

4<sup>th</sup> International Conference on  
**Recent Trends in Materials Science & Devices 2026**  
**(ICRTMD-2026)**

6-8 April, 2026

Organized by

**Department of Physics of JVMGRR College,  
Charkhi Dadri, Haryana, India**

## **Program Schedule**

**Day: 1**

**Date 06/04/2026**

### **Important Information:**

1. Start time given above indicates Indian Standard Time (IST).
2. Online Presentation will be conducted using Google Meet. Links will be shared on Conference WhatsApp Group in advance.
3. Participants can join their respective sessions by clicking the meet link.
4. The mode of presentation should be power point presentation (ppt or pptx).
5. Duration of presentation: For **keynote/Plenary speakers** is 25 minutes (presentation) + 5 minutes Queries. **(Total number of Slides in PPT must not be more than 25 including first and last slide).**
6. Duration of presentation: For Faculties/Scientists invited Speakers or Speakers: 1 minute introduction by Session Chair, 12 minutes (presentation) + 2 minutes (Queries). **(Total number of Slides in PPT must not be more than 15 including first and last slide).**
7. Duration of presentation: For Students: 8 minutes (presentation) + 2 minutes (Queries). **(Total number of Slides in PPT must not be more than 10 including first and last slide).**
8. All **online poster presenters** must present their poster online as per the Schedule. The online Poster **presentation time is 5 minutes**. The poster presenters must **summarize their idea and key results** in 5 minutes only using the **PPT (Maximum slides not more than 5)**.
9. **Offline posters** will be displayed between 2 PM to 4 PM on 6<sup>th</sup> April 2026.
10. Participants are requested to follow the scheduled time, especially regarding the time for your talk.
11. If there is any problem connecting to the session, please text to any Conference WhatsApp Group admins by clearly mentioning **Technical Session Number, Paper ID and issue** in short for quick response.
12. Participants and Attendees can join any online technical session as per their interest. But their talk will happen as per the scheduled session only.
13. **Cash Awards** will be declared after the Conference.
14. **Eligibility Conditions for Cash Awards:** Attendance is mandatory in all keynotes talks (Offline or Online) and in their scheduled session (where Faculty or Student is going to present their paper).

### **Guidelines**

We kindly request all participants to **familiarize themselves with Google Meet** for presenting or attending sessions by watching tutorial videos available on YouTube or other platforms. This will help ensure a smooth and successful experience during the conference.

**You are requested to follow Virtual meeting etiquettes:**

**The most important: Respect the time slot. Please don't stretch your talk beyond the time limit.**

**Before the meeting:**

- Wear professional attire.
- Log in 5-10 minutes before the meeting to identify any technical problems.
- Have you checked your background?
- Do you have your PPT ready?
- Are all phones on mute/silent?

**During the meeting:**

- Follow the time slots strictly.
- The presenter camera must be on during the talk.
- Mute your mic once you enter the meeting. You can unmute yourself when asked to do so.
- Speak directly into the camera, not at your screen during the presentation.
- Use a clear voice, keep your volume consistent, and speak slowly but firmly.
- Don't make a comment that degrades someone.
- Be respectful to the meeting host and other participants, speakers, session chairs, etc.
- If you face any **technical issue** during your technical session, then there is no need to panic. You should drop a message to any Conference WhatsApp Group admins by clearly mentioning **Technical Session Number, Paper ID and issue** in short for quick response.

**ICRTMD-2026**

**DAY 1**

**06/04/2026**

4<sup>th</sup> International Conference on  
**Recent Trends in Materials Science & Devices 2026**  
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**Program Schedule**

**Day: 1**

**Date 06/04/2026**

**Offline & Online mode (Hybrid mode)**

**Technical Sessions:**

- **Parallel Technical Sessions for Offline Talks: 12.**
- **Parallel Technical Sessions for Online Talks: 3 + 13.**
- **Duration of each Technical Session: 90 minutes**
- **Total Technical Sessions Links: 13 + 1.**
- **Total Technical Sessions on Day-1: 28.**

**Link of Talks: Provided on the top of each Technical Session**

Date	Time	Event
06.04.2026	09:00 AM to 10:00 AM	Registration (For in-person participants only)
06.04.2026	10:00 AM to 11:00 AM	Inaugural Function <b>Offline &amp; Online</b> <b>Link:</b> <a href="https://meet.google.com/spk-kfhu-gvt">https://meet.google.com/spk-kfhu-gvt</a>
<b>06.04.2026</b>	<b>11:00 AM to 11:30 AM</b>	<b>Tea Break for 30 minutes</b>
06.04.2026	11:30 AM to 12:00 PM	Keynote Talk 1: <b>Online</b> <b>Link:</b> <a href="https://meet.google.com/spk-kfhu-gvt">https://meet.google.com/spk-kfhu-gvt</a>
06.04.2026	12:00 PM to 12:30 PM	Keynote Talk 2: <b>Online</b> <b>Link:</b> <a href="https://meet.google.com/spk-kfhu-gvt">https://meet.google.com/spk-kfhu-gvt</a>
06.04.2026	12:30 PM to 01:00 PM	Keynote Talk 3: <b>Offline &amp; Online</b> <b>Link:</b> <a href="https://meet.google.com/spk-kfhu-gvt">https://meet.google.com/spk-kfhu-gvt</a>
<b>06.04.2026</b>	<b>01:00 PM to 02:00 PM</b>	<b>Lunch Break for 60 minutes</b>

