

International Conclave on

Materials, Energy & Climate

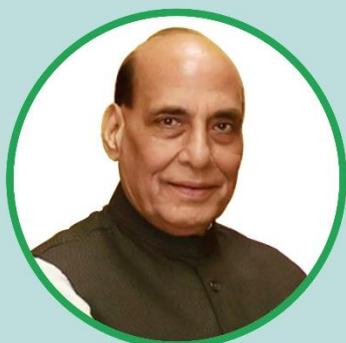
18 - 21 December 2023

Indira Gandhi Delhi Technical University for Women
Delhi, India



रक्षा मंत्रालय
MINISTRY OF
DEFENCE

सत्यमेव जयते



CHIEF GUEST
Shri Rajnath Singh

Hon'ble Minister of Defence
Government of India

About ICMEC

The International Conclave on Materials, Energy & Climate (ICMEC) is a four-day global event on **18 - 21 December 2023 at Indira Gandhi Delhi Technical University for Women, Delhi, India** with Onsite-Online Hybrid conference setups. The primary focus of the conclave is to explore recent advances in materials, energy, and climate, specifically as they pertain to sustainable green transitions. From unveiling cutting-edge materials that can redefine industries, to discussing renewable energy sources that can power our future, and understanding the nuances of climate change — the conclave promises a holistic exploration of these domains. Participants, ranging from researchers, engineers, students, and academics to policymakers, industry professionals, and business leaders, will have the chance to showcase their research, innovations, breakthroughs, and ideas. In addition, the platform facilitates networking and the forging of international collaborations.

The abstract submission
deadline for oral and poster
presentations is

November 15, 2023

Submit abstracts at:

[www.advancedmaterialscongress.org/
conclave/pages/call-for-abstracts](http://www.advancedmaterialscongress.org/conclave/pages/call-for-abstracts)



www.advancedmaterialscongress.org/conclave

TOPIC OF CONCLAVE

MATERIALS	ENERGY	CLIMATE
<ul style="list-style-type: none"> • Sustainable Construction & Building Materials • Biomaterials & Biodevices • Computational Materials & Modelling • Functional Materials • Environmental Degradation of Materials • Sustainable Materials & Processing • Artificial Intelligence and Machine Learning • Advances in Coating Technology 	<ul style="list-style-type: none"> • Batteries, Supercapacitors & Solid Electrolyte Materials • Energy Materials & Technology • Geothermal Energy • Photocatalysis & Electrocatalysis • Solar Energy Technology • Energy Harvesting • Fuel Cells Technology & Biofuels • Hydrogen Energy • Photovoltaics & Optoelectronics • Water Splitting Technology • Semiconductor Devices and ICs • Wind Energy 	<ul style="list-style-type: none"> • Environmental Impact on Climate Change • Zero Waste Technology • Wealth from Waste • Green House Gas Emission • Low Carbon Technologies • Clean & Renewable Energy • Biodiversity - Ecosystem • Sustainable Development Goals • Circular Economy • Industrial Policy & Economy • Data Analytics & Cloud Computing • IOT, Drone, Artificial Intelligence & Robotics

Conclave Chair(s)

 <p>Dr. Rajendra Singh (Waterman of India) Chairman, People's World Commission on Drought and Flood Magsaysay Awardee, Stockholm Water Prize Winner</p>	 <p>Dr. Ashutosh Tiwari Secretary General of IAAM Director, Institute of Advanced Materials Sweden</p>	 <p>Dr. Amita Dev Vice Chancellor Indira Gandhi Delhi Technical University for Women, India</p>
 <p>Prof. V. K. Vijay Indian Institute of Technology Delhi, India National Coordinator - Unnat Bharat Abhiyan, MHRD Govt. of India</p>	 <p>Prof. Shiv Singh Sarangdevot Vice Chancellor Janardan Rai Nagar University Rajasthan, India</p>	
 <p>Prof. Jyotsana Dutta Majumdar Indian Institute of Technology Kharagpur, India</p>	 <p>Prof. Debashis Chakraborty Indian Institute of Technology Madras India</p>	

MEMBERS OF ORGANIZING COMMITTEE

Dr. R. K. Tiwari Ex-Chief Secretary Uttar Pradesh Government, India	Prof. Vandana Singh Purvanchal University India	Prof. Eva Unger Helmholtz Zentrum Berlin, Germany	Prof. Beng Kang Tay Nanyang Technological University, Singapore	Prof. Gian-Marco Rignanese UC Louvain Belgium	Prof. Erwan Rauwel Estonian University of Life Science, Estonia
Prof. Shin Aoki Tokyo University of Science, Japan	Prof. Chih-Chang Chu Cornell University USA	Prof. Sebastian Peter Jawaharlal Nehru Centre for Advanced Scientific Research Bangalore, India	Prof. D. K. Dwivedi M.M.M. University of Technology India	Prof. Poornima Mittal Delhi Technical University India	Dr. Jeannie Tan Heriot-Watt University UK
Dr. Chaolin Tan Singapore Institute of Manufacturing Technology, Singapore	Dr. Mamta Shandilya Shoolini University India	Dr. Ajit Sharma Lovely Professional University, India	Dr. Nidhi Chauhan UPES, India	Dr. Shobha Shukla Indian Institute of Technology Bombay, India	Dr. Manoj Pandey Pandit Deendayal Energy University, India
Dr. Sapna Balayan VBRI Innovation Center, India	Dr. Geetika Guleria VBRI Innovation Center, India	Dr. Sachin Singh VBRI Innovation Center, India			

CONVENER(S)



Prof. Brijesh Kumar
(Director Planning)
Indira Gandhi Delhi
Technical University for
Women, Delhi, India



Prof. Radheshyam Rai
(Head, Faculty of Sciences)
Shoolini University,
Himanchal Pradesh, India



Dr. Gun Anit Kaur
(Prof. Thomas Wang Fellow)
Institute of Advanced
Materials, Sweden

INTERNATIONAL ADVISORY BOARD

Prof. Thomas Muller Ruhr-University Bochum, Germany	Prof. Mark Schulz University of Cincinnati, USA	Prof. Andrey Rogachev Illinois Institute of Technology, USA	Prof. Iseult Lynch University of Birmingham, UK
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YOUTH COMMITTEE MEMBERS

Venishaa Sethu IAM Pre-PhD Student, Sweden	Tanmay Tiwari International Institute of Water, IIW, Jodhpur	Soumyoraj Mallick International Institute of Water, IIW, Jodhpur	Pratiksha Tanwade IAM Pre-PhD Student, Sweden	Pui Puitea IAM Pre-PhD Student, Sweden
Arigela Nagendrababu IIT, Gandhinagar	Yashima Hooda IGDTUW, Delhi	Keshav Jetha IAM Pre-PhD Student, Sweden	Avinash Jaiswal IAM Pre-PhD Student, Sweden	Akshata Morajkar IAM Pre-PhD Student, Sweden
Krishna Chandgadkar IAM Pre-PhD Student, Sweden	Megha Y Bhat IAM Pre-PhD Student, Sweden	Ridhika Sharma IAM Pre-PhD Student, Sweden	Hansa Muvel IAM Pre-PhD Student, Sweden	Priya Rawat IAM Pre-PhD Student, Sweden
Rajashri Mondal IAM Pre-PhD Student, Sweden	Saurabh Pandey IAM Pre-PhD Student, Sweden	Dileep Madapana PhD scholar IIT Kharagpur	Shree Krishna PhD scholar IIT Kharagpur	

IMPORTANT DATES

Early Bird Registration 10 November 2023	Last Date of Abstract Submission 15 November 2023	Last Date of Registration 20 November 2023
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REGISTRATION FEE DETAILS

Indian Participants (Onsite)		
	Early Bird Registration Fees	Regular Registration Fees
Faculty/Post Doc/ Scientists	INR 7500	INR 8500
Students	INR 3500	INR 4500
Corporate	INR 12000	INR 15000
Indian Participants (Online)		
Faculty/Post Doc/ Scientists	INR 2500	INR 3000
Students	INR 1500	INR 2000
Corporate	INR 4000	INR 5000
International Participants (Onsite)		
Faculty/Post Doc/ Scientists	US \$500	US \$600
Students	US \$250	US \$300
Corporate	US \$800	US \$1000
International Participants (Online)		
Faculty/Post Doc/ Scientists	US \$200	US \$250
Students	US \$100	US \$150
Corporate	US \$400	US \$500

*Registration Fees does not include the accommodation charges.

OUR PROGRAM

Day 1: Monday, 18 December 2023

Session - 1: Materials	Session - 2: Energy	Session - 3: Climate
<ul style="list-style-type: none">• Nanomaterials & Nanotechnology• Nanocomposite & Nanoceramics• Nano - Thin Films, Surface & Interfaces• Polymer Nanoscience & Nanotechnology	<ul style="list-style-type: none">• Energy Materials - Synthesis & Characterization• Batteries, Supercapacitors & Solid Electrolyte Material• Water Splitting Technology• Emerging Technologies for Energy Applications	<ul style="list-style-type: none">• Environmental Impact on Climate Change• Green House Gas Emission• Zero Waste Technology• Internet of Things & AI

Day 2: Tuesday, 19 December 2023

<ul style="list-style-type: none">• Biomaterials & Biodevices• Sustainable Construction & Building Materials• Structural & Engineering Materials• Computational Materials & Modelling	<ul style="list-style-type: none">• Photovoltaics & Optoelectronics• Nano Energy & Self-powered Technology• Photocatalysis & Electrocatalysis• Geothermal Energy	<ul style="list-style-type: none">• Low Carbon Technologies• Clean & Renewable Energy• Sustainable Agriculture• Circular Economy
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Day 3: Wednesday, 20 December 2023

<ul style="list-style-type: none">• Electronic, Magnetic & Optical Materials• Energy Materials & Technology• Environmental & Green Materials• Graphene Innovations & Technology	<ul style="list-style-type: none">• Energy Harvesting Materials & Technology• Solar Energy Materials & Technology• Fuel Cells & Biofuels• Hydrogen Energy	<ul style="list-style-type: none">• Sustainable Transport• Biodiversity- Ecosystem• Sustainable Development Goals• Industrial Policy & Economy
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Day 4: Thursday, 21 December 2023

<ul style="list-style-type: none">• Catalytic Materials• Smart and Functional Materials• Nano-scale Metamaterials• Ceramic Materials Technology	<ul style="list-style-type: none">• Semiconductor Devices & IC• Next Generation Photovoltaics Technology• Waste-to-Energy Solutions• Carbon Neutral & Negative Technology	<ul style="list-style-type: none">• Drone & Robotics• Data Analytics & Cloud Computing• Intelligent Computing• Machine Learning
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Highlights

- A series of keynote and invited lectures, comprehensive oral and poster sessions.
- The highest level of interactions and the most vibrant discussions on interdisciplinary science & technology.
- Delegates will have full access to the concurrent conclave tracks to mix-and-match presentations and maximize networking.
- The conclave will start on **18 December 2023** and will conclude on **21 December 2023**.
- A head-on interaction between the exhibitors and sponsors.
- Presence of social and business technocrats.
- The conclave will provide you an amazing experience with lectures of eminent speakers, high-quality presentations, and global networking.
- Excellent experience of Indian hospitality, culture, and social activities, along with visit to Delhi and Taj and other historical places on your requests.

SPONSORSHIP

Don't miss the opportunity to be part of the global gathering in the International Conclave on Materials, Energy, and Climate for expanding your business and product launches!!

Comprehending the needs of the prospective customers has always been a challenge for organizations. The conclave Congress is designed as a one of a kind must-attend event that offers technology leaders, startups, and instrumentation companies unlimited possibilities to showcase their products and services and gain valuable insights through the exposure and one-to-one interactions.

The goal of the conclave is to congregate inventors, industry leaders, and academia delegates at one place to accelerate the adoption of new products and technologies for real-world applications.

SPONSORSHIP BENEFITS

- Find new and prospective customers.
- Educate your customers about your products.
- Showcase yourself as a thought leader in your space.
- Build your brand with targeted advertising in the Conclave.
- Meet researchers from across the globe and showcase your products and services.
- Get direct feedback from the real user of your/similar products.
- Understand their requirements and innovate before anyone else.
- Recognition on IAAM website, social media, Signage displayed at the event.

WHAT CAN YOU SHOWCASE AT THE CONCLAVE

- State-of-the-Art Technologies
- Research Work on the latest inventions
- Invite for Academia Partnership
- Working Prototypes of upcoming technologies
- Latest Products or Service Announcements
- Expansion Plans to multiple geographies
- Live Product Demos
- Demonstrate Product Value to high-level decision makers

SPONSORSHIP PACKAGES

- **Platinum Jubilee** : INR 1,00,000/-
- **Diamond Jubilee** : INR 75,000/-
- **Gold Jubilee** : INR 50,000/-
- **Silver Jubilee** : INR 25,000/-

To get more information about the Sponsorship details, you can reach out to the following:

Dr. Gun Anit Kaur
E-mail: icmec2023@gmail.com
Contact: (+91) 9306864604

About Organizer



The International Association of Advanced Materials (IAAM, Org. nr. 802503-6784) is a well-known non-profit organization that conducts scientific activities on advanced materials. It has more than 50000 members from over 125 countries. The group works to support a highly interactive community of researchers studying advanced materials and to encourage alliances, partnerships, and joint ventures that could result in the quick advancement of materials. IAAM seeks to use the field of advanced materials to address the world's most pressing problems. Its motto is "Advancement of materials to global excellence". With this objective in mind, the organization provides international forums for research and education to encourage advancement in the areas of advanced science, engineering, and technology. IAAM is commemorating ten years of what has been an incredibly successful and amazing journey in 2020. The motto of the IAAM in this new decade will be "Advancement of Materials to Sustainable and Green World."

www.iaamonline.org



Indira Gandhi Delhi Technical University for Women, New Delhi, (www.igdtuw.ac.in) was established by the Govt. NCT of Delhi in May 2013 according to Delhi Act 09 of 2012, as a non-affiliating university to facilitate and promote studies, research, technology, innovation, incubation and extension work in emerging areas of professional education among women, with focus on engineering, technology, applied sciences, architecture and its related areas with the objective of achieving excellence in these and related fields. The first Indira Gandhi Institute of Technology (IGIT) was established in 1998 by the Directorate of Training and Technical Education, NCT of Delhi, as the first engineering college for women only.

www.igdtuw.ac.in



The Indian Institute of Technology Madras (IIT Madras) Chennai, Tamil Nadu, is a technical institute established in 1959, in the first Indo-German agreement at Bonn, West Bengal. IIT Madras is the third Indian Institute of Technology established by Govt. of India. IIT Madras has been one of the top ranked engineering institute in India and the 'Best Educational Institution' in NIRF Ranking 2019 by the Ministry of Human Resource Development. The mission of this Institute is to deliver high-quality of education, and conduct cutting edge research in engineering and technology. The institute emphasizes on promoting research and innovation, fosters entrepreneurship, robust international collaboration, and upholding a commitment to sustainability.

www.iitm.ac.in



Indian Institute of Technology (IIT), Kharagpur was the first IIT in India established in May 1950. IIT, Kharagpur was started by the committee set up by Hon'ble Sir Jogendra Singh, Member of the Viceroy's Executive Council. With a campus of 2100 acres, it has been recognized as one of the largest technical university in the world. IIT secured 6th ranking by the National Institutional Ranking Framework (NIRF) 2022, 60th place in Asian University Rankings 2022, and 270th in QS World University Rankings 2023. The foundation of IIT was laid with the motto of "Excellence in action is Yoga" and to serve society with education, research, professional skills, entrepreneurship, and innovation. IIT is also engaged in several welfare programs, national missions, and internationalization and globalization of IIT to promote the quality of education.

www.iitkgp.ac.in



Rajasthan Vidyapeeth
University

The esteemed institution has been honored with the coveted A+ grade by the National Assessment and Accreditation Council (NAAC). It stands as a testament to our dedication to academic excellence and continuous improvement. Established by the visionary Pandit Janardan Rai Nagar, the university has always been guided by its motto, "University Known for its Adult & Continuing Education Work", emphasizing the importance of lifelong learning and education for all.

www.jrnrvu.edu.in



International Institute of Water (IIW), located in the culturally rich city of Jodhpur, Rajasthan, stands as a prominent and revered institution committed to addressing the pressing global water crisis. Our institute is deeply devoted to the advancement of knowledge, the promotion of sustainable water management practices, and fostering international cooperation in the field of water resources. IIW is propelled by a singular and unwavering mission: to ensure the sustainable and equitable stewardship of water resources, thus benefiting both present and future generations.

www.iiwater.org

Conclave Publications

*After peer review, the full papers of all ICMEC lectures, oral and poster presentations will be published in Scopus/Web of Science/UGC Care list journals/proceedings/books.

Scopus®



 Springer