SMET-2024

An International Conference on Sustainable Materials, Environment and Technologies under climate change scenario is being organized by the Department of Civil Engineering, National Institute of Technology, Kurukshetra. The need of the era is to use sustainable technologies. Sustainable development is the idea that human societies must live, and meet their needs, without compromising the ability of future generations to achieve their requirements. The conference aims to stimulate the exchange of information on current research, development and sharing of relevant experience in the specific areas of Civil Engineering. The conference shall provide a useful forum to academicians, technologists, entrepreneurs and the research scholars in respective domain to share ideas, for further benefit of the mankind at large.

KURUKSHETRA

Kurukshetra is described as *Dharamkshetra*, a place of historical and religious importance. The battle of Mahabharata was fought here. Lord Krishna preached the philosophy of '*Karma*', as enshrined in the holy book 'Srimad Bhagwad Gita'. It is one of the premier pilgrimage centers attracting devotees all round the year. Kurukshetra is very well connected by rail (Delhi-Ambala section), by road (NH44, connecting Delhi-Chandigarh-Amritsar) (Delhi-160 km and Chandigarh-80 km) and by air. NIT Kurukshetra campus is located at about 10 km from Pipli bus stand located on NH44, and about 6 km from Kurukshetra railway station.

NIT KURUKSHETRA

NIT Kurukshetra, formerly known as Regional Engineering College Kurukshetra, was established in 1963. It was conferred the NIT status on June 26, 2002. The Institute offers B.Tech., M.Sc., M.Tech. and Ph.D programs in various disciplines of engineering, and MBA & MCA, with an annual intake of about 1600 students. Institute also provides excellent facilities for advanced research in the emerging areas of Engineering, Science and Technology. The institute has well qualified and dedicated faculty along with supporting staff, laboratories and other infrastructure. The infrastructure is geared to enable the institute to produce technical personnel of high quality.

DEPARTMENT OF CIVIL ENGINEERING

Department of Civil Engineering is a pioneering department of the Institute. Over the years, the department has progressed at rapid pace with development in the spheres of infrastructure facilities and academic programs. The department has experienced faculty, well-equipped laboratories in allied specialization fields. The aim of the department is to attain the status of leading world-class centres for teaching and research, responsive to changing needs of industry with emphasis on innovation, technological development, entrepreneurial and leadership competencies, professional and human values and socioeconomic uplifting of the community.

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Information Brochure



International Conference on

Sustainable Materials, Environment and Technologies under climate change scenario

(SMET-2024)

(July 25-27, 2024) (Hybrid Mode)



Organized by

Department of Civil Engineering National Institute of Technology Kurukshetra - 136119, Haryana (INDIA)

SCOPE OF THE CONFERENCE

SMET-2024, an International Conference on **Sustainable Materials, Environment and Technologies under climate change scenario** in various areas of Civil Engineering, provides a forum for presentation of technological advances, latest research and policies in theoretical, experimental and applied aspects of sustainable developments of the field. High-quality full-length papers, which are not under review, and have not already been published or accepted for publication or communicated elsewhere, are solicited on the topics underlined and within the scope of conference theme and are expected to be communicated for possible publication.

CONFERENCE THEMES

The themes for **SMET-2024** include but not limited to the following tracks in Civil Engineering.

Structural Engineering
Geotechnical Engineering
Environmental Engineering
Transportation Engineering
Remote sensing and GIS Applications
Water Resource Engineering
AI and ML Applications in Civil Engineering

CONFERENCE TRACKS

TRACK-1: Structural Engineering

- Innovative Structural Design and Analysis
- Advancements in Material Science and Technology
- Seismic Design and Retrofitting
- Structural Health Monitoring and Condition Assessment
- Sustainable and Green Buildings
- Bridge Engineering and Infrastructure Resilience

TRACK-2:Geotechnical Engineering

- Advancements in Soil Mechanics and Geotechnical Analysis
- Geotechnical Challenges in Mega Infrastructure Projects
- Slope Stability and Landslide Mitigation
- Ground Improvement Techniques
- Geotechnical Aspects of Foundation Design
- Geotechnical Eartquake Engineering

TRACK-3: Environmental Engineering

- Water Quality and Treatment Technologies
- Wastewater Treatment and Resource Recovery
- Air Pollution Control and Air Quality Management
- Solid Waste Management and Circular Economy
- Contaminated Site Remediation and Brownfield Redevelopment