Offline Poster Session will be from 2 PM to 4 PM		
6 Parallel Offline Technical Sessions before evening tea & 6 Parallel Technical Sessions after tea.		
06.04.2026	02:00 PM to 03:30 PM	Technical Session: 01 <b>Offline</b> [Invited Faculty/ Scientist Speakers]
06.04.2026	02:00 PM to 03:30 PM	Technical Session: 02 <b>Offline</b> [Invited Faculty/ Scientist Speakers]
06.04.2026	02:00 PM to 03:30 PM	Technical Session: 03 <b>Offline</b> [Invited Faculty/ Scientist Speakers]
06.04.2026	02:00 PM to 03:30 PM	Technical Session: 04 <b>Offline</b> [Invited Faculty/ Scientist Speakers]
06.04.2026	02:00 PM to 03:30 PM	Technical Session: 05 <b>Offline</b> [Invited Faculty/ Scientist Speakers]
06.04.2026	02:00 PM to 03:30 PM	Technical Session: 06 <b>Offline</b> [Invited Faculty/ Scientist Speakers]
06.04.2026	<b>03:30 PM to 04:00 PM</b>	<b>Tea Break for 30 minutes</b>
06.04.2026	04:00 PM to 05:30 PM	Technical Session: 07 <b>Offline</b> [Invited Faculty/ Scientist Speakers]
06.04.2026	04:00 PM to 05:30 PM	Technical Session: 08 <b>Offline</b> [Invited Faculty/ Scientist Speakers]
06.04.2026	04:00 PM to 05:30 PM	Technical Session: 09 <b>Offline</b> [Invited Faculty/ Scientist Speakers]
06.04.2026	04:00 PM to 05:30 PM	Technical Session: 10 <b>Offline</b> [Invited Faculty/ Scientist Speakers]
06.04.2026	04:00 PM to 05:30 PM	Technical Session: 11 <b>Offline</b> [Invited Faculty/ Scientist Speakers]
06.04.2026	04:00 PM to 05:50 PM	Technical Session: 12 <b>Offline</b> [Student Speakers]
3 Parallel Online Technical Sessions based on Poster Presentations from 02:00 pm to 04:00 pm		
06.04.2026	02:00 PM to 03:30 PM	Technical Session: 13 <b>Online</b> Poster Presentations [Invited Faculty/ Scientist Speakers] <b>Link:</b> <a href="https://meet.google.com/oue-sgoq-hek">https://meet.google.com/oue-sgoq-hek</a>
06.04.2026	02:00 PM to 04:00 PM	Technical Session: 14 <b>Online</b> Poster Presentations [Student Speakers] <b>Link:</b> <a href="https://meet.google.com/jfr-bzpz-kgz">https://meet.google.com/jfr-bzpz-kgz</a>
06.04.2026	02:00 PM to 04:00 PM	Technical Session: 15 <b>Online</b> Poster Presentations [Student Speakers] <b>Link:</b> <a href="https://meet.google.com/xei-csoq-hcf">https://meet.google.com/xei-csoq-hcf</a>
06.04.2026	05:00 PM to 06:30 PM	<b>Technical Session: [Keynote Speakers]: Online mode</b> <b>Link:</b> <a href="https://meet.google.com/spk-kfhu-gvt">https://meet.google.com/spk-kfhu-gvt</a>

06.04.2026	05:00 PM to 06:30 PM	Technical Session: 16 Online Presentations [Invited Faculty/ Scientist Speakers] <b>Link:</b> <a href="https://meet.google.com/oue-sgoq-hek">https://meet.google.com/oue-sgoq-hek</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 17 Online Presentations [Invited Faculty/ Scientist Speakers] <b>Link:</b> <a href="https://meet.google.com/jfr-bzpz-kgz">https://meet.google.com/jfr-bzpz-kgz</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 18 Online Presentations [Invited Faculty/ Scientist Speakers] <b>Link:</b> <a href="https://meet.google.com/xei-csoq-hcf">https://meet.google.com/xei-csoq-hcf</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 19 Online Presentations [Invited Faculty/ Scientist Speakers] <b>Link:</b> <a href="https://meet.google.com/ihx-nguh-szb">https://meet.google.com/ihx-nguh-szb</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 20 Online Presentations [Invited Faculty/ Scientist Speakers] <b>Link:</b> <a href="https://meet.google.com/zuh-ctwq-dax">https://meet.google.com/zuh-ctwq-dax</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 21 Online Presentations [Invited Faculty/ Scientist Speakers] <b>Link:</b> <a href="https://meet.google.com/sun-qwvt-ogm">https://meet.google.com/sun-qwvt-ogm</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 22 Online Presentations [Invited Faculty/ Scientist Speakers] <b>Link:</b> <a href="https://meet.google.com/caz-csnm-xhk">https://meet.google.com/caz-csnm-xhk</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 23 Online Presentations [Invited Faculty/ Scientist Speakers] <b>Link:</b> <a href="https://meet.google.com/tfb-xrtj-ntu">https://meet.google.com/tfb-xrtj-ntu</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 24 Online Presentations [Student Speakers] <b>Link:</b> <a href="https://meet.google.com/ujt-yfar-xgf">https://meet.google.com/ujt-yfar-xgf</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 25 Online Presentations [Student Speakers] <b>Link:</b> <a href="https://meet.google.com/ged-paxi-xch">https://meet.google.com/ged-paxi-xch</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 26 Online Presentations [Student Speakers] <b>Link:</b> <a href="https://meet.google.com/fkz-bcba-yfb">https://meet.google.com/fkz-bcba-yfb</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 27 Online Presentations [Student Speakers] <b>Link:</b> <a href="https://meet.google.com/iji-iyuu-hdw">https://meet.google.com/iji-iyuu-hdw</a>
06.04.2026	05:00 PM to 06:30 PM	Technical Session: 28 Online Presentations [Invited Faculty/ Scientist Speakers] <b>Link:</b> <a href="https://meet.google.com/cxi-vipo-uap">https://meet.google.com/cxi-vipo-uap</a>

**Technical Session: 1 [Invited Faculty/ Scientist Speakers]: Offline mode**

Date: 06.04.2026

Time: 02:00 PM to 03:30 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr K.R. Nandagopal	113	Next-Generation Radar Absorbing Materials (RAM) and Functionally Graded Meta-Materials (FGMM) for Stealth-Optimized Hypersonic and Supersonic Aerospace and Missile Platforms in Electronic Battlefield Scenarios
02:15 pm	Dr. Pushpaaletha P	196	Catalytic potential of natural and modified clay minerals from different origins- A comparison
02:30 pm	Dr. Bhagaban Kisan	198	Magnetic, and ferroelectric study on lead-free (1-x)[(0.5)Ba(Zr 0.2 Ti 0.8 )O 3 -(0.5)(Ba 0.7 Ca 0.3 )TiO 3 ]-xNZFO] Ceramics
02:45 pm	Dr. Kavita Kumari	232	Optimization of Structural, Morphological and Magnetic Properties of SmCo-based Nanocomposites
03:00 pm	Dr. K. Sharath Babu	717	Numerical Modeling of Nonlinear Wave Transport in latest Materials for Acoustic and Sensing Devices
03:15 pm to 03:30 pm	Dr. Sangeeta B. Kolavekar	828	Elastic Properties of Lithium Bismuth Borate Glasses a Theoretical Study
<b>03:30 pm to 04:00 pm</b>	<b>Tea Break for 30 minutes</b>		

