

International Conference on Sustainable Civil Engineering Practices (Fourth Announcement)

July 19 - 20, 2019

Venue of Conference

Hotel Homotel
Chandigarh, INDIA

www.icscep.com



Organised by



**CHITKARA
UNIVERSITY**

HIMACHAL PRADESH

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



Discipline of Civil and Environmental Engineering
School of Engineering
Edith Cowan University, Joondalup, Perth
Australia

Sponsored by



सत्यमेव जयते
Department of Science and Technology
Ministry of Science and Technology
Government of India



Creating an Ecosystem
for Quality



Co-sponsored by



The Joy Of Growing Together Parwanoo

Mountain Steels Pvt Ltd, Baddi

J B Rolling Mills Pvt Ltd, Kala Amb

www.chitkarauniversity.edu.in

www.ecu.edu.au

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. Civil engineers 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 on 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. Civil engineers can contribute solutions to sustainable development by adopting cleaner technology and green design principles. 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

This international conference aims at establishing the long-term linkages between the user industries and the providers of clean technologies and sustainable materials for a rapid transformation of the small and medium-sized enterprises (SMEs) with achievement of their eco-efficiency and strength through clean technology interventions. Intended participation aims at about 60 SMEs and over 30 clean technology experts from different areas such as academics, consultancy, equipment manufacturers and suppliers and environmental technology apart from regulators, administrators and students. The conference shall serve as a platform to create awareness and appreciation among academicians, scientists, researchers and practitioners from various disciplines and sectors about developing and implementing sustainable practices and technologies that minimize the impact on our environment. Deliberations shall be done on new initiatives in latest technologies in the field of infrastructure development and maintenance. This will help in formulating concrete strategies with optimal utilization of available resources for developing these technologies, and consolidating the suggestions, strategies and recommendations made during the conference and disseminating the knowledge on the conference themes. It is expected that more than 300 participants will attend this conference.

THEMES

- ◆ Clean technologies
- ◆ Pollution prevention techniques and technologies
- ◆ Global warming
- ◆ Eco & green materials in construction
- ◆ Sustainable buildings
- ◆ Smart cities & villages
- ◆ Sustainability in road construction
- ◆ Alternative manufacturing technologies
- ◆ Economics of cleaner production
- ◆ Case studies on cleaner production in industries
- ◆ Sustainable transport infrastructure & management
- ◆ Architectural interaction for sustainable built environment
- ◆ Innovative materials and techniques for sustainable concrete construction
- ◆ Geological and rock engineering
- ◆ Climate change
- ◆ Sustainable construction practices
- ◆ Zero energy buildings
- ◆ Water pollution – prevention and management
- ◆ Carbon footprint management/CDM
- ◆ Environmental impact mitigation
- ◆ Waste minimization & management
- ◆ Sustainable infrastructure
- ◆ Renewable energy infrastructure
- ◆ Sustainable construction through precast technique
- ◆ Use of Remote Sensing and GIS Technology
- ◆ Disaster Management

PROCEEDINGS

All papers accepted for presentation in the Conference will be published as e-Proceedings with ISBN, and selected papers may be awarded and published in the Springer book. Some selected papers in significantly extended form will be published in the International Journal of Geosynthetics and Ground Engineering as per its review and other publication policies.

SUBMISSION DEADLINES

- | | | |
|---|---|------------------|
| ◆ Submission of abstract | - | 15 December 2018 |
| ◆ Intimation of acceptance of abstract | - | 20 December 2018 |
| ◆ Receipt of full length paper as per prescribed format | - | 31 January 2019 |
| ◆ Last date of receipt of application for registration | - | 25 March 2019 |

CALL FOR ABSTRACT

- ◆ Academicians, Researchers and Corporate Executers are invited to send abstract 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.
- ◆ Soft copy of the abstract should be sent to the conference convener at the following email addresses:

varinder.kanwar@chitkarauniversity.edu.in, s.shukla@ecu.edu.au and sanjaykshukla1@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/-

ADVERTISEMENT IN PROCEEDINGS

FULL COLOR (BACK) - ₹ 1,00,000/-

◆ Full color (Front Inside) - ₹ 50,000/-	◆ 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 Participant: USD - 200\$

National Participant

Academic/Research Institutes- ₹ 4,000/-

Research Scholars/Students - ₹ 1,500/-

Industry- ₹ 10,000/-

The registration fee covers the e-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 SEP**, Payable at Chandigarh. Registration fee can also be paid by online payment gateway on conference website <http://icscep.com/registration/>.

