



**INTEGRAL
UNIVERSITY**
LUCKNOW - INDIA

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BY NAAC



DEPARTMENT OF CHEMISTRY

Integral University, Lucknow

&

DEPARTMENT OF APPLIED SCIENCES

Indian Institute of Information Technology, Allahabad

IN COLLABORATION WITH

ASSOCIATION OF CHEMISTRY TEACHERS



ORGANIZE



Online Seminar

On

EMPOWERING WOMEN IN SCIENCE: CHALLENGES AND PROSPECTS

AS A PART OF THE

Global Women's Breakfast (GWB 2025)

(Theme: Accelerating Equity in Science)


Head
Department of Chemistry
Integral University, Lucknow



11 February, 2025
3:00 P.M. Onwards



PLATFORM
(Google Meet)

ABOUT THE SEMINAR:

The goal of the IUPAC Global Women's Breakfast (GWB) is to bridge the gender gap in science by bringing together people of all genders from different disciplines of science from industry and academia to strengthen the science fraternity and overcome the barriers to gender equality in science. The theme for #GWB2025 is "Accelerating Equity in Science" in support of the International Year of Quantum Science and Technology (IYQ) celebration. This seminar aims to bring some highly accomplished women scientists to share their experiences and sensitize young students towards their contribution to Science.

KEYNOTE SPEAKERS

Professor Krishna Misra

Honorary professor
Department of Applied Sciences
Indian Institute of Information Technology
Allahabad

Dr. Ritu Trivedi

Senior Principal Scientist
Endocrinology Division
CSIR-Central Drug Research Institute
Lucknow

Dr. Rachana Kumar

Principal Scientist & Associate Professor (AcSIR)
Analytical Chemistry Division
CSIR-Indian Institute of Toxicology Research
Lucknow

Dr. Abha Meena

Principal Scientist & Associate Professor (AcSIR)
Molecular Bioprospection and Product Development Department
CSIR-Central Institute of Medicinal and Aromatic Plants
Lucknow

Dr. Tripti Ahuja

Project Scientist
Common Research and Technology Development Hub
CSIR-Indian Institute of Toxicology Research
Lucknow

ABOUT THE DEPARTMENT OF CHEMISTRY, INTEGRAL UNIVERSITY, LUCKNOW:

The rich legacy of the Department of Chemistry at Integral University dates back to the year 1998, coinciding with the establishment of the Integral Institute of Technology, and subsequently evolving into the full-fledged Integral University in 2004. The department is known for its inspiring faculty members and motivated students. The department offers undergraduate and postgraduate programs in Industrial Chemistry and Chemistry and also offers Ph.D. programme in both full-time and part-time mode. The Ph.D. programme encompasses various specialized fields including Analytical Chemistry, Inorganic Chemistry, Organic and Medicinal Chemistry, Physical Chemistry, and Environmental Chemistry, attracting a diverse cohort of scholars keen on advancing scientific knowledge. The academic excellence is reflected by the placements of the students in recognized organizations and their progress in higher studies. The department has state-of-the-art and meticulously designed laboratories to hone the students' practical skills. Further, the newly incepted Central Instrumentation Facility is furnished with sophisticated amenities including FTIR, XRD, LC-MS, ICP-MS, HPLC, and UV-Visible, among others to facilitate the research endeavours. As the outcome of laborious work and quality research, more than 500 research papers affiliated with the Department have been published in National and International journals of repute. The faculty members have also authored several reference and textbooks and contributed book chapters in international books.

R. Misra
Department of Chemistry
Integral University, Lucknow

ABOUT THE DEPARTMENT OF APPLIED SCIENCES, INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, ALLAHABAD:

The Department of Applied Sciences is an integral component of the academic ecosystem of the Indian Institute of Information Technology, Allahabad. The department conducts postgraduate and research programs in Bioinformatics and Biomedical engineering. The courses that are conducted as such are offered for students aspiring undergraduate (5-year dual degree), postgraduate (2-year program) and Ph.D. program. The department also contributes to various courses in physics and mathematics running in other departments of the institute. The department includes Bio-MEMs, Chemistry & Nanotechnology, Biomedical Informatics, System Biology, Biomedical Imaging, and Spintronic and Magnetic materials laboratories.

ABOUT THE ASSOCIATION OF CHEMISTRY TEACHERS:

The Association of Chemistry Teachers was launched in 2000 to serve as an apex national body of chemistry educators to promote excellence in chemistry education. The idea of formulating ACT was conceptualized by Homi Bhabha Centre for Science Education (TIFR) Mumbai. The Association brings together on a common platform higher secondary school teachers, college and university lecturers, professors, scientists, and researchers from industry to organize subject-related activities. Since its inception, ACT has worked tirelessly to strengthen chemistry education in India and to motivate students to pursue chemistry as a career.