**Technical Session: 2 [Invited Faculty/ Scientist Speakers]: Offline mode**

Date: 06.04.2026

Time: 02:00 PM to 03:30 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Samarjit Roy	1011	Smart Acoustic Materials and Nano-Enabled Musical Devices for Sustainable Intelligent Internet of Musical Things
02:15 pm	Dr. Ramakrishna Nanchara Rao Manepalli	1058	Tunable 5CB Liquid Crystals with dispersed Phosphor Nanoparticles: A Multifunctional Platform for Microwave and Optical Applications
02:30 pm	Dr. Ruby Ahmed	1166	Sensing VOC using Polyaniline@MoS2 Nanocomposites
02:45 pm	Dr. Chetan K. Modi	155	Emerging Graphene Platforms: Nanocatalysts Driving Sustainable Organic Transformations
03:00 pm	Dr. Shakeel Ahmed	1233	Polymeric Composite Materials for Sustainable Environmental Remediation
03:15 pm to 03:30 pm	Professor (Dr) Biswa Bandita Kar	1411	Fabrication of a specific Zeolite based green concrete for CO2 Storage
<b>03:30 pm to 04:00 pm</b>	<b>Tea Break for 30 minutes</b>		

**Technical Session: 3 [Invited Faculty/ Scientist Speakers]: Offline mode**

Date: 06.04.2026

Time: 02:00 PM to 03:30 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Pranita Manish Potey	562	Design and integration of wearable textile Antenna
02:15 pm	Dr. Divya Puri	1431	Sustainable Packaging Solutions from Onion Waste: A Bio-Inspired Circular Approach
02:30 pm	Dr. Ramesh Kumar	397	Thermoelectric Performance of Graphene/MoS <sub>2</sub> Heterostructure
02:45 pm	Mr. Shiv Kant	299	Materials Used in Quantum Computing: Challenges and Opportunities
03:00 pm	Ms. Swaprabha P. Patel, Dr. Ashish M. Gujarathi	1490	Optimization of an Industrial Carbon Capture Process for Enhanced Energy Efficiency, Emissions Reduction, and Product Quality
03:15 pm to 03:30 pm	Dr. Manjeet Singh	1594	Influence of Nano-Sized Ion Grains on Magnetosonic Wave Propagation in Ion-Implanted Semiconductor Plasma
<b>03:30 pm to 04:00 pm</b>	<b>Tea Break for 30 minutes</b>		

**Technical Session: 4 [Invited Faculty/ Scientist Speakers]: Offline mode**

Date: 06.04.2026

Time: 02:00 PM to 03:30 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Mohd Zubair Ansari	452	Investigating CZTS: A sulfur-dependent Solvothermal Synthesis for Charge Storage via Structural, Optical, Morphological, and Cyclic Voltammetry Analysis
02:15 pm	Dr. Savita Kashyap	856	Towards Scalable and Sustainable Solar Cells: The Role of Advanced Materials
02:30 pm	Dr. Jatindranath Gain	154	Resonant Tunneling in Asymmetric Coupled Multiple Quantum Well Nanostructures Based on Effective Mass
02:45 pm	Dr. Toreshettahally R. Swaroop	164	New Aryl-Substituted 2,2'-Bithiophenes: Synthesis, Optoelectronic Properties and DFT Studies
03:00 pm	Dr. Jasabanta Sekhar Hansdah	478	Effect of carbon ion implantation on the superconducting properties of MgB <sub>2</sub> bulks prepared by powder-in-sealed-tube method
03:15 pm to 03:30 pm	Dr. Manoj Mishra	797	Impact of Nematic Liquid Crystals on Soliton Dynamics
<b>03:30 pm to 04:00 pm</b>	<b>Tea Break for 30 minutes</b>		

**Technical Session: 5 [Invited Faculty/ Scientist Speakers]: Offline mode**

Date: 06.04.2026

Time: 02:00 PM to 03:30 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Venkateswara Rao Kolli	921	Dual-Parameter Investigation of Pipeline Integrity: Fiber Bragg Gratings for Monitoring Corrosion Severity and Leakage Localization.
02:15 pm	Dr. Ankita Behl	192	"From Human to Mosquito: Inhibiting the Cold-Stress Adaptation Machinery of Plasmodium falciparum"
02:30 pm	Dr. Sangeeta Kumari	1015	Reflection Characteristics of Plane Waves at an interface between Microstretch Thermoelastic and Hygro-Thermoelastic Medium
02:45 pm	Dr. Atikur Rahman	1176	Synthesis, Characterization and Oxidation behavior of magnetron sputtered CoAlTa/Hf coating on superalloy 718
03:00 pm	Dr. Rakesh Manilal H. Patel	102	A Coupled Diffusion–Electrochemistry–Mechanics Approach: Mathematical Modeling and Performance Assessment of Polymer Nano composite Coatings for Pipeline Corrosion Mitigation
03:15 pm to 03:30 pm	Dr. Amodini Mishra	140	Hybrid Carbon–Magnetic Smart Materials for High-Efficiency Water Purification and SERS Monitoring
<b>03:30 pm to 04:00 pm</b>	<b>Tea Break for 30 minutes</b>		

**Technical Session: 6 [Invited Faculty/ Scientist Speakers]: Offline mode**

Date: 06.04.2026

Time: 02:00 PM to 03:30 PM

Time	Authors	Paper ID	Paper Title
02:00 pm	Dr. Sheela Devi	178	Role of Multiscale and Multifunctional Bismuth Ferrite Materials for Energy Storage Applications
02:15 pm	Dr. Manjusha M V	193	Perovskite Nanomaterials Based on Pristine and Fe-Doped Barium Titanate: Structure-Biointerface Correlations for Antibacterial and Anticancer Applications
02:30 pm	Dr Kshetra Mohan Dehury	272	Structural dependent exciton features in phenyl group-based inorganic-organic hybrid semiconductors
02:45 pm	Dr Bhaswati Bhattacharya	279	Biopolymer Nano-Composite Coating for Cherry Tomato Preservation
03:00 pm	Dr. Abhishek Saxena	395	Iron Nanoparticles as Smart Harvesting Agents for Microalgal Bioprocesses
03:15 pm to 03:30 pm	Dr. Gaurav Singh	502	Sustainable Valorization of Sugarcane Bagasse via Serratia marcescens NITDPER1 for the Concurrent Production of Prodigiosin and Biopolymeric Nanocarriers: An Integrated Biorefinery Approach
<b>03:30 pm to 04:00 pm</b>	<b>Tea Break for 30 minutes</b>		

**Technical Session: 7 [Invited Faculty/ Scientist Speakers]: Offline mode**

Date: 06.04.2026

Time: 04:00 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
04:00 pm	Dr. Virendra Kumar Yadav	622	Synthesis and characterization of iron oxide nanoparticles from coal fly ash
04:15 pm	Dr. Mehar Singh	714	Emergent Trends in Hybrid Nanostructures: Integrating Functionality and Environmental Concerns
04:30 pm	Dr. Manisha Kumari	786	Synthesis and Characterization of Nanomaterials
04:45 pm	Dr. Anuvasita Parikh	252	Investigation of Chromium Ion Adsorption on the Glucose-Based Amorphous Cu-MOF through Advanced Analytical Techniques
05:00 pm	Dr. Deepak Byotra	485	Impact of Texture Configurations, Density and Nanoparticle Additives on the Static Performance of Hydrodynamic Journal Bearing
05:15 pm to 05:30 pm	Dr. Sana Qausain	497	Spectroscopic and Thermodynamic Characterization of Protein Stability Under Disease-Relevant Stress Conditions

**Technical Session: 8 [Invited Faculty/ Scientist Speakers]: Offline mode**

Date: 06.04.2026

Time: 04:00 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
04:00 pm	Dr. Indrajit Sen	1373	Role of Chromatography and Mass Spectrometry in Advanced Materials Research and Development.
04:15 pm	Dr Pawan Kaur	144	Silica-based NanoDelivery Systems for Smart Agri-Inputs
04:30 pm	Dr. Lakhbir Singh Brar	302	Influence of Inlet Duct Orientation and Configuration on the Performance and Wall Erosion of Cyclone Separators
04:45 pm	Dr. Jitin Rahul	512	Assessment of Heavy Metal Accumulation along the Roadside Plant Species: Implications for Sustainable Environmental Monitoring
05:00 pm	Prof. (Dr.) D P Chattopadhyay	820	Nano-Engineered Chitosan: Green Solutions for Functional Textiles and Biomedicine
05:15 pm to 05:30 pm	Dr. Amrita Hooda	1611	Recent Advances in Superhydrophobic Coatings for Corrosion Protection and Functional Surfaces: A Review

**Technical Session: 9 [Invited Faculty/ Scientist Speakers]: Offline mode**

Date: 06.04.2026

Time: 04:00 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
04:00 pm	Dr. Swati Gupta	1021	Environment and Sustainable Development
04:15 pm	Dr. Amar Jyoti Das	1245	Bioprocess Intensification and Sustainability Assessment of Sophorolipid Production in a Circular Biorefinery Framework
04:30 pm	Dr. Bibhas Kumar Bhunia	162	Development of Biomimetic Artificial Spinal Disc using Biopolymers
04:45 pm	Dr. S. Pugalanthi Pandian	173	Synthetic bone graft-a dream come true
05:00 pm			
05:15 pm to 05:30 pm			

**Technical Session: 10 [Invited Faculty/ Scientist Speakers]: Offline mode**

Date: 06.04.2026

Time: 04:00 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
04:00 pm	Dr Swati Kaushik	180	Use of Biomaterials in pharmaceutical preparations: A pharmacological perspective
04:15 pm	Dr. V. Gayathri	191	Synthesis of an electrospun nanofiber scaffold for the treatment of excision wounds from <i>Strobilanthes alternata</i> (Burm.f.) Moylan ex J.R.I. Wood.
04:30 pm	Dr. Vivek Semwal	270	Emerging Developments in Plasmonic Biosensing
04:45 pm	Prof. Rachana R	394	Preparation and Characterization of Nano-liposomal Formulation for Respiratory Disorders
05:00 pm	Dr. Ambika Prasad Khadanga Mahapatra	406	Cell is not the Unit of Life nor the Life has any cell
05:15 pm to 05:30 pm	Dr. Mohd Basheeruddin	641	Biomedical Material:Based Drug Delivery Systems for Osmoprotectant-Assisted Cancer Therapy

**Technical Session: 11 [Invited Faculty/ Scientist Speakers]: Offline mode**

Date: 06.04.2026

Time: 04:00 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
04:00 pm	Dr. Vijay Kumar Goel	1394	Discovery of Novel Anti-Malarials using Structure-Based Drug-Design Tools.
04:15 pm	Dr Sunita Devi	1354	Chicken feather waste: From environmental burden to organic fertilizer through microbial processing

04:30 pm	Dr. Shuhaib Mushtaq	1139	Mechanical and Tribological Properties in Glass fiber-filled Polytetrafluoroethylene (GF/PTFE) Composites for Snow Clearance Applications
04:45 pm	Dr Y Srinivasa Rao	1410	Bridging the Gap Between Theory and Practice: IoT-Based Hardware–Software Integration Across Engineering Disciplines
05:00 pm to 05:15 pm	Ms. Monika	1350	Design and Material Optimization of a 2.45 GHz, 35 kV Waveguide DC Break for ECR Ion Source

### Technical Session: 12 [Student Speakers]: Offline mode

Date: 06.04.2026

Time: 04:00 PM to 05:30 PM

Time	Authors	Paper ID	Paper Title
04:00 pm	Ms. Arpita Rana	430	Non-trivial exchange interaction in $S = 1/2$ Ising Kagome antiferromagnet $\text{Na}_5\text{Co}_{15.5}\text{Te}_6\text{O}_{36}$
04:10 pm	Dr. Mahima Sheoran	767	Experimental Investigation of Performance of Low-Temperature Epoxy-based Adhesive for Cryopumps
04:20 pm	Mr. Jebin Fernandez	212	Comparative Structural, Optical, Photocatalytic, and Antibacterial Properties of Green-Synthesized and Chemically Synthesized Strontium Titanate Nanoparticles
04:30 pm	Mr. S. Manikanta, Ms. R. Khushi Ratan	215	Effect of Cutting Parameters on Cutting Forces for Turning of Al/Garnet/Graphite Metal Matrix Composites
04:40 pm	Ms. Sangeeta Banerjee	966	Green Synthesis of Biocompatible Iron Oxide Nanoparticles from Invasive Parthenium hysterophorus for Sustainable Production of Multifunctional Green Materials for Waste Reduction, Biological and Photocatalytic Applications
04:50 pm	Mr. Blesson Tom Mathew	1253	Green Synthesis of Multifunctional Regenerated Cellulosic Fibers from Textile Waste for Sustainable Polymer Applications
05:00 pm	Mr. Prabhu Avisheak	1270	Performance evaluation of concrete pavements incorporating Recycled Concrete Aggregates and GGBFS
05:10 pm	Mr. Bo Bo Han	1020	Highly Graphene-based Ti-TiC-Si broadband solar thermal absorber for domestic renewable energy applications
05:20 pm	Wedad Ali Farea Alwesabi	1118	The Influence of Binder and Current Collector on the Electrochemical Performance of CPLSG Cathode for Aluminum Ion Batteries
05:30 pm	Mr. Abhishek Kumar Sahu	1167	Enhanced electrochemical performance of Mn-Doped $\text{Ba}(\text{OH})_2$ electrode for supercapacitor application
05:40 pm	Mr. Arockiya Amalraj S	866	Tuning Room Temperature Phosphorescence by Molecular Packing
05:50 pm	Mr. Ramesh Sivasamy	1479	Bandgap Engineering in Cyanothiazole–Copper(I) Complexes: Tunable Electronic Structure for Optoelectronic Applications
06:00 pm	Md. Ajmal Hussain	1584	Numerical Assessment of Damages Caused by TNT Explosions to Slabs from Normal to Advanced Concrete

**Poster Presentations: [Invited Faculty / Student Speakers]: Offline mode**

Date: 06.04.2026

Time: 02:00 PM to 04:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm to 04:00 pm	Dr. Sardul Singh Dhayal	522	Wettability Physics and Its Direct Impact on Thin-Film Sensor Performance
	Ms. Geetanjali Joshi, Dr. Kamal Batra	1201	Machine Learning, Deep Learning, and Process-Based Models for Wheat Yield Prediction: A Comprehensive Review
	Ms. Jyoti	147	Hydrogen storage on V-doped Graphsene: A DFT study
	Ms. Suman Rani	189	Development of Agarose-Based Interconnected Co-Culture System using an Indigenous Device
	Mr. Yogesh Kumar Sharma	337	Growth and Characterization of High-Entropy Oxide (HEOs) in Rock Salt Structure
	Ms. Manisha	356	Synthesis of Ag <sub>2</sub> Se Powder and Its Processing into Thin Films for Functional Material Applications
	Ms. Mohini Dagar	567	Constructed Wetland Embedded with Biochar for Improved Pharmaceutical Remediation
	Ms. Riya	1191	ZnS Nanoparticles Fabricated Melamine-Formaldehyde Polymer-Based Nanocomposites for Sunlight Assisted Photodegradation of Tetracycline Antibiotic
	Ms. Anjika	1192	Biodegradable Nanogels in Anticancer Therapy
	Ms. Gayatri Yeshwant Gurav	1200	Comparative Analysis of Super-Resolution Methods for Confidence-Aware Inclusion Rating in Steel Microstructures
	Mr. Kamaldeep singh	222	COLOURED TITANIUM OXIDE NANOMATERIALS
	Ms. Sonika Luhach	365	Recent advances in magnetic and electrochemical properties of SmFeO <sub>3</sub>
	Ms. Sanvi	848	Laser diode characteristics
	Ms. Shakshi	1193	Biodegradable hydrogels as drug delivery agents
Mr. Aditya Thapliyal	1259	Optimizing Pretreatment Processes for Sustainable Biosurfactant Production from Agro-Industrial Residues	

**Technical Session: 13 Poster Presentations [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/oue-sgog-hek>

Date: 06.04.2026

Time: 02:00 PM to 03:30 PM

Time	Authors	Paper ID	Paper Title
02:00 pm to 03:30 pm	Dr. İrada Shirinzada	179	Study of the composition of raw materials used to produce refractory materials in Azerbaijan
	Dr. Hamidova Ayten	207	The effect of thermal modification on the properties of wood

Mr. Venkata Krishna Chaitanya Nuthalapati	1498	Failure Patterns and Reliability Strategies in Large-Scale Distributed Data Systems
Dr. Andrew YT Leung	1548	Stability and Aging Monitoring of Construction Tower Crane using Digital Triple AI
Dr. Saroj Rani	228	Electrical Transport Properties of Heavy Metal-Containing Glasses
Dr. Sapna P	315	Enhancing Crystal Quality and Reducing Dislocation Density in CTS Thin Films using TEA as a Complexing Agent
Mr. Sirsendu Gayen	182	Mangrove Forests: Nature's Most Effective Shield Against the Impacts of Climate Change
Dr. Annu Rani	186	A Comparative study of Predicting earthquakes using neural networks
Dr. Mounika Veeraiyan	806	Extraction, characterization of nano-hydroxyapatite derived from lobster (Panulirus Homarus Homarus) shells bio-waste
Dr. Safa Faris Kayed	836	Sustainable Vanillin-Based Binuclear Metal Complexes for Photocatalytic Wastewater Treatment
Dr. N. Hemalatha	209	Performance of High Efficiency Perovskite-Based Photovoltaic Arrays for Next-Generation Energy Systems
Dr. Salam Kiranmala Chanu	1177	Electromagnetic effects on the structure and stability of Gravastar in $f(R, Lm, T)$ gravity
Dr. Raminder Kaur	604	Synthesis of Tin Ferrite Nanoparticles and their Electrochemical Properties
Dr. Neha Sameer Shahare	588	Quantum and Nanoscale Effects in Electronic and Optoelectronic Materials for Solid-State Devices
Dr Merin Mathew	963	Effect of Fiber length and loading on Mechanical properties of Plasma Treated Polypropylene Fiber Reinforced Polymethylmethacrylate Denture Base Composites
Dr. Rajammal Karuppiah	160	Sustainable Fabrication of ZnO Nanoparticles via Pandanus Leaf Extract and Their Photocatalytic Properties
Dr. R. Sanjeevi	831	Green Synthesis of Mono-metallic Theranostic Agents and its Antimicrobial Applications
Dr. Pascalau Raul	1423	INNOVATIVE MATERIALS AND TECHNOLOGIES FOR CLIMATE-RESILIENT AGRICULTURE

**Technical Session: 14 Poster Presentations [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/jfr-bzpz-kgz>

Date: 06.04.2026

Time: 02:00 PM to 04:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm to 04:00 pm	Mr. Ramesh Kumar	187	Comprehensive Analytical Profiling of Heavy Metals and Physico-Chemical Parameters in Capsicum annum Seed Oil from Western Haryana
	Ms. Akshata P. Naragatti	810	Scattering based Transport properties of Wurzite PbTe: A theoretical study.
	Ms. Khayala Jamalova Baba	108	Study of the friction index of modified polyethylene terephthalate

Mr. Mayank Sharma	605	Effect of Sr Doping on Structural, Optical and Electrical Properties of LaCrO <sub>3</sub>
Mr. Anshul Khare	695	Effect of Vanadium Doping on Structural and Dielectric Properties of Layered Sr <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub>
Ms. Pragati	783	Investigation of structural and dielectrics properties of NiCr <sub>2</sub> O <sub>4</sub> Spinel
Mr. Pradeep Kumar	812	Structural and dielectric study of ilmenite CoTiO <sub>3</sub>
Mr. Supravat Malas	818	Structural and dielectric properties of NiTiO <sub>3</sub>
Ms. Obu Hilda Uno	1049	pH-Dependent Electronic Structure of Aromatic Amino Acids: A DFT/TDDFT Study
Mr. Sahil Bhartu	1220	Study of Application of Drugs using Green Corrosion Inhibition on Mild Steel
Gurbanova Rahila	1255	Determination of mechanical properties of durable modified fiber-reinforced concrete
Ms. Yashika Soni	739	Chronic Aspirin Exposure Disrupts Gill Architecture in the Freshwater Fish <i>Channa punctatus</i>
Ms. Jagriti Singh	740	Macroplastics in an Urban River System: Evidence from the Gomti River, Lucknow Uttar Pradesh
Ms. Navneet	1130	Spatial Distribution and Pollution Assessment of Heavy Elements in Agricultural Soils Near an Industrial Area Using EDXRF
Ms. Sharon Ponsily C	455	Implementation of Scholar Link Hub – A Web-Based Scholarship Management System
Ms. Sivasankari M	457	Implementation of ProFile Hub – A Student Profile & Resume Management System for Educational Institutions
Ms. Priyadarshini M	474	Implementation of Bus Tracker – A Web-Based MTC Bus Tracker System
Ms. Srividhya B	499	Implementation of BuzzyBot – A Web-Based Verified Pair Chat Application System
Mr. Mrigank Mauli Verma	741	An Electro-Thermal Extension of the 4-KiVM Battery Model under Variable Load and Ambient Conditions
Mr. Ashish Sharma	895	Assessment and Analysis of Soil and Water Contamination around landfill sites in Okhla, Delhi
Ms. Gurman Kaur	1294	Valorization of Agro-Waste: Biochar-Based Heterogeneous Catalysts for Sustainable Biodiesel
BEATRICE LYEJA ANAK KAYOK	1367	Educational Intervention to Improve Readiness among Malaysian Youth on Food Waste Reduction and Resource Recovery in Bintulu, Sarawak
Dr. Hrushikesh Sonawane	1534	To evaluate the role of prf membrane in socket preservation and prevention of periodontal defects after extraction of impacted mandibular third molar – a prospective randomized split mouth clinical trial
Dr Astha Bhatt	1537	A comparative split face clinical trial of PRP injections and PRP microneedling on facial rejuvenation
Dr. Manvi	1554	Piezo-surgery in Oral and Maxillofacial Surgery
Ms Rashi	1556	Impact of Hospital Waste Incineration on Soil and water Heavy Metal Levels in Surrounding Areas

Technical Session: 15 **Poster Presentations** [Student Speakers]: **Online mode**

Link: <https://meet.google.com/xei-csoq-hcf>

Date: 06.04.2026

Time: 02:00 PM to 04:00 PM

Time	Authors	Paper ID	Paper Title
02:00 pm to 04:00 pm	Ms. Nivetha E	1505	Development of Eco Friendly Bricks Using Textile Sludge
	Dr. Sudipta Dash	1230	Computational Exploration of KZrTe <sub>3</sub> Perovskite for Optoelectronic Applications
	Mr. Mayukh Bandyopadhyay	746	Effective Floquet Hamiltonians for High Frequency Driving and Heating in Periodically Driven Spin Chains
	Ms. D Mouna Sree	778	Study of quantum gate noise effects on arithmetic circuits using Qiskit noise models
	Ms. Poonkodi R	1353	A Neuro-Fuzzy Multi-Objective Optimization Model for Inventory Replenishment and Last-Mile Delivery Planning under Uncertain Demand in E-commerce
	Mr. Raj Kumar	958	Crystallographic Study of NiO Nanoparticles Synthesized via Co-precipitation Method
	Ms. Snigdha Chowdhury	685	Optical and Dielectric Properties of Mn doped Lead-Free Perovskite
	Mr. Praveen Kumar Vishwakarma	712	Red Emitting Eu <sup>3+</sup> Doped SrNb <sub>2</sub> O <sub>6</sub> Phosphors: Structural and Luminescence Studies
	Ms. Monika Kumari Chejara	692	Electrical and Optical Properties of Nb-Doped SrTiO <sub>3</sub> for TCO Applications
	Mr. Sandip Ruidas	824	Temperature-Dependent Properties of Copper Oxide Prepared by Thermal Decomposition of Copper Nitrate
	Yaroslavna Kashyrina	683	Thermodynamic assessment of ternary Al-Ni-Sn system
	Ms. Monika D, Ms. Pallavi Hembrom	1106	Development of a Novel Umbilical Cord-Based Biomimetic Scaffold for Tissue Engineering and Biomedical Implant Applications
	Jhalak Gupta	1371	Thioamides As Bio Isosteres: Enhancing Peptide Stability
	Ms. Monika Malhotra	119	Fe-MOF/MoO <sub>3</sub> heterojunction and peroxymonosulfate activation for fluoroquinolone antibiotic degradation
	Ms. Aishwarya Arvind	361	A dual mode detecting Chitosan-L-Cystine stabilized-Copper nanocluster decorated ZIF-8 MOF sensor for sensitive monitoring of cortisol : Stress biomarker
	Ms. Asfiya Ansari	1006	Nonlinear Absorption of High Power Laser beam in Vertically Aligned Magnetized Anharmonic CNT Arrays
	Ms. Pritilata Adhikary, Ms. Debasmita Saha	1146	Synergistic Role of Biogenic Iron Oxide Nanoparticles and Pseudomonas geniculata in Alleviating Heavy Metal Stress in Vigna radiata
	Ms. Bhoomika	1375	“Magnetized Acacia Gum Nanocomposite as a Sustainable Adsorbent for Efficient Removal of Malachite Green Dye from Wastewater”
	Mr. Krantikumar Rajesh Warak	1202	BET Inhibition and Topoisomerase II Targeting via Chitosan Nanoparticle Co-Delivery: Preliminary Analysis on A Synergistic Strategy for Ovarian Cancer Treatment
	Dr. Jayanta Dolai	1452	Hydroxyapatite Nanowire-based Piezoelectric Film for Ultrasonic Electroporation-induced Drug Delivery
Ms. Archana S	1260	SHE-AGENT: An AI-Driven Digital Advisory System for Transforming Homemaker Skills into Sustainable Micro-Entrepreneurship	
Ms. Rajani L Karigar	774	Supercapacitive Performance of Ex-situ Fabricated PANI/V <sub>2</sub> O <sub>5</sub> Polymer Nanocomposite	

	Ms. Srishti Seshan	1567	Smart Devices, Silent Risks: Navigating Regulations, Risks and Vigilance in Biomedical Devices
	Mr. Sumit Kadayan	1578	Numerical Investigation of Capric Acid-Based Passive Thermal Management for LiFePO <sub>4</sub> Lithium-Ion Batteries Across Multiple Cell Geometries Under 3C Discharge Conditions
	Mr. Janumpally Sushanth Reddy	1586	Using SCAPS as a numerical simulation gateway for optimization and performance enhancement of perovskite solar cells

**Technical Session: [Keynote Speakers]: Online mode**

**Link:** <https://meet.google.com/spk-kfhu-gvt>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Nikolas Király	5	Azo-Carboxylate Ligands in MOF Chemistry: From Early Architectures to Advanced Porous Frameworks
05:30 pm	Dr. Miroslav Almasi	6	MOF-76: Beyond a Single Framework
06:00 pm	Prof. Murali Mohan Cheepu	4	Adaptive Intelligent Systems for Next-Generation Additive Manufacturing
06:30 pm	Dr. Manjeet Singh Goyat	7	Design and Integration of Versatile Nanostructured Materials for Energy Systems, Surface Protection, and Composite Reinforcement

**Technical Session: 16 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/oue-sgoq-hek>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Raimondas Kreivaitis	1439	Protic ionic liquids and nanoparticles additives for water-based lubricants
05:15 pm	Dr. Pravas Ranjan Behera	1444	Sustainable Production of Green and Clean Steel with Zero GHG emission by Hydrogen Plasma Smelting Reduction Technique
05:30 pm	Dr. Subhadeep Roy	1464	Experimental and numerical optimization of mechanical properties of PVA Nanocomposites with Molybdenum disulfide Quantum dots
05:45 pm	Dr. Hemant Kumar	1476	Material Innovations and Sustainable Pathways for Solar-Battery Storage
06:00 pm	Dr. Daniela Haidu	1494	Standardized black chokeberry extracts: view on inorganic elements and biological insights on human pulmonary artery endothelial cells

06:15 pm to 06:30 pm	Dr. Amika	1511	Advancing Sustainable Hydrogen Production through Generative AI-Assisted Catalyst Discovery and Process Engineering”
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**Technical Session: 17 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/jfr-bzpz-kgz>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Priyadarshini Parida	1522	Comprehensive First-Principles Study of Defect Chalcopyrite ZnGa <sub>2</sub> S <sub>4</sub> : Dynamic Stability and Thermoelectric Performance
05:15 pm	Mr. Rajesh Kumar	1524	Influence of Ionic Strength and Electrolyte Type on Procion M Dye Fixation and Surface Properties of Reactive-Dyed Cellophane
05:30 pm	Dr. R.P. Chaudhary	1527	Predictions of Stability Functions for Cd-In Liquid Alloys at Various Temperatures
05:45 pm	Dr. Sachin Janardan Kamble	1530	A review on anticancer efficacy of sulphur containing heterocyclic compounds
06:00 pm	Dr. Ravi Pathak	1531	Si-Si and Si-Glass direct wafer bonding and layer transfer using ion-cut process
06:15 pm to 06:30 pm	Dr. Manisha Solanki	1532	A Clinical Study to Evaluate the Effectiveness of Direct Sinus Lift Procedure in Maxillary Dental Implant Placement for Rehabilitation of Severely Resorbed Maxillary Arches

**Technical Session: 18 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/xei-csoq-hcf>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. K. Ayshathil Bushra	1535	Design and Fabrication of Paper-Based Field-Effect Transistor (PFET) for Biosensing Applications
05:15 pm	Dr. Rajeswari Roy Chowdhury	1538	Large Anomalous Hall Effect in a Room Temperature Magnetic High Entropy Alloy
05:30 pm	Dr. NINI R KUOTSU	1542	A COMPREHENSIVE REVIEW ON ADVANCED PROTECTED HORTICULTURE IN HUMID SUBTROPICAL CLIMATE
05:45 pm	Dr. Ayekpam Bimolini Devi	1549	Valorization of Edible Wild Fruit into Green Carbon Dots: Characterization and Multifunctional Bioactivities
06:00 pm	Dr. Rajesh Kumar Lal	1552	Hybrid Metaheuristic Optimization and Comparative Analysis of InGaAs/InP Quantum Well Infrared Photodetector for Enhanced Performance
06:15 pm to 06:30 pm	Dr. Swapnil C Raskar	1555	FROM KITCHEN TO CLINIC: AYURVEDA'S CIRCULAR USE OF OILS

**Technical Session: 19 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/ihx-nguh-szb>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Indresh Kumar Maurya	1558	Antibacterial Evaluation of Green-Synthesized Silver Nanoparticles Using Himalayan High Altitude Medicinal Plants
05:15 pm	Dr.Hema Kumar C	1559	NUTRACEUTICALS FOR THE PREVENTION AND TREATMENT OF LIFESTYLE DISORDERS
05:30 pm	Dr. Prabha Modi	1560	Mechanochemical Synthesis of Biomass-Derived Nanomaterials for Green EOR in Indian Reservoirs
05:45 pm			
06:00 pm	Dr. V. Jayashree	1564	Reflectance material classification using optimized deep learning and change detection of LANDSAT surface reflectance images
06:15 pm to 06:30 pm	Dr Shilpa G M	1569	Measurement of <sup>222</sup> Rn concentration in drinking water in the environs of Thirthahalli taluk, Karnataka, India

**Technical Session: 20 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/zuh-ctwq-dax>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Sunitha V R	1571	Effect of nano size ceramic fillers on sodium ion conduction in PEO based solid polymer electrolytes
05:15 pm	Dr. Pallabi Saikia	1572	Sustainable Synthesis of Silver Nanoparticles under mild reaction Conditions
05:30 pm	Dr. Gopal Arora	1576	Preparation and Characterization of Hydroxypropyl Guar Gum based Polymer Composites
05:45 pm	Dr. Nusrat Nabi	1577	Where Innovation Meets Safety: Regulating Risks and Ensuring Vigilance in Biomedical Devices
06:00 pm	Dr. Priyanka Srivastava	1580	Regenerative anti-infective wound healing materials
06:15 pm to 06:30 pm	Dr. Raunak Kumar Das	1587	Nuclear Morphometric Analysis: a potential method for detection of material biocompatibility

**Technical Session: 21 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/sun-qwvt-ogm>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Shahera S. Patel	1589	Design, Performance Analysis and IoT-Enabled Smart Sensing of AgGaTe <sub>2</sub> Compound

			Semiconductor Based Devices for Optical Sensing Applications
05:15 pm	Dr. M. Shyamalagowri	1595	Advanced Battery Materials for High-Efficiency Energy Storage in Electric Vehicle and Renewable Energy Systems
05:30 pm	Dr Minal M Kshirsagar	1596	Basic steps and career opportunities in Research
05:45 pm	Ms. Susmita Kumari Yadav	1598	Gastroprotective Effects of Green Synthesised Silver Nanoparticles Using Artocarpus Lakoocha Leaves Improves Oxidative Stress and Control Inflammation Modulating Via Inflammatory Markers in Ethanol Induced Ulcer Model in Mice
06:00 pm	Dr. Tamanna Lakhapal	1601	Emerging role of nanoparticles in theranostics
06:15 pm to 06:30 pm	Dr. A. Geetha	1603	Electrolyte - Dependent Ion Transport Dynamics in MnMoO <sub>4</sub> electrodes for Supercapacitor Applications

**Technical Session: 22 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/caz-csnm-xhk>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. S. Sathik Basha	1607	Composition-tunable, structural and optical properties of tin based perovskite material for optoelectronics applications
05:15 pm	Dr. D. Lakshmi	1608	AI-Driven Clinical Diagnostics using Deep CNNs for Multi-Modal Medical Images
05:30 pm	Dr. Adik Sharada Navnath	1612	Recent Advances in Polymeric Biomedical Materials for the Early Diagnostic Monitoring of Acute Kidney Injury and COPD
05:45 pm	Dr. Debasish Majumder	1615	AI and Fuzzy Intelligence for Next-Generation Materials and Smart Devices
06:00 pm	Dr. Richa Jain	1620	Advanced Insights into X-ray Diffraction of Ferrite Nanoparticles
06:15 pm to 06:30 pm	Dr Sruthy Prathap	1621	Evaluation of the Cell Viability and In Vivo Biocompatibility of Three Potential Regenerative Biomaterials Derived from Eggshells in Wistar Rats

**Technical Session: 23 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/tfb-xrtj-ntu>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Priya A Hoskeri	1622	Thin Film Electrochromics in Energy Storage and Sensing Applications
05:15 pm	Dr. M. K. Bhanarkar, Mr. Ratnadeep Deshmukh	1625	Validation of Compact Multiband Meandered Shape Antenna

05:30 pm	Dr. Ujwala M. Pagar (Mhaske)	1626	Influence of annealing on electrical and optical properties of NiO Screen printed thick film as optical Sensors
05:45 pm	Dr. Ceyda ICSEL	1628	Silver(I) 5,5-diethylbarbiturate complexes as antimicrobial biomaterials
06:00 pm	Dr. Darshan Sharma	1631	Ethanol-Assisted Facile Synthesis of ZnO/g-C <sub>3</sub> N <sub>4</sub> Heterojunctions: Enhanced Charge Separation and Photocatalytic Performance under Natural Sunlight
06:15 pm to 06:30 pm	Dr. Jyoti Rawat	1550	Biochemical and Cellular Responses of Chlorella sorokiniana to Polyethylene Microplastic Stress

**Technical Session: 24 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/ujt-yfar-xgf>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Mr. Shashank Shekhar	387	Effect of Mg Doping Concentration on the Photodegradation of Methyl Orange Using ZnS Photocatalysts
05:10 pm	Mr. Suyash Kumar	1400	Design and Development of O <sub>3</sub> -Type Cathode Materials for Sodium-Ion Batteries
05:20 pm	Ms. Ehalawaarkuzhali N.P	1404	Study the behaviour of Underwater Concrete Columns using non-dispersive mortar and Stainless-Steel tubes
05:30 pm	Ms. Jaseela Janath. P. A.	1425	URBAN HEAT ISLAND ASSESSMENT OF TRIVANDRUM DISTRICT USING GIS
05:40 pm	Mr. Casper Jerry	1429	Performance Evaluation of GGBS Blended Concrete with Partial Replacement of Coarse Aggregate by Graded Coconut Shell Fragments
05:50 pm	Dr. G.S.Uthayakumar	1451	GenAI and its applications in Biomedical industry
06:00 pm	Ms. M. Pravallika	1496	Sustainable Agro waste based Hybrid Biocomposites for Cold Storage Applications
06:10 pm	Ms. G. Srija	1500	Fabrication and Characterisation of Sustainable Rice Husk Reinforced Biodegradable Composites
06:20 pm to 06:30 pm	Dr. G.S.Uthayakumar	1502	Patient Monitoring System Using Li-Fi for Secure and Interference-Free Healthcare Communication

**Technical Session: 25 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/ged-paxi-xch>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Mr. Atanu Kabiraj	1512	Exploring Nano-Bio Complex Formation and Rheological Characteristics for Biofluidic Applications
05:10 pm	Mr. Raziq Khan Idris Khan	1514	Sustainable Catalysis Using Deep Eutectic Solvents: A Green Approach to Aldol and Esterification Reactions

05:20 pm	Mr. Mohd Aamir	1525	Numerical Investigation of Blast-Induced Structural Response of a Bowstring Steel Girder Bridge Considering Eccentric Blast Locations and Supports
05:30 pm	Mr. Nabin Kumar Roy	1526	Thermodynamic characteristics of Au-Cu melts over a range of temperature
05:40 pm	Mr. Abhishek Kumar	1529	Temporal Dynamics of PM 2.5 and PM 10 over the Delhi Region
05:50 pm	Mr. Rajiv Kumar	1533	Upgradation of California Bearing Ratio Value of fine Soil using Geogrids
06:00 pm	Ms. Anu Subha R. K.	1536	Retempering-Induced Variations in Strength Characteristics of Conventional and SCM Enhanced Concrete
06:10 pm	Ms. C. Lavanya	1543	AUTISM STUDENT EMOTION INTELLIGENCE SYSTEM
06:20 pm to 06:30 pm	Mr. Rethik M	1544	Development and Characterization of Ionic Crosslinked Alginate-Carboxymethylcellulose - Chitosan based bioink for Tissue Engineering

**Technical Session: 26 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/fkz-bcba-yfb>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Mr. Syed Zain Askari	1546	Firebrick-based Thermal Energy Storage System Simulation and Analysis for long-duration VRE energy storage
05:10 pm	Km Nancy	1547	Wastewater Quality Analysis for rural Area of Siddharth Nagar
05:20 pm	Jassi J	1551	Fabrication and Characterization of g-C <sub>3</sub> N <sub>4</sub> /PANI/ZnO Ternary Nanocomposites: Structural, Optical, and Antibacterial Investigations
05:30 pm	Mr. Mrinal Patel	1561	Python-Based Comparative Analysis of Experimental and Simulated Antenna S-Parameters for Resonance and Bandwidth Evaluation
05:40 pm	Mr. Harish V	1563	Daily Monitoring and Prediction of Sports Person Health: An IoT and Machine Learning Approach
05:50 pm	Mr. Sandeep Chauhan	1565	Performance Analysis of 7nm 8T2M nvSRAM Utilizing