



# International Conclave on Materials, Energy & Climate

12 - 14 December 2022

## Venue:

Indira Gandhi Delhi Technical University for Women  
Kashmere Gate, Delhi 110006, India



## About ICMEC

The International Conclave on Materials, Energy & Climate (ICMEC) is a three-day global event organized jointly by the International Association of Advanced Materials, Indira Gandhi Delhi Technical University and Shoolini University for Women on the 75<sup>th</sup> anniversary of India's Independence from **12 - 14 December 2022 at Indira Gandhi Delhi Technical University for Women, Kashmere Gate, Delhi, India** with Onsite-Online Hybrid conference setups. ICMEC is dedicated to discussing the latest developments in materials, energy, and climate as they pertain to green transitions. This conclave will provide researchers, engineers, students, academicians, policymakers, field professionals, and business titans with opportunities to present their study, research results, ground-breaking innovations, discoveries, path-breaking ideas, policy experiences, product displays, and initiate new partnerships at an international forum.



[www.advancedmaterialscongress.org/conclave](http://www.advancedmaterialscongress.org/conclave)



The abstract submission deadline for oral and poster presentations is **November 15, 2022.**

Submit abstracts at:

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

Contact:

Mobile: (+91) 95609 90957 | E-mail: [icmec2022@gmail.com](mailto:icmec2022@gmail.com)

# Celebrating 75<sup>th</sup> Years of Independence

## Global summit honouring the role played by our scientists in the development of modern India

The conclave will take place in conjunction with the Azadi Ka Amrit Mahotsav, an initiative of the Indian government to commemorate the nation's 75th anniversary of independence as well as the glorious past of its people, culture, and achievements. The advancement of materials, energy, and climatic conditions was made possible by Indian engineering, science, and technology, which is also recognized by this initiative. At this international event, 50 eminent foreign scientists and 75 eminent Indian scientists will be recognized for their contributions that laid the groundwork for modern India.



### Topic of Conclave

MATERIALS	ENERGY	CLIMATE
<ul style="list-style-type: none"> <li>• Nanomaterials &amp; Nanotechnology</li> <li>• Polymer Science &amp; Technology</li> <li>• Sustainable Construction &amp; Building Materials</li> <li>• Biomaterials &amp; Biodevices</li> <li>• Composite &amp; Ceramic Materials</li> <li>• Computational Materials &amp; Modelling</li> <li>• Metamaterials</li> <li>• Functional Materials</li> <li>• Environmental &amp; Green Materials</li> <li>• Graphene Innovations &amp; Technology</li> <li>• Energy Materials &amp; Technology</li> <li>• Structural &amp; Engineering Materials</li> <li>• Electronic, Magnetic &amp; Optical Materials</li> <li>• Artificial Intelligence and Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Batteries, Supercapacitors &amp; Solid Electrolyte Materials</li> <li>• Emerging Technologies for Energy Applications</li> <li>• Energy Materials</li> <li>• Geothermal Energy</li> <li>• Nano Energy &amp; Self-powered Technology</li> <li>• Photocatalysis &amp; Electrocatalysis</li> <li>• Solar Energy Technology</li> <li>• Energy Harvesting</li> <li>• Fuel Cells &amp; Biofuels</li> <li>• Hydrogen Energy</li> <li>• Photovoltaics &amp; Optoelectronics</li> <li>• Water Splitting Technology</li> <li>• Semiconductor Devices and IC</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental Impact on Climate Change</li> <li>• Zero Waste Technology</li> <li>• Green House Gas Emission</li> <li>• Sustainable Agriculture</li> <li>• Low Carbon Technologies</li> <li>• Clean &amp; Renewable Energy</li> <li>• Sustainable Transport</li> <li>• Biodiversity - Ecosystem</li> <li>• Sustainable Development Goals</li> <li>• Circular Economy</li> <li>• Industrial Policy &amp; Economy</li> <li>• Thin Films, Materials Surface &amp; Interfaces</li> <li>• Machine Learning &amp; Intelligent Computing</li> <li>• Data Analytics &amp; Cloud Computing</li> <li>• IOT, Drone, Artificial Intelligence &amp; Robotics</li> </ul>



## Conclave Chair(s)





**Dr. Rajendra Singh**  
(Waterman of India)  
Chairman, People's World  
Commission on Draught and  
Flood, Magsaysay Awardee,  
Stockholm Water Prize Winner



**Dr. Ashutosh Tiwari**  
Secretary General of IAAM,  
Director, Institute of  
Advanced Materials,  
Sweden



**Dr. Amita Dev**  
Vice Chancellor  
Indira Gandhi Delhi  
Technical University  
for Women  
India



**Prof. V. K. Vijay**  
Indian Institute of Technology Delhi, India  
National Coordinator - Unnat Bharat Abhiyan,  
MHRD Govt. of India  
Member Board of Governors, IIT Bhilai  
Member, Science and Engineering Research  
Board, & Indian Naval Academy  
Fellow, International Association of  
Advanced Materials  
Coordinator, Biogas Development &  
Training Centre



**Dr. Anand S Khati**  
Chairman, Waste Utility Alliance,  
Asia Pacific Region  
Former Director General (HR),  
Railway Board  
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**Prof. Tanu Jindal**  
Pro Vice Chancellor  
and R&D Director  
Amity University  
India



**Dr. Usha Mina**  
Associate Professor  
Jawaharlal Nehru University, India



## Conclave Panel Chair(s)





**R. K. Tiwari, IAS**  
Chairman  
UPSTRC  
U.P. Govt. India



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Chancellor  
Shoolini University  
India



**Dr. Anil Tiwari**  
Chancellor  
Mahakaushal  
University  
India



**Prof. Rajive Mohan Pant**  
Vice Chancellor  
Assam University  
India



**Prof. Anand Bhalerao**  
Vice Chancellor  
Central University of  
Rajasthan  
India



**Prof. J. P. Pandey**  
Vice Chancellor  
Madan Mohan Malaviya  
University of Technology  
India



**Prof. Pravin N. Kondekar**  
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IIITDM Jabalpur  
India



**Prof. K. D. Mishra**  
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Rani Durgavati  
Vishwavidyalaya  
India



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Vice Chancellor  
Vikram University  
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**Dr. Mikael Syväjärvi**  
R&I Coordinator  
Institute of Advanced  
Materials, Sweden



**Prof. Gauri Dutt Sharma**  
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University of Science &  
Technology  
Meghalaya, India



**Prof. Sanjay Tiwari**  
Madhya Pradesh Bhoj  
(Open) University  
India



**Col. Prof. Shiv Singh Sarangdevot**  
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Janardan Rai Nagar  
Rajasthan Vidyapeeth  
India



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**Dr. Shubhangi Gupta**  
Executive Director  
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## CONVENER(S)



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



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



**Dr. Pravin Kumar Singh**  
(Prof. Mark J Schulz Fellow)  
Institute of Advanced  
Materials, Sweden

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## YOUTH COMMITTEE MEMBERS

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<b>Sarveshvaran</b> IAM Pre-PhD Student, Sweden	<b>Soumya Shephalika</b> IAM Pre-PhD Student, Sweden	<b>Joyita Banerjee</b> IAM Pre-PhD Student, Sweden	<b>Khushali Joshi</b> IAM Pre-PhD Student, Sweden	<b>Divya Kulkarni</b> IAM Pre-PhD Student, Sweden
<b>Sanskriti Srivastava</b> Maa Gayatri Group of Institution, India	<b>Jinu John</b> IAM Pre-PhD Student, Sweden	<b>Shreya Tiwari</b> Mahakaushal University, India	<b>Sumant Kumar</b> IAM Pre-PhD Student, Sweden	

## PANELIST AND SESSION CHAIR(S)

<b>Prof. A. P. Dimri</b> Jawaharlal Nehru University, India	<b>Dr. Neel Sarovar Bhavesh</b> International Centre for Genetic Engineering and Biotechnology, India	<b>Dr. Jaydeep Bhattacharya</b> Jawaharlal Nehru University, India	<b>Dr. Rajni Singh</b> Amity University Noida India
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## IMPORTANT DATES

<b>Early Bird Registration Fee</b> 30 October 2022	<b>Regular Registration Fee</b> 18 November 2022	<b>Last Date for Registration</b> 30 November 2022
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## FEE DETAILS

### Indian Participants (Onsite)

<b>Faculty/Post Doc/ Scientists</b>	₹9500	₹11000
<b>Students</b>	₹7500	₹8500
<b>Corporate</b>	₹20000	₹12000

### Indian Participants (Online)

<b>Faculty/Post Doc/ Scientists</b>	₹2500	₹3000
<b>Students</b>	₹1500	₹2000
<b>Corporate</b>	₹4000	₹5000

\*Registration Fees does not include the accommodation charges during the conference.

\*\* Publication fee of ₹1750 will be added for publication in the indexed proceedings with DOI.

# Our Program

## Day 1: Monday, 12 December 2022

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

## Day 2: Tuesday, 13 December 2022

<ul style="list-style-type: none"> <li>• Biomaterials &amp; Biodevices</li> <li>• Functional Materials</li> <li>• Sustainable Construction &amp; Building Materials</li> <li>• Structural &amp; Engineering Materials</li> <li>• Computational Materials &amp; Modelling</li> </ul>	<ul style="list-style-type: none"> <li>• Photovoltaics &amp; Optoelectronics</li> <li>• Nano Energy &amp; Self-powered Technology</li> <li>• Photocatalysis &amp; Electrocatalysis</li> <li>• Geothermal Energy</li> <li>• Semiconductor Devices and IC</li> </ul>	<ul style="list-style-type: none"> <li>• Low Carbon Technologies</li> <li>• Clean &amp; Renewable Energy</li> <li>• Sustainable Agriculture</li> <li>• Circular Economy</li> <li>• Machine Learning</li> <li>• Intelligent Computing</li> </ul>
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## Day 3: Wednesday, 14 December 2022

<ul style="list-style-type: none"> <li>• Electronic, Magnetic &amp; Optical Materials</li> <li>• Energy Materials and Technology</li> <li>• Environmental &amp; Green Materials</li> <li>• Graphene Innovations &amp; Technology</li> <li>• Catalytic Materials</li> </ul>	<ul style="list-style-type: none"> <li>• Energy Harvesting Materials and Technology</li> <li>• Solar Energy Materials and Technology</li> <li>• Fuel Cells &amp; Biofuels</li> <li>• Hydrogen Energy</li> </ul>	<ul style="list-style-type: none"> <li>• Sustainable Transport</li> <li>• Biodiversity- Ecosystem</li> <li>• Sustainable Development Goals</li> <li>• Industrial Policy &amp; Economy</li> <li>• Data Analytics &amp; Cloud Computing</li> </ul>
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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 **12 December 2022** and will conclude on **14 December 2022**.
- 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 3,00,000/-
- **Diamond Jubilee** : INR 2,00,000/-
- **Gold Jubilee** : INR 1,00,000/-
- **Silver Jubilee** : INR 50,000/-

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

**Dr. Bhaskar Jyoti**  
ipr@mku.ac.in  
Contact No. 8630657702

**Dr. Pravin Kumar Singh**  
icmec2022@gmail.com  
Contact No. 8887699516



# 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](http://www.iaamonline.org)



Founded by leading academicians and professionals, Shoolini University is a young, research-oriented, philanthropic university. Established in 2009, this dynamic and innovation-led Centre of learning has made giant strides. It has consistently been ranked among India's top 100 universities (NIRF), is one of India's highest generators of patents and innovation and matches the world's best universities in research output. The mission of the university is to make quality university education accessible to all with an honest, clean, and compliant environment with a focus towards growth of community through advancement in research and innovation.

[www.shooliniuniversity.com](http://www.shooliniuniversity.com)



Indira Gandhi Delhi Technical University for Women, New Delhi, ([www.igdtuw.ac.in](http://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](http://www.igdtuw.ac.in)

## 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.



## Host, Co-host & Supporting Organizations