CONVENOR

Professor Abdul Rahman Khan
Dean, Faculty of Science &
Head, Department of Chemistry
Integral University
Lucknow

CO-CONVENOR

Dr. Nidhi Mishra
Associate Professor
Department of Applied Sciences
Indian Institute of Information Technology
Allahabad

ORGANIZING SECRETARY

Dr. Tahmeena Khan
Assistant Professor
Department of Chemistry
Integral University
Lucknow

IMPORTANT INSTRUCTIONS

- Meeting details will be shared with all the registered participants through email.
- E-copy of the Certificate of participation will be provided.
- For any queries contact tahmeenak@iul.ac.in, nidhimishra@iiita.ac.in

REGISTRATION DETAILS

<https://forms.gle/ou11t6jtkSQaGiCm8>

No Registration Fee

Tahmeena Khan
Head
Department of Chemistry
Integral University, Lucknow



Invitation to Online Seminar – Empowering Women in Science: Challenges and Prospects

2 messages

Head Chemistry <Headchem@iul.ac.in>
To: "Prof. Abdul Rahman Khan" <coe@iul.ac.in>

Wed, Feb 5, 2025 at 11:59 AM

Dear Colleagues,**Greetings!**

It is with great pleasure that I invite you to attend an **Online Seminar on “Empowering Women in Science: Challenges and Prospects”**, jointly organized by the **Department of Chemistry, Integral University**, the **Department of Applied Science, Indian Institute of Information Technology, Allahabad**, and the **Association of Chemistry Teachers** on **February 11, 2025, at 3:00 PM onwards**.

This seminar is being held in celebration of the **Global Women’s Breakfast 2025**, under the theme **“Accelerating Equity in Science.”** It aims to bring together some of the most accomplished **women scientists** who will share their experiences and insights, inspiring young minds to recognize and appreciate the invaluable contributions of women in science.

Keynote Speakers:

- ◆ **Professor Krishna Mishra** – Honorary Professor, Department of Applied Science, IIT Allahabad
- ◆ **Dr. Ritu Trivedi** – Senior Principal Scientist, Endocrinology Division, CSIR-CDRI, Lucknow
- ◆ **Dr. Rachana Kumar** – Principal Scientist & Associate Professor (AcSIR), Analytical Chemistry Division, CSIR-IITR, Lucknow
- ◆ **Dr. Abha Meena** – Principal Scientist & Associate Professor (AcSIR), Molecular Bioprospection and Product Development, CSIR-CIMAP, Lucknow
- ◆ **Dr. Tripti Ahuja** – Project Scientist, Common Research and Technology Development Hub, CSIR-IITR, Lucknow

✦ **Registration Link:** Registration link: <https://forms.gle/ou11t6jtkSQaGiCm8> (*Free Registration*)

📧 **For any queries, please contact:**

- ◆ **Dr. Tahmeena Khan** (Organizing Secretary) – *Email:* tahmeenak@iul.ac.in

We look forward to your participation in this enlightening discussion as we work together to promote **gender equity and inclusivity in science**.

Warm regards,

Professor Abdul Rahman Khan
Dean, Faculty of Science &
Head, Department of Chemistry
Integral University, Lucknow


Head
Department of Chemistry
Integral University, Lucknow



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Online Seminar

On

**EMPOWERING WOMEN IN SCIENCE:
CHALLENGES AND PROSPECTS**

AS A PART OF THE

Global Women's Breakfast (GWB 2025)

(Theme: Accelerating Equity in Science)



11 February, 2025
3:00 P.M. Onwards



PLATFORM
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CO-CONVENOR

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Department of Applied Science
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Dr. Ritu Trivedi

Senior Professor, Scientist
Environmental Division
ICRR-Central Drug Research Institute
Lucknow

Dr. Rachana Kumar

Theoretical Scientist & Associate Professor (AS/IR)
Analytical Chemistry Division
CSIR-Indian Institute of Technology Research
Lucknow

Dr. Abha Meena

Principal Scientist & Associate Professor (A/504)
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Dr. Tripti Ahuja

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Head
Department of Chemistry
Integral University, Lucknow

Brochure-GWB 2025.pdf
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Controller of Examination <coe@iul.ac.in>

To: heads@iul.ac.in, Principal Polyks <principal.polyks@iul.ac.in>, Info Shahjahanpur <infosjn@iul.ac.in>, Faculties-Faculty of Sciences <scifc@iul.ac.in>, Faculties-faculty of Engineering <engfgc@iul.ac.in>, Ahmad Ghazali Kidwai <agkidwai@iul.ac.in>, "Mohd. Yusuf Kidwai" <mykidwai@iul.ac.in>, Malik Nasibullah <malik@iul.ac.in>, Naseem Ahmad <naseem@iul.ac.in>, Saimah Khan <saimah@iul.ac.in>, firoz@iul.ac.in, qirahman@iul.ac.in, Tahmeena Khan <tahmeenak@iul.ac.in>, jamalakhtar@iul.ac.in, miahmad@iul.ac.in, Iqbal Azad <iazad@iul.ac.in>.

Wed, Feb 5, 2025 at 12:05 PM

anafees@iul.ac.in, shahla@iul.ac.in, faisha@iul.ac.in, ithd@iul.ac.in, "Dr. Asma Farooque" <asma@iul.ac.in>, Habib Uddin <habibuddin@iul.ac.in>, amitgoel@iul.ac.in, shhasan@iul.ac.in, "Dr. Neha Mumtaz" <nehamumtaz@iul.ac.in>
Cc: "Prof. Javed Musarrat" <vc@iul.ac.in>, "Prof. Mohd. Haris Siddiqui" <registrar@iul.ac.in>, Director Human Resource Development Centre <directorhrdc@iul.ac.in>, Director IQAC <directoriqac@iul.ac.in>, Director CCGND <dirccgnd@iul.ac.in>, Director Integral Institute Of Allied Health Sciences & Research <diriahsr@iul.ac.in>, Mohd Zafar <dirsports@iul.ac.in>, DEANS <deans@iul.ac.in>, deanibs@iul.ac.in

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 Brochure-GWB 2025.pdf
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Head
Department of Chemistry
Integral University, Lucknow

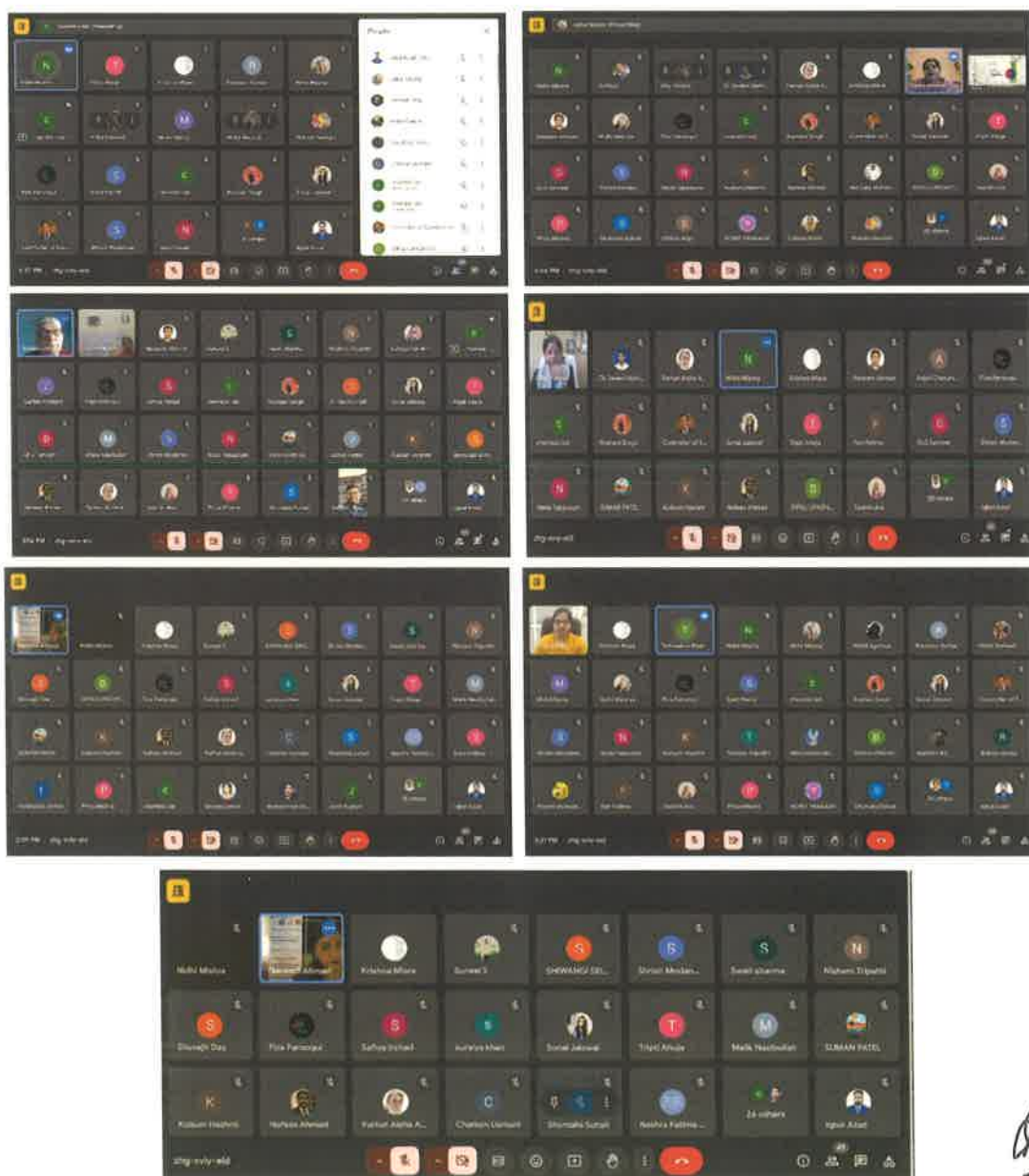
Online Seminar
on
Empowering Women in Science: Challenges and Prospects
(Global Women's Breakfast (GWB 2025))

Theme: Accelerating Equity in Science

Organized by
Department of Chemistry, Integral University & Department of Applied Science, IIIT-A
In Collaboration with
Association of Chemistry Teachers (ACT)

Date: 11th February 2025

Attendance



Dr. Anshu Singh
Head
Department of Chemistry
Integral University, Lucknow



INTEGRAL UNIVERSITY
LUCKNOW - INDIA

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Report of
Online Seminar
On

Empowering Women in Science: Challenges and Prospects

(As a part of the Global Women's Breakfast 2025)

Organized by

Department of Chemistry, Integral University, Department of Applied Sciences, Indian Institute of Information Technology

In Collaboration with

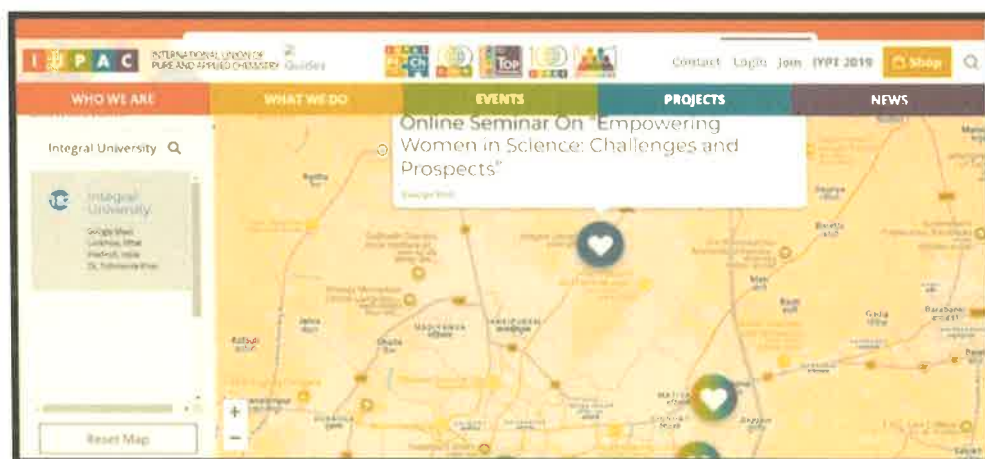
Association of Chemistry Teachers (ACT)

Date: 11th February 2025, Platform: Google Meet

Details in a nutshell:

Total Participants	Outside	In-house
165	97 (Faculty=12, Students=85)	68 (Faculty=20, Students=48)

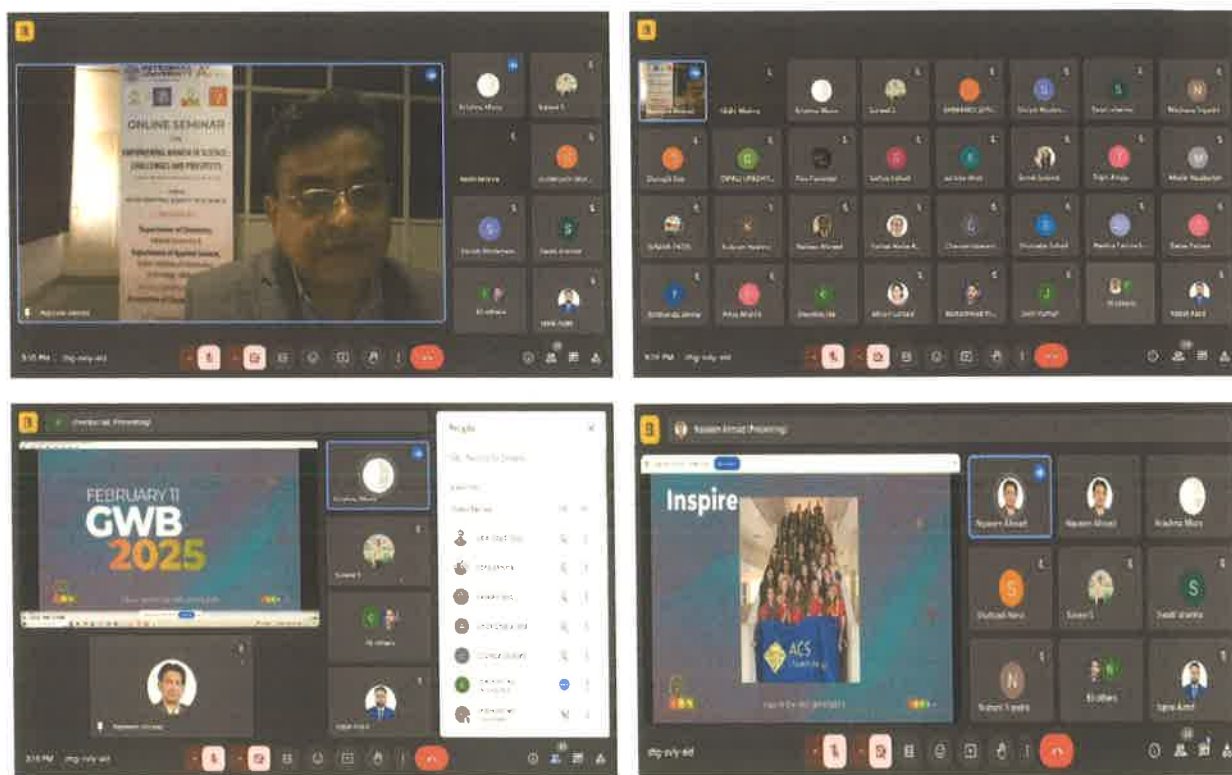
The goal of the IUPAC Global Women's Breakfast (GWB) is to bridge the gender gap in science by bringing together people of all genders from different disciplines of science from industry and academia to strengthen the science fraternity and overcome the barriers to gender equality in science. **The theme for #GWB2025 was "Accelerating Equity in Science"** in support of the International Year of Quantum Science and Technology (IYQ) celebration. To mark GWB 2025, the Department of Chemistry, Integral University and Department of Applied Sciences, Indian Institute of Information Technology, Allahabad jointly organised an online seminar on 11th February in online mode. This seminar aimed at bringing some highly accomplished women scientists to share their experiences and sensitize young students towards their contribution to science. The event was also aligned with the **Sustainable Development Goal 5 (Gender Equality)**.



Rohini
Head
Department of Chemistry
Integral University, Lucknow

❖ Inaugural session

The seminar began with the welcome address of Dean, Faculty of Science, Head Department of Chemistry, Integral University and the convenor of the seminar **Professor Abdul Rahman Khan**. He shared that although women have made substantial progress in different fields, they remain underrepresented in senior academic and decision-making positions, particularly in the Indian scenario. The disparities and challenges like unconscious bias, family issues, and limited access to resources are some hurdles that need to be crossed to facilitate the full participation of women in research and innovation. He also shared that IUPAC has established this unique platform of Global Women's Breakfast to establish an active network of people to overcome the barriers to gender equality in science and promote the active contribution of women in STEM. After the welcome address **Dr. Tahmeena Khan**, organizing secretary of the seminar shared that the goal of this annual meet is to establish an active network of people to overcome the barriers to gender equality in science and over the last six years, nearly 2000 GWB events have been held in 100 countries. A video presentation was made on the conception of GWB with the participants.

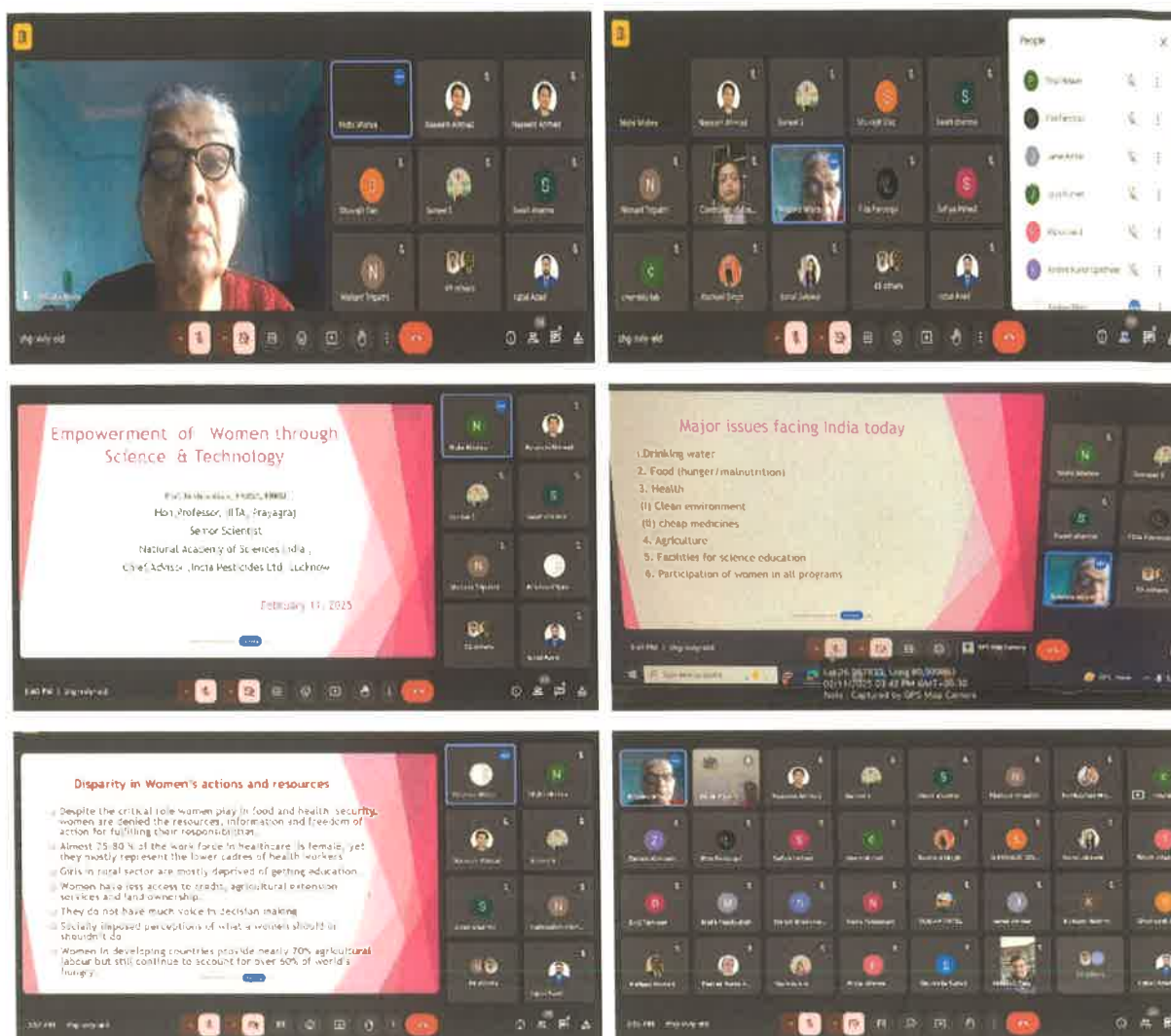


Glimpses from the inaugural session

Keynote lecture I

33 Professor Krishna Mishra, Honorary professor, Department of Applied Sciences, Indian Institute of Information Technology, Allahabad, India was the first speaker of the day. The title of her talk was “Empowerment of Women through Science & Technology”. Professor Mishra shared how Indian women have played a crucial role in different challenges. She presented some examples like Sarojini Naidu, Vijaylaxmi Pandit, Kalpana Chawla and Sunita Williams, with an Indian origin. She also shared that in healthcare sector 75-80% work force is female, yet they mostly represent the lower cadres. Prof. Mishra also shared that 70% agricultural labour is done by women, still they remain hungry. Overall, her talk was very informative and enlightening.

Dr. Tahmeena Khan
Department of Chemistry
Integral University, Lucknow



Glimpses of Keynote lecture I

❖ Keynote lecture II

Dr. Ritu Trivedi, Senior Principal Scientist, Endocrinology Division, CSIR-Central Drug Research Institute Lucknow was invited as the second speaker. She has been recently featured in the top 100 scientists all over the world. The title of her presentation was “**Empowering Women in Science: Challenges and Prospects**”. Dr. Trivedi emphasized that times have changed, and women have equal right as men to determine choices and to access opportunities and resources. She also shared an overview on the historical picture of the gender inequality in scientific careers across countries and disciplines. The lecture was very interesting and informative.

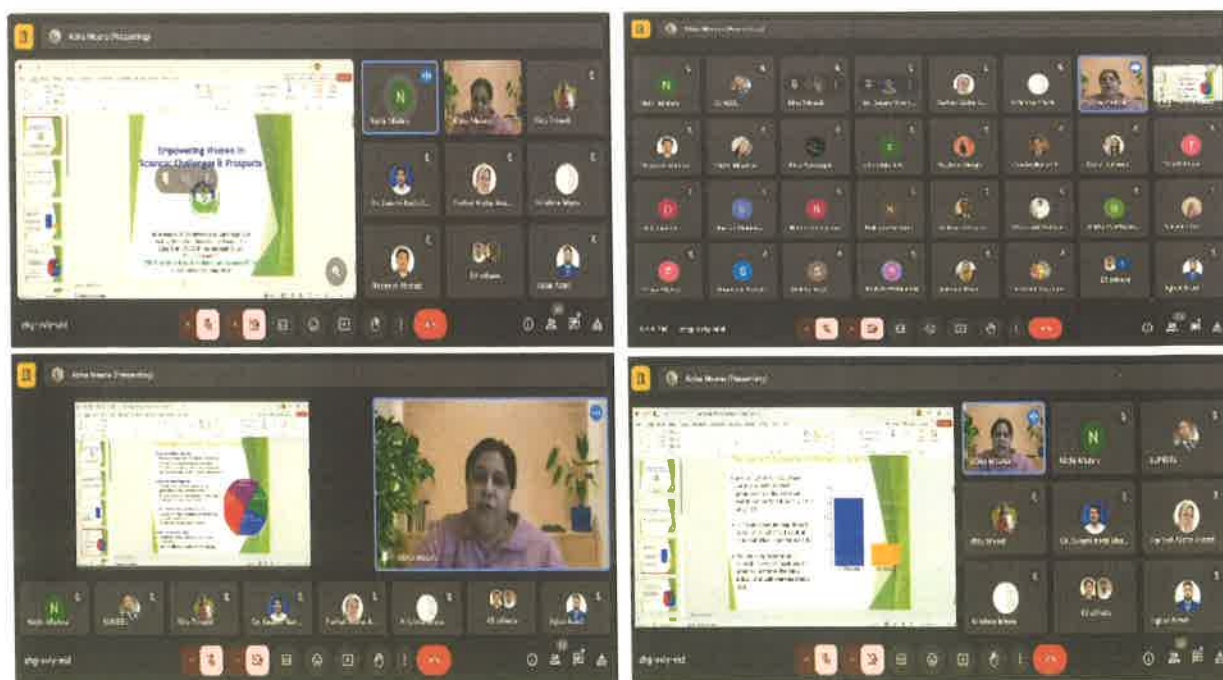




Glimpses of Keynote lecture II

❖ Keynote lecture III

Dr. Abha Meena, Principal Scientist & Associate Professor (AcSIR), Molecular Bioprospection and Product Development Department, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow was the third speaker of the day. She shared the current scenario of in science, citing UNESCO data which shows that women constitute 43% of STEM graduates in India, yet they are underrepresented at the workspace. She also highlighted that according to the Global Gender Gap Report, 2023 India ranks 127 out of 146 countries in gender equality. Dr. Abha shared those social and cultural barriers, workplace discrimination, lack of mentorship and work-life balance issues are some of the major hurdles faced by women in STEM.

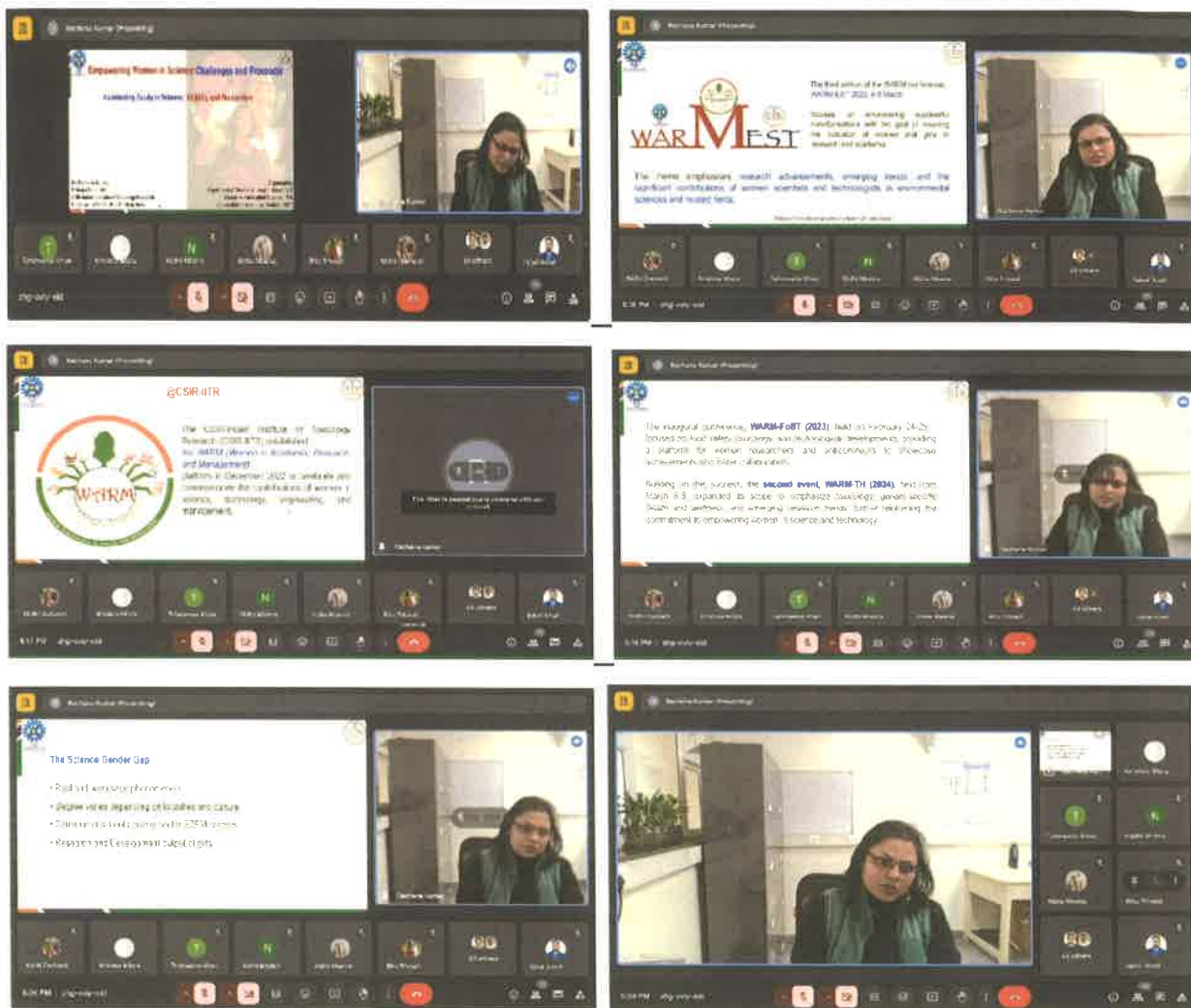


Glimpses of Keynote lecture III

Dr. Anamika
 Head
 Department of Chemistry
 Integral University, Lucknow

❖ Keynote lecture IV

The fourth keynote lecture of the seminar was delivered by **Dr. Rachana Kumar, Principal Scientist and Associate Professor (AcSIR), Analytical Chemistry Division, CSIR-Indian Institute of Toxicology Research, Lucknow**. The title of her presentation was “**Accelerating Equity in Science: Visibility and Recognition**”. Dr. Rachana Kumar very nicely explained the Science Gender Gap which is prevalent in academics and research both. She also highlighted the WARM (Women in Academia, Research and Management) platform being established by CSIR-IITR in December 2022 to celebrate and commemorate the contributions of women in STEM.

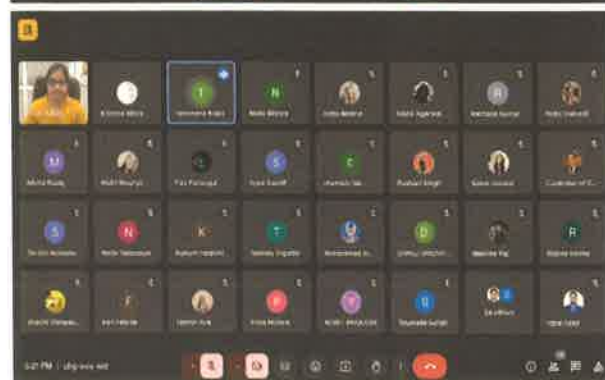
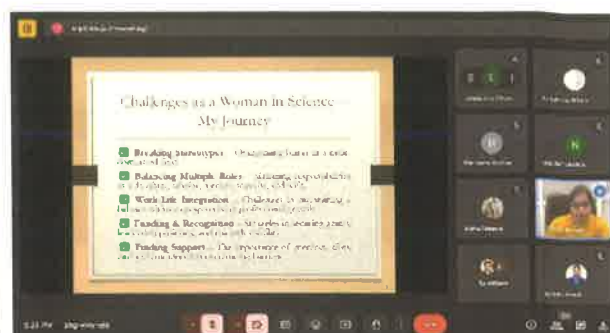


Glimpses of Keynote Lecture IV

❖ Keynote Lecture V

The fifth and final keynote speaker for the seminar was **Dr. Tripti Ahuja, Project Scientist, Common Research and Technology Development Hub, CSIR-Indian Institute of Toxicology Research, Lucknow**. She was also the youngest among all the speakers. The title of her talk was “**Accelerating Equity in Science: Inspiring and Empowering the Next Generation**”. She shared her personal experiences and challenges as a woman scientist like breaking stereotypes, balancing multiple roles and work-life integration. She said that perseverance and seeking the right mentorship are the key points for overcoming barriers. She also shared the data showing the ratio between the degrees obtained by women vs. their share in jobs. Overall, the lecture was very thought-provoking and inspired the young women participants.

Dr. Rachana Kumar
Department of Chemistry
Integral University, Lucknow



Glimpses of Keynote Lecture V

After the session, **Dr. Nidhi Mishra**, Associate Professor, Department of Applied Sciences, Indian Institute of Information Technology, Allahabad and Co-Convenor of the seminar proposed the vote of thanks. She thanked all five speakers for their elaborate and comprehensive deliberations and for motivating the young women to come forward and realize their role in STEM education. She also thanked the convenor **Prof. A.R. Khan**, for his wholehearted support and cooperation. Dr. Nidhi also thanked **Prof. Shraddha Sinha**, Vice-President, ACT, North zone and **Dr. Vijendra Singh**, National Coordinator, GWB for extending support. She also expressed her gratitude towards **Dr. Fahmeena Khan**, the Organizing secretary of the seminar and towards the participants for their enthusiastic participation.

Registrations were obtained from institutions like Aligarh Muslim University, Aligarh, Allahabad University, Aston University, Birmingham, University of Lucknow, S.S. Khanna Girls' Degree College, Allahabad, IIIT-Allahabad, Isabella Thoburn College, Lucknow, Christian Training College, Lucknow, Isabella Thoburn College, Lucknow, Jamia Millia Islamia, New Delhi, Khandwari P.G. College, Chandauli, M.R.M. College Darbhanga, Jaypee Institute of Information Technology, Noida etc.

Fahmeena Khan
 Head Chemistry
 Integral University, Lucknow



Respectfully Submitted by:

Abdul Rahman Khan
12.2.25

Professor Abdul Rahman Khan
Dean, Faculty of Science, &
Head, Department of Chemistry,
Integral University, Lucknow
Head
Department of Chemistry
Integral University, Lucknow