WEATHER

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



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 NAAC Accredited University. 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 ECU

Edith Cowan University (ECU) provides the ideal learning environment for people who want to reach their potential. Located in Western Australia, our industry-relevant teaching and research, supportive study environment and award-winning facilities enable ECU students to do more than just survive in this world – they thrive in it. Established in 1991, ECU took the opportunity to reshape the way higher education is delivered in a distinctive and inspiring campus environment. ECU courses are developed in consultation with industry, and teaching staff have extensive industry experience and networks. It's why ECU students can expect placement opportunities, fieldwork, practicums and networking events as part of their studies. This approach has been rewarded with five-star ratings for teaching quality over the past eleven years, along with consistently high ratings for overall education experience and skills development, as reported in the Good Universities Guide. ECU's world-class research strives to make a difference to the community in Western Australia and beyond. ECU focuses on working with our communities, business and government organisations to solve real-world problems. The University was named after Edith Dircksey Cowan, the first woman to be elected to an Australian Parliament. Her life was dedicated to the belief that education was the key to growth, change and improvement in society. Her example informs ECU's values as we pride ourselves in developing capable graduates who lead engaged and productive lives in the communities in which they live and work.

CHANDIGARH – THE BEAUTIFUL CITY

Located at 270 km north-west of New Delhi, Beautiful Chandigarh City, 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

Professor Steve Chapman CBE

Vice-Chancellor and President, Edith Cowan University

CHAIR PERSONS

Dr. Varinder S. Kanwar

Professor cum Vice Chancellor

Chitkara University

Himachal Pradesh, India

Dr. Sanjay Kumar Shukla

Founding Editor-in-Chief, Int. J. of Geosynthetics and Ground Engineering

Program Leader, Discipline of Civil and Environmental Engineering

School of Engineering, Edith Cowan University, Joondalup, Perth, Australia

ORGANIZING SECRETARIES

Dr. Uma Malik

Dr. CPrakasam

ORGANIZING COMMITTEE

Mr. Akhil Shetty

Ms. Dipali Sharma

Mr. Abhishek Kanoungo

Ms. Aisha Sharma

Ms. Monika Sharma

Mr. Gurmohan Singh

Mr. Nitin Sohal

Mr. Pankaj

Mr. R Aravinth

CONTACT PERSONS

1. **Dr. Varinder S. Kanwar**, Chitkara University, HP Phone Nos. 01795-661011, 661002 (O), Email: varinder.kanwar@chitkarauniversity.edu.in
2. **Dr. Sanjay Kumar Shukla**, School of Engineering, Edith Cowan University, Joondalup, Perth, Australia
Email: s.shukla@ecu.edu.au; sanjaykshukla1@gmail.com

INTERNATIONAL ADVISORY COMMITTEE

1. Dr. Helmus Frank Peter, University of Applied Sciences, Osnabruck, Germany
2. Dr. Harpreet Kandra, Federation University, Australia
3. Dr. Ajay Shanker, Rinker School of Construction Management, University of Florida, Gainesville, Florida, USA
4. Dr. Charles Kibert, Rinker School of Construction Management, University of Florida, Gainesville, Florida, USA
5. Dr. Krishna R. Reddy, University of Illinois at Chicago, Chicago, USA
6. Dr. Bujang B.K. Huat, Universiti Putra Malaysia, Serdang, Malaysia
7. Dr. Sabatino Cuomo, University of Salerno, Fisciano, Italy
8. Dr. Mohamed A. Meguid, McGill University, Montreal, Canada
9. Dr. Sanjay Nimbalkar, University of Technology Sydney, Australia
10. Mr. Rohitesh Prasad, Fiji National University, Fiji
11. Mr. Sateesh Pisini, Fiji National University, Fiji
12. Dr. Afshin Asadi, International College of Auckland, Auckland, New Zealand
13. Dr. Ioannis N. Markou, Democritus University of Thrace, Komotini, Greece
14. Dr. Le Gia Lam, Can Tho University, Can Tho, Vietnam

NATIONAL ADVISORY COMMITTEE

1. Dr. Siby John, Punjab Engineering College (Deemed To Be University), Chandigarh
2. Dr. Sanjay Kumar Sharma, National Institute of Technical Teachers' Training and Research, Chandigarh
3. Dr. Ravi P. Singh, Secretary General, Quality Council of India, New Delhi
4. Dr. B. Nagarajan, Visiting Professor, IIT Kanpur
5. Sh. Umesh Sharma, Chief Engineer, HIMUDA, Shimla
6. Sh. Surinder Vashisth. S.E., HIMUDA, Dharamshala
7. Dr. P. K. Singh, Prof. Civil Engineering Department, IIT, BHU, Varanasi
8. Dr. D. K. Sharma, HP Pollution Control Board, Shimla
9. Dr. Ashutosh Trivedi, Delhi Technological University, Delhi
10. Dr. Yogendra Singh, IIT Roorkee, Roorkee
11. Dr. Utpal Kumar Das, Tezpur Central University, Tezpur
12. Dr. C. H. Solanki, SVNIT, Surat
13. Dr. Chava Srinivas, VR Siddhartha Engineering College, Vijayawada
14. Dr. Sreevalsa Kolathayar, Amrita Vishwa Vidyapeetham, Coimbatore
15. Dr. Anil Kumar Sharma, Amrita Vishwa Vidyapeetham, Coimbatore
16. Dr. M. Muthukumar, VIT University, Vellore
17. Dr. B. Hanumantha Rao, Indian Institute of Technology, Bhubaneswar