INNOVATIVE TECHNOLOGIES FOR CLEAN AND SUSTAINABLE DEVELOPMENT

February 19 - 21, 2020





Spark... The Change

Venue: National Institute of Technical Teachers Training and Research Chandigarh, India

Presenter

The conference in cooperation with:











In association with Maharaja Agrasen University, Baddi – 174 103, India

Host Organization: National Institute of Technical Teachers Training and Research

Ministry of Human Resource Development, Govt. of India

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 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

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 the 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 Track: Clean Technology

- Air quality improvement
- Bituminous materials
- Carbon footprint management
- Case studies on cleaner production
- Clean and sustainable development
- Construction engineering management, materials, and technology
- Economics of cleaner production
- Energy efficiency, energy harvesting
- Geo-materials
- Hybrid materials
- Innovative building materials
- Innovative recycling method
- Life cycle assessment
- Management renewable energy infrastructure
- Novel testing techniques and applications
- Pollution prevention techniques and technologies
- Renewable energy
- Smart cities & villages
- Sustainability
- Sustainable buildings and construction
- Sustainable transport infrastructure

- Sustainable water resources management
- Waste reduction technique

Track: Sustainable Materials Science

- Clean technologies
- Pollution prevention
- Eco & green materials in construction
- Sustainable buildings
- Zero energy buildings
- Water pollution prevention and management
- Sustainability in road construction
- Environmental impact mitigation
- Economics of cleaner production
- Waste minimization & management
- Sustainable infrastructure
- Renewable energy infrastructure
- Innovative materials for sustainable construction
- Sustainable construction through the precast technique
- Sustainable concrete construction
- Material design and materials science
- Durability and sustainability of concrete
- Performance & sustainability of special concrete
- Sustainable construction materials

PROCEEDINGS

The conference articles will be peer-reviewed. The proceedings will be indexed for inclusion in the major scientific databases, Scopus and CPCI (Thomson Reuters, Web of Science). The accepted and presented papers will be published in the following two tracks:

Track: Clean Technology

Springer - RILEM Bookseries (ISSN: 2211-0844) book, available on SpringerLink.

Track: Sustainable Materials Science

Elsevier - Materials Today: Proceedings (ISSN: 2214-7853) journal, available on ScienceDirect.

Special Issue with ACI Publication

This Conference will without any doubt, be a greater technical extravaganza and we have additionally tied up with world-renowned ACI Publications: ACI Materials Journal and Concrete International to print some of the selected papers received for our Conference, after further scrutiny by an International Panel.

Abstracts and full-length paper should be submitted in electronic form. Submission guidelines are available on the conference website.

SUBMISSION DEADLINES

Last date for submission of abstract – 20th November 2019 (extended) Intimation of acceptance of abstract – 25th November 2019 Receipt of Full-length Paper as per prescribed format – 30th November 2019 Acceptance of manuscript – 15th January 2020

VENUE AND LANGUAGE

National Institute of Technical Teachers Training and Research, Chandigarh, India The Language of the conference is English.

REGISTRATION FEE

The registration fee covers the proceedings, conference kit, coffee/tee breaks, lunches, and conference dinner.

Type of Delegates	International (US\$)	National (INR)	*On or before 31 December 2019
Regular Participant	450	12,000	 **Countries (Low GDP) eligible for a subsidized
Regular Participant (Early-bird)*	400	10,000	fee.
Regular Participant with Discount (for members of supporting organizations)	350	8,000	 List of low GDP countries are available on the conference website
Regular Participant with Subsidy (Low GDP** countries)	250	-	 Credit card facility is available for spot
Student Participant	200	7,000	registrations. (Master / Visa / American Express /
Student Participant (Subsidized / Discount) / Accompanying Person	150	6,000	Diners Club cards preferred).

SPONSORSHIPS

Partnering Opportunity				
Category	Fees (INR)*	Logo on	Complementary Delegates	Presentation Time (Minutes)
Joint collaboration	10,00,000	Marketing Material	20	15
Sponsors	5,00,000	Marketing Material	10	10
Co-Sponsors	2,50,000	Marketing Material	05	/-
Congress Dinner	2,00,000	Marketing Material	03	/
Congress Lunch	1,50,000	Marketing Material	02	/
Kit Sponsor	1,00,000	Marketing Material	01	

Exhibition

One Stall Indian Exhibitor INR 50,000* Foreign Exhibitor US\$ 1500*

Advertisements

	INR*	US\$*
Front Inside Cover	1,00,000	2,000
Back Inside Cover	1,00,000	2,000
Full Page Colour	25,000	500
Half Page Colour	15,000	300

ACCOMMODATION

Limited accommodation is available in the Institute Guest House / Hostel on payment. Participants are requested to ask for accommodation in advance latest by 1st January, 2020. A list of hotels providing discounts for the participants will be uploaded on website. Registration fee do not include accommodation charges.

WEATHER

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

20°C max day temperature

12°C min night temperature

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.

^{*} Excluding Taxes

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Further information can be

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