• Environmental Impact Assessment and Sustainable Development

TRACK-4: Transportation Engineering

- Pavements and Materials
- Traffic Flow Theory, Operations and Facilities
- Transport Planning, Policy, Economics and Project Finance
- Travel Behaviour and Transport Demand
- Sustainability in Transportation
- Transportation Safety
- Transport and Mobility Networks
- Emerging Travel Technologies (ITS And IOT)
- Other Modes of Transportation and Pedestrian

TRACK-5: Remote Sensing and GIS Applications

- Geospatial Data Collection and Integration
- Machine Learning in Geospatial Analysis
- Geospatial Data Visualization
- GIS-Based Environmental Monitoring and Management

TRACK-6: Water Resources Engineering

- Sustainable Water Management Strategies
- Climate Change Impacts on Water Resources
- Integrated Water Resources Planning and Management
- Hydraulic Engineering and Infrastructure Design
- Ecohydrology and Watershed Management
- Urban Water Infrastructure and Stormwater Management
- Water Quality Assessment and Remediation

TRACK-7: AI and ML Applications in Civil Engineering

 Applications of AI/ML in mitigating climate change issues related to energy efficient buildings, optimizing transportation systems leading to reduction in greenhouse gases, developing sustainable cities, natural resource management, infrastructure design and safety management

SUBMISSION GUIDELINES & INDEXING

Faculty members/research scholars/scientists from India and abroad are invited to submit original unpublished research on the topics related to the conference. Research papers should present novel perspectives within the general scope of the conference. Literature reviews/survey papers will only be considered if they present a new perspective or clear benefit to the field and define the field in a new way or highlight exciting new technologies or areas of research.

The manuscript must adhere to the conference template format. The conference paper template is available on the conference website (https://smet.org.in). The papers received will be peer-reviewed before being accepted for presentation.

The registered and presented papers would be submitted for publication in Scopus indexed proceedings or special issues with or without APC. The same would be updated on conference website.

REGISTRATION INFORMATION

It is mandatory for at least one author of an accepted paper to register for the paper to appear in the conference proceeding. The author presenting the second and subsequent papers will get discount, if he/she registers with the same author's name and e-mail ID. Co-authors must register by paying full registration fee, in case they want to attend and get presentation certificate as conference delegate.

The application should be made using the registration form and should accompany registration fee as given below:

Doutisinant satagemy	Registration fee*	
Participant category	Indian (INR)	Foreign
Students/Research	1,500/- offline	\$50 offline
Scholars	1,000/- online	\$25 online
Academicians/faculty	2,500/- offline	\$80 offline
members	2,000/- online	\$30 online
Industry persons/R&D	3,000/- offline	\$100 offline
Professionals/Scientists	2,500/- online	\$30 online
Additional paper per	1,000/- offline	\$30 offline
author	500/- online	\$20 online

* Registration fee is non-refundable Late Fee: Rs. 500/- or \$10 after 5th July 2024

For Indian Authors, payment will be made through **SBI iCollect** (Payment details will be displayed on conference website) or NEFT in the following account:

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Bank Name: State Bank of India Bank Branch: SBI, NIT Kurukshetra Account Type: Saving Account

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IMPORTANT DATES

- Last date for submission of paper: 31st May, 2024.
- Intimation of acceptance (on website or by email): on or before 15th June, 2024.
- Submission of camera-ready paper: 30th June, 2024
- Registration: 1st July 5th July 2024
- Last date of registration with late fee: 10th July 2024.

SPONSORSHIP

The organizing committee of **SMET-2024** invites companies and organizations to advertise themselves during the conference. Sponsors can showcase their service, technology and solutions to the leading technologists in India. The conference also provides extensive networking opportunities, which can be fully utilized by availing the complimentary registrations awarded to the sponsors. The conference presents sponsorship opportunity in one of the following sponsor categories:

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Sponsor	Amount	No. of free	Displayed on
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71	` ′		conference
Diamond	1,00,000	5	Yes
Gold	75,000	4	Yes
Silver	50,000	3	Yes
Bronze	25,000	2	Yes

Apart from above, all sponsorship categories will attract the following:

- Display of the sponsor's logo on the homepage of the conference website and other official documents of the conference.
- Inclusion of brochure/pamphlet in the registration kit of the conference delegates.
- Acknowledgment during the inaugural session.
- Colour advertisement of sponsor details/product details in the abstract book for Diamond, Gold and Silver sponsors.

Sponsorship amount can be paid in the Director's account mentioned in registration information.

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