy
- Water Management Infrastructure
- Environmental stewardship and impact
- Role of education in sustainable civil engineering practices
- Corporate Social Responsibility for Sustainability
 - Global Warming

CALL FOR PAPERS

- 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.
- 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.
- One hard copy should be sent to the conference convener along with a soft copy. The soft copy should be sent to seminar.civil7@gmail.com.

PROCEEDINGS

All papers accepted for presentation in the Conference will be published in the proceedings having ISBN Number. Few selected papers will be published in the National Journal of Engineering of Technology Education published by National Institute of Technical Teachers Training & Research (NITTTR) and in the Journal of Today's Ideas Tomorrows Technologies, published by Chitkara University.

SUBMISSION DEADLINES

Submission of abstract
Intimation of acceptance of abstract
Receipt of Full length Paper as per prescribed format
Last date of receipt of Application for Registration
25th November, 2016
30th December, 2016
15th January, 2017

SPONSORSHIPS

Joint collaboration
Sponsors
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₹50,000/-(10 free delegates)
₹30,000/-(6 free delegates)
₹15,000/-(3 free delegates)

Proceedings - ₹1,00,000/ Conference Lunch/Dinner - ₹50,000/-

ADVERTISEMENT IN PROCEEDINGS

Full color page - ₹10,000/-Half color page - ₹7,500/-Halfblackpage- ₹3,000/-

Full black page - ₹5,000/-

REGISTRATION FEE

International Participant: USD - 100\$

National Participant

Academic/Research Institutes- ₹2000/-Research Scholars/Students - ₹ 1000/-Industry - ₹ 5000/-

The registration fee covers the proceedings, conference, kit, refreshment and lunch during the days of the Conference. The registration fee may be paid by cash/demand draft in favour of

International Conference on SCEP, Payable at Chandigarh. Accommodation can be provided in the institute hostel for delegates on request on payment. Participant are requested to ask for accommodation in advance latest by 15th February 2017

WEATHER

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

25°C max day temperature

12°C min night temperature

ABOUT CHITKARA UNIVERSITY

Chitkara University, Himachal Pradesh was established in the year 2008 by the Himachal Pradesh State Legislature under the "Chitkara University Act". It is a government-recognized university, is included in the list of universities maintained by the University Grants Commission, and has the right to confer degrees as per the Sections 2(f) and 22(1) of the UGC Act, 1956.

The Chitkara 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 PEC UNIVERSITY OF TECHNOLOGY

The PEC University of Technology, Chandigarh was orginally established as Mugalpura Engineering College at Lahore (now in Pakistan) on November 9, 1921. The name of the college was later changed to Maclagan Engineering College and its started functioning under the name on March 19, 1924. In the year 1931, the college got affiliated to Punjab University, Lahore. After partition in 1947, the college was shifted to Roorkee (India) and was renamed as East Punjab College of Engineering. In the year 1950 the word East was dropped and it came to know by its present name - Punjab Engineering College. Towards the end of December 1953, the college shifted to its present campus in Chandigarh to function under Govt. of Punjab. In 1966, with the formation of Union Territory of Chandigarh, the college same under control of Govt. of India through Chandigarh Administration. In October 2003, the Govt. of India notified the Punjab Engineering College as a Deemed to be University and thereafter it became known as Punjab Engineering College (Deemed University). In 2009, the Board of Governors renamed the institution as PEC University of Technology. In 1994 this institution was adjudged the best technical college in India by the National Foundation of Engineers. It occupies an area of 146 acres. Up to 1962, the college comprised of engineering departments of Civil, Electrical and Mechanical Engineering. Thereafter the college expanded & five newdepartments in the fields of Aeronautical Engineering, Electronics & Electrical Communication Engineering, Metallurgical Engineering, Production Engineering and Computer Science Engineering were added gradually. Recently a new department of Information & Technology has been added. In the year 1957, Highway Engineering was added as the first postgraduate course in the college. Gradually other post-graduate courses were subsequently added. Presently there are eleven post-graduate courses leading to Masters of Engineering degree in Highways, Structures, Hydraulics and Irrigation, Rotodynamic Machines, Electrical Power Systems, Environmental Engineering (Interdisciplinary), Electronics Metallurgical Engineering and C.I.M. Facilities for post-graduate studies exist for regular as well as for part time students. The college has facilities for research work leading to the award of Ph.D. degree in engineering in certain selected fields of different disciplines. The college also offers consultancy services in different disciplines.

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 Tubewells 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, City Beautiful Chandigarh, 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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International Conference on Sustainable Civil Engineering Practices (NCSCEP)

March 2nd - 3rd, 2017 at Chandigarh

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Phone (With STD Code) : Mo	bile :
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Whether presenting a paper: Yes No	
If yes, kindly indicate the title	
Whether Accommodation Needed: Yes No	
Arrival/Departure Details:	
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Details of Registration Fee: DD/Cheque Cash	
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Amount in Rs.	
Name of Bank	
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Signature of the Applicant	Signature of the Sponsoring Authority with office seal
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International Conference on Sustainable Civil Engineering Practices (NCSCEP)

March 2nd - 3rd, 2017 at Chandigarh

I declare that the paper entitled "
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submitted for the International Conference on "Sustainable Civil Engineering Practices
(NCSCEP)" held by the Civil Engineering Department - PEC University of Technology
Chandigarh, Civil Engineering Department - National Institute of Technical Teachers
Training and Research, Chandigarh and Civil Engineering Department - Chitkara University
Himachal Pradesh from March 2nd-3rd, 2017 at Chandigarh is work carried out by me/under
me. Due acknowledgment has been made for references from other sources. The paper has
not been published elsewhere.
Dated: [Author(s)]
Place: