









World Space Week- 2024

4 October 2024 to 10 October 2024

4th International Conference on Environmental Management (ICEM 2024)

Focal Theme: "Space for sustainability: Bridging the Gap with Space Technology"

04 (Friday) - 07 (Monday) October, 2024 Hyderabad, INDIA

Organized by

CENTRE FOR ENVIRONMENT-

DST- SATELLITE CENTRE FOR POLICY RESEARCH
University College of Engineering, Science and Technology

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
Hyderabad (Telangana), 500085, India

In Association with

Indian Society of Geomatics (ISG) -Hyderabad Chapter
International Society for Digital Earth – (ISDE) – India Chapter
Australia India Water Centre (AIWC)
Western Sydney University, Australia



Release of First Circular by Dr S.P.Somanath, Chairman ISRO, Government of India



www.icem2024jntuh.org



On behalf of University College of Engineering Science and Technology, JNTUH, I am delighted to extend a warm invitation to all environmental enthusiasts, experts, and stakeholders to the 4 International Conference on Environmental Management. It is with great pleasure that we welcome you to join us in exploring innovative solutions and fostering collaboration for sustainable environmental practices and bridging the gap with Space Technology.

We are proud to conduct and host this esteemed gathering, where we will delve into topics ranging from climate change, biodiversity conservation, waste management, renewable energy, to sustainable development. Our distinguished speakers, experts in their respective fields, will present cutting-edge research, best practices, and success stories that inspire positive change.

This conference serves as a platform for networking, collaboration, and the exchange of ideas that will contribute to the global effort in environmental preservation. I am confident that your presence and active participation will enhance the richness of discussions and contribute to the success of this event.

Please save the dates and register early to secure your place among the pioneers shaping the future of environmental management. We look forward to your enthusiastic participation and contributions to making this conference a milestone in our collective journey towards a more sustainable and resilient planet.

We welcome you all to JNTUH and hope that this conference will act as a medium for all of us present here to ponder upon the topic of discussion, challenge us to strive towards it and inspire us at the same time.

Thank you for your commitment to environmental stewardship. Together, let us chart a course towards a greener, healthier, and more sustainable future.

Sincerely,

Dr.K.Vijay Kumar Reddy

Rector, UCEST JNTUH



Dear Participants,

Season's Greetings and Happy New Year 2024. Sincerely, Dr. Prakash Chauhan Director, NRSC President, ISG Dear Participants, It is my distinct pleasure to extend a heartfelt welcome to each of you as we embark on the exhilarating journey of the 4th International Conference on Environmental Management with a focal theme: "Space for Sustainability: Bridging the Gap with Space Technology", to mark a momentous occasion that aligns with the joyous celebration of India's First National Space Day - 23rd August 2024.

As we gather for this significant conference, hosted by our esteemed institution, Jawaharlal Nehru Technological University Hyderabad, Hyderabad, Telangana, India, we find ourselves at the crossroads of technological innovation, scientific exploration, and sustainable development.

The theme "Space for Sustainability: Bridging the Gap with Space Technology "serves as a beacon, guiding us to explore the boundless possibilities that space technology offers for creating a more sustainable and inclusive future.

India's First National Space Day adds a unique layer of significance to our deliberations, providing us with an opportunity to reflect on the monumental achievements of our nation in the field of space exploration. From launching satellites that contribute to communication and weather forecasting to exploring the cosmos with ambitious missions, India has consistently demonstrated its commitment to pushing the frontiers of space technology.

As the President of Indian Society of Geomatics, I am honored to witness the convergence of brilliant minds from around the globe who share a common passion for space exploration and its potential for sustainable development. Our collective efforts during this conference will undoubtedly contribute to the global discourse on leveraging space technology to address the challenges of our ever-changing world.

I encourage each participant to actively engage in the insightful discussions, share your research findings, and foster collaborations that transcend borders. Together, let us explore how space technology can be harnessed to build a more sustainable, resilient, and interconnected future

May this conference be a source of inspiration, knowledge-sharing, and the beginning of lasting partnerships. I extend my warmest wishes for a successful and enriching experience during the India's First National Space Day celebration. Welcome, and let the journey begin!

Sincerely,

Dr. Prakash Chauhan
Director,
NRSC President, ISG

From ISG Chapter Desk





Dear colleagues,

We extend a warm invitation to you from the Centre for Environment, UCEST at Jawaharlal Nehru Technological University Hyderabad, India. We are delighted to invite you to participate in the 4th International Conference on Environmental Management (ICEM2024), scheduled to take place in Hyderabad, India from October 4th to 07th, 2024.

In celebration of India's First National Space Day in 2024 and World Space Week 2024, the 4th ICEM 2024 is themed "Space for Sustainability: Bridging the Gap with Space Technology." This theme serves as a collective acknowledgment of India's noteworthy achievements and advancements in the field of space exploration.

India's First space achievement adds a unique layer of significance to our discussions, providing an opportunity to reflect on the monumental achievements of our nation in space exploration. It stands as a testament to the visionaries who laid the foundation for India's space program and the dedicated professionals who have turned those visions into reality. Success stories like the Mars Orbiter Mission, Chandrayaan missions, and the deployment of an ever-expanding constellation of satellites have not only garnered global acclaim but have also significantly contributed to the advancement of science and technology.

This International Conference is organized in collaboration with esteemed partners, including the Indian Society of Geomatics (ISG) - Hyderabad Chapter, International Society for Digital Earth (ISDE) – India Chapter, Australia India Water Centre, and Western Sydney University.

As the Conference Secretary, We are honored to witness the convergence of brilliant minds from around the globe, sharing a common passion for space exploration and its potential for sustainable development. The collective efforts during this conference will undoubtedly contribute to the global discourse on leveraging space technology to address the challenges of our ever-changing world.

May this National Space Day mark the beginning of a new era, where the spirit of exploration propels us forward, collaboration knows no bounds, and the limitless possibilities of space inspire us to reach new heights. Welcome to this momentous occasion, and together, let us make this conference a resounding success as we celebrate the First National Space Day of India.

We encourage you to circulate this information among your associates, research communities, and networks. Your efforts are highly appreciated. We eagerly anticipate your presence in Hyderabad, India, for what promises to be a meaningful and enriching conference.

Thank you and looking forward to seeing you in October 2024.

"Look at the sky. We are not alone. The whole universe is friendly to us and Conspires only to give the best to those who dream and work."

Dr.APJ Abdul Kalam

Sincerely yours,

Dr. K. Mruthyunjaya ReddyISG Hyd Chapter Chairman
Former Group Director (PPEG) NRSC

Dr.T.Vijaya Lakshmi ISG Hyd Chapter Secretary & Conference Secretary- ICEM2024

Conference Themes

The conference program groups together presentations along similar themes to facilitate knowledge sharing and network building.

Topics of interest for submission include, but are not limited to:

Earth Observation for Environmental Sustainability:

- Mapping Climate Vulnerability and Risk
- GeoSpatial Tools for Climate Change Adaptation Planning
- Remote Sensing Applications in Climate Impact Assessment
- Environmental Monitoring and Management through GeoSpatial Technologies
- Disaster Risk Reduction and Response
- Biodiversity and Ecosystem Monitoring

Space Technology for Sustainable Agriculture:

- Precision Farming with Satellite Data
- Monitoring and Management of Water Resources
- Remote Sensing for Crop Health and Yield Prediction

> Space-Based Solutions for Global Connectivity and Digital Inclusion:

- Satellite Internet and Broadband Access
- Bridging the Digital Divide through Space Technology
- Innovative Satellite Communication Technologies

Space for Sustainable Urban Planning:

- Satellite Data in Urban Infrastructure Development
- Monitoring and Mitigating Urban Heat Islands
- Smart Cities and Space Technology Integration

Satellite-Based Environmental Surveillance:

- GeoSpatial Approaches to Pollution Tracking and Control
- Geo AI for Sustainable Resource Management

Al-driven Analysis of Geospatial Data for Resource Optimization:

- Geo AI in Precision Agriculture and Water Management
- Machine Learning for Geospatial Prediction Models
- Immersive Geospatial Technologies for Public Awareness and Education

Digital Twins in Geospatial Technology for Sustainable Development:

- Creating Digital Twins for Urban Planning
- Real-Time Monitoring of Infrastructure through Digital Twins
- Integrating Digital Twins in Disaster Preparedness and Response
- GeoSpatial Data Governance and Ethics for Sustainable Development
- Privacy and Security Concerns in GeoSpatial Data Usage
- Ethical Considerations in Geo AI and Machine Learning
- International Collaboration in GeoSpatial Data Sharing for Global Development

International Collaboration for Space Sustainability:

- Sustainable Space Exploration and Utilization
- Space Mining and its Environmental Impacts
- Policy and Governance for Sustainable Space Activities
- Space Debris Mitigation Strategies
- International Partnerships for Space Exploration and Protection
- Geospatial Policy

Ocean & Atmospheric Studies:

- Coastal Zone Management
- Ocean Resources
- Blue Economy
- Harnessing Tidal Energy
- Fishery and Environmental Pollution

And other topics of interest include:

- Environmental Economics
- Environmental Impact Assessment & Management Systems (EIA & EMS)
- Air Pollution and Water Pollution Control Technologies
- Heavy Metal Pollution & Long-term Health Impacts of Pesticides and Agro-chemicals
- Environmental Impacts on Agriculture and Forestry
- Waste Disposal and Pollution
- Waste Management & Landfill Gas
- Environmental Conservation and Pollution Control
- Energy Resources and Green Energy Generation Technology
- Environmental Education Health and Sanitation (EEHS)

Call for Papers

Based on the above listed themes, the conference program will comprise of several scores of Oral and Poster presentations, chaired by internationally recognized, scientists in environmental science and technologies. The title of the themes and topics are provisional, will be revised as necessary or appropriate during the abstract review process.

Papers are invited on the above themes and topics for oral and poster presentation sessions. The details and time schedules for receipt of abstracts, acceptances and final paper receipt are as follows.

Abstracts of about 500 words along with title, author/s complete address including e-mail, and telephone contact numbers may be sent to the conference secretary. Acknowledgement regarding acceptance of abstract will be sent by e-mail.

Camera ready full length papers not exceeding **8** pages including tables, graphs, or figures prepared on Microsoft word, Times Roman, Font Size 10 (not exceeding 4 MB) should be uploaded on to the Conference site, on or before **25**th **September 2024.** The technical committee will edit the text to suit the publication needs.

Registration

It is advised to do advance registration for the conference to avoid last minute hassle. Registration will be limited to the number that the facility can accommodate efficiently. Registration fee covers, a copy of the souvenir, abstracts, admission to all presentations and poster sessions, exhibit area, conference lunch, receptions and refreshment breaks. In addition, each full program registrant will receive a set of proceedings to be published and mailed soon after the conference.

Registration fee particulars for conference

Pre- Conference Workshop

As an effective prelude to ICEM –2024, an innovative, educative and informative workshop is planned, preceding the conference for the benefit of post graduate students and research scholars and other aspirant who are actively involved in environmental related subjects and technologies. Interested attendees are encouraged to apply early, as participation will be limited for the workshops.

* Registration fee per workshop is INR 2000/ -

Day and Date	International day of observation	Themes and Workshop Title	Coorinator
04- 05 October 2024	4 th Internationa IConference on Environmental Management	"Space for Sustainability: Bridging the Gap with Space Technology"	Dr.T.Vljaya Lakshmi Asso.Prof & Chairperson Bos Coordinator-DST SPR in GST for ESD &
07 October 2024	Post Conference Workshop	Harnessing Geo Al and Immersive Technologies for Environmental Sustainability	Conference Secretary- 4 th ICEM 2024

	Paid before	20 th September 2024	Registration Act	coss the desk 2024
Delegate Registration	INR 4000/-	US \$ 300	INR 5000/-	US \$ 350
Students & Research scholars	INR 1500/-	US \$ 50	INR 2000/-	US \$ 100

^{*} Student registrants are not entitled to copy of proceedings, and proof must be submitted at the time of registration.

Provisional time schedules:

Last date to submit abstract : 01st September 2024.

Notification of paper acceptance : 10th September 2024.

Final papers due : 20th September 2024.

SPONSORSHIP OPPORTUNITIES

Platinum Sponsor : INR 6,00,000

The Sponsor's name and logo will be prominently displayed at the conference venue on the main backdrop. The company name & logo will be printed in all our promotional material. Free entry to the conference to **Eight** special invitees will be given & sponsors literature will also be inserted in the delegate kit. One presentation slot 10 minutes duration at the conference will be provided. Special listing as Platinum Sponsor of the conference in the conference publication.

Gold Sponsor : INR 4,00,000

The Sponsor's name and logo will be prominently displayed at the conference venue on the main backdrop. The company name & logo will be printed in all our promotional material. Free entry to the conference to **SIX** special invitees will be given & sponsors literature will also be inserted in the delegate kit. One presentation slot 5 minutes duration at the conference will be provided. Special listing as Gold Sponsor of the conference in the conference publication.

Silver Sponsor : INR 2,00,000

The Sponsor's name and logo will be prominently displayed at the conference venue on the main backdrop. The company name & logo will be printed in all our promotional material. Free entry to the conference to **Three** special invitees will be given & sponsors literature will also be inserted in the delegate kit. Special listing as Silver Sponsor of the conference in the conference publication.

Industry Night Reception : INR 1,50,000

The Industry Night Reception facilitates interaction amongst all the delegates, invited speakers, government officials, industry, trade and press, ensuring maximum visibility. The Sponsor's name and logo will be printed on the invitation cards. The sponsor will also get an opportunity to address the gathering at the reception.

Exhibition:

Organizations and agencies associated with environmental related activities including designers, fabricators and supply of equipment, are invited to exhibit gamut of their activities, products and equipment during the conference. Exhibitors are requested to seize the opportunity to demonstrate the coveted information to the galaxy of academic and professional audience, who urge to obtain the equipment or seek services at industrial, institutional and government locations around the world.

The Exhibition stall particulars are given below.

Stall accommodation :4.0 m X 4.0 m

Tariff : INR 50,000/- includes two participants.

Souvenir:

A Souvenir will be brought out synchronizing with the time of conference highlighting the themes, lectures, key note addresses of invited experts and relevant information about environmental management technologies. A copy is given to all registered participants. To supplement the printing charges of the souvenir, it is proposed to invite leading professionals to advertise their profiles in the souvenir. The advertisement tariff is given below.

Advertisement Tariff:

 Back Cover
 : INR 30,000 /-.

 Inside Back Cover
 : INR 25,000 /-.

 Full Page
 : INR 15,000 /-.

Post Conference Field Trips

Post conference field trips are planned in and around Hyderabad, known as the "Pearl City" which will give an opportunity for socializing and interacting with delegates of the conference on topics of their mutual interest. Delegates are encouraged to apply early as participation will be limited for field trips.

Field Trip 1	Nagarjuna Sagar (one day)	INR 2500/-	US\$ 100
Field Trip 2	Srisailam (Two day)	INR 4000/-	US\$ 150
Field Trip 3	Hyderabad City Tour (one day)	INR 1000/	US\$ 75

Travel / Reception and Accommodation

The conference will be held at JNT University Hyderabad (JNTUH) – 500085., Telangana., India. For delegates Hotel rooms can be reserved by the Conference Secretariat at the City's best Luxury/middle level hotels as per their requisition. Once the requisition is given in the registration form, advance pre-paid bookingswill be entertained by conference secretariat. A list of hotels, touristbungalows and other accommodation facilities with tariff will be posted on the web site.

Mode of Payment:

All payment in connection with ICEM-2024 can be made by any one of the following method

- Either by Demand Draft or Cheque in favor of: Conference Secretary- ICEM2024, payable at State Bank of India JNTUH Campus Branch, Hyderabad, India on all nationalized / scheduled banks.
- ii. Bank Wire Transfer:

Pay to	Conference Secretary- ICEM2024
For Credit	Dr.T.Vijaya Lakshmi
Beneficiary Bank & Branch	State Bank of India, JNTUH Campus Branch, Hyderabad, India.
Beneficiary Account Name	Conference Secretary- ICEM2024
Beneficiary Account Number	42689866155
IFSC Code	SBIN0021008

iii. Spot, across the desk registration can be done either with Cheque, Demand Draft, and master/ visa card or by cash.

Conference Correspondence:

Conference Secretary (ICEM 2024):

Dr.T.Vijaya Lakshmi

Asso.Prof & Chairperson Board of studies- EST

Coordinator- DST SPR

Centre for Environment, UCEST JNT

University Hyderabad (JNTUH)

Kukatpally, Hyderabad, Telangana PIN:

500085 India

e-mail: tatiparti@intuh.ac.in

Phone: +91-9440896661/ 9704696661

Technical Coordinator (ICEM 2024):

Dr.A.Vamshi Krishna Reddy

Assistant Professor©

Centre for Environment, UCEST, JNTUH

Phone: +91-9701121470

Technical Assistant:

Mr. M.Rameshbabu, M.Tech

Centre for Environment, UCEST, JNTUH

Phone: +91-9704045663

Conference Web site

All the information, particulars, application forms, down-loads for registration etc can be accessed by visiting the conference web-site. The conference web site: www.icem2024jntuh.org

Scientific and Organizing Committee

4th INTERNATIONAL	CONFERENCE ON ENVIRONMENTAL MANAGEMENT
Chairman	Dr.K. NARASIMHA REDDY Vice Chancellor, JNT University Hyderabad, India
Co-Chairman	Dr.K.Vijay Kumar Reddy, Rector, JNTUH, India
Ln Ln	Dr.K.Venkateshwar Rao, Registrar, JNTUH, India
Ad	dvisory Committee- ICEM, 2024
Dr.Prakash Chauhan, Director NRSC and	President ISG, India
Mr.KSPV Pavan Kumar IFS,Spcl Secreta	ry, Dept of IT, Govt of Assam,India
Dr.M.Anji Reddy, Vice Chancellor AKU,	AP, India
Dr.G.V.Narasimha Reddy, Principal, UCE	ST, JNTUH, India
Dr.Sanjay Ghosh, IITR	
Dr.Basant Maheswari, WSU Australia	
Sk.Md.Zaffar sadiq Mohamed Ghouse, Spatial Vision Australia	Executive Director- Strategic Consulting & International Relations,
Mr.K.S.Venkata Giri CII GBC India	
Prof Beniamino Murugante, Italy	
Dr.C.Krishna Reddy Former chairman S	EAC Govt of India
Scientific	& Organizing Committee- ICEM, 2024
Dr. Shohreh Azizi, UNESCO UNISA -A	frica Chair, University of SA, South Africa
Dr. Guiseppe Borruso, University of Tri	este,Italy
Dr. Dharma Hagera, WSU, Australia	

Dr. Komali Kantamaneni, Co-Director-UN (United Nations)-SPIDER-RSO-UK Regional Support Office, UK Dr.W M Dimuthu Nilmini Wijeyarante, University of Kelaniya, Srilanka Abdelgadir Abuelgasim, Rabdan Academy UAE Dr.Dharma Hagare, Western Sydney University Australia Dr.Moutaz Dalati, General Director of Azurite, Syria Dr.Belal, Syria Dr.Arup Kumar, IITG, India Dr.VK.Verma, PSRAC, Punjab Dr.N Ramarao, IIST, Tiruvananthapuram, India Dr.PK Garg,IIT Gawhati, India Dr.K.Sreenivas Raju, IRS, Anna University, India Dr.K.A Radha Krishna, MIT, Mysore India Col.Dr.PVGS Jayaram, India Dr.Ganapati, VIT, Vellore, India Ms. J Sumathi, TSPCB, Telangana India Dr.P.Sreedevi, DRR, Hyderabad, India Dr.Eng.CVS Kiran, R&D, Skyroot Aerospace Mr. M.Seshagiri Rao, MD Tricadd Ltd Mr. Sreedhar M, ESRI Mr. Bhaskar K, Adapto Geoinformatics Dr.I.C Das, Scientist G and Group Director, Geoscience Group NRSC India Dr.P.Manju Sree, NRSc India Dr.Girish Pujar, NRSC India Dr.Poonam Sharma, SBS College, University of Delhi, India Dr.N.Sreenivas, INCOIS Sri.G.V. Reddy, Team Labs INTERNA Mr.Harsha Vardahn, OGC, India Dr.P.Kesava Rao, NIRD Dr.V.Hima Bindu, Head, CEN, IST, JNTUH, India Dr. Vijaya Kumari, CSE, JNTUH India Dr.Kamakshi Prasad, UCEST, JNTUH, India Dr.Archana Giri, Associate Professor, UCESTH, JNTUH Dr.Anitha Sheela, JNTUH India Dr.Srinivasulu UCEST, JNTUH Dr.Anitha Sheela, JNTUH India Dr.OBV Ramanaiah, CSE, UCEST, JNTUH, India Dr.Shilpa Chakra, CNST, UCEST, JNTUH India Dr.Uma Asso.prof UCEST JNTUH Dr.L.Saida Asso.Prof UCEST, JNTUH



4th International Conference on Environmental Management

(Oct, 04th to Oct 05th 2024)

Centre for Environment, University College of Engineering, Science and Technology
Jawaharlal Nehru Technological University Hyderabad

Kukatpally, Hyderabad, (Telangana) India.

Registration form-	4 ICEM 2024	
First Name		
Middle Name		
Last Name		
Designation		
Gender (M/F)		
Affiliation / Address		
City		
State		
Country		
Pin code		
Phone (Country code – area code –number)		
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Place of Issue		
Are you submitting / reading paper	Yes	No
Paper title		
Oral / poster presentation		
Conference participant / delegate /guest,		
pl give details :	Yes	No
First Name	NEEDEN OF ON A	
Middle Name	NERENCE ON #	2024
Last Name	ANAGEWEN I	
Address for correspondence with Phone number		
		Signature
4 th International Conference on Environmel Proforma to be completed by authors while sub- 04 th to Oct 05	ntal Management 2024 (4 mitting the abstract - 4 ICEM sth 2024)	ICEM 2024) 1 2024 <i>(Oct</i>

I. Title of the proposed paper:	Name (block letters)
2. Specify the ICEM conference code /theme:	
	Country
3. Specify the sub-topic (or the general aspect) to:	Country Code
Which the paper relates	Telephone (Office)
Which the paper relates	(Residence)
	Mobile
	Fax
Signature	E-mail

4th International Conference on Environmental Management (Oct, 04th to Oct 05th 2024)

Centre for Environment, University College of Engineering, Science and Technology
Jawaharlal Nehru Technological University Hyderabad
Kukatpally, Hyderabad, (Telangana) India

Accommodation and Reception Request Form

 Your request will be considered once you confirm your participation by submitting duly filled in registration form along with registration fee.

Personal Particulars

First Name		
Middle Name		
Last Name		
Designation		
Gender (M/F)		
Affiliation / Address		
City		
State		
Country		
Pin code		
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E-mail Accommodation Request Hotel Type ENVIR		Tariff / Day
E-mail Accommodation Request Hotel Type Luxury	Single / Double	Tariff / Day Rs 6000- 9000/- US \$ 200
E-mail Accommodation Request Hotel Type Luxury Economy	Single / Double Single / Double	Tariff / Day Rs 6000- 9000/- US \$ 200 Rs 3000- 4500/- US \$ 100
E-mail Accommodation Request Hotel Type Luxury Economy Guest House	Single / Double Single / Double Sharing Basis	Tariff / Day Rs 6000- 9000/- US \$ 200 Rs 3000- 4500/- US \$ 100 Rs 1500- 2000/- US \$ 50

Notes

<u>Note</u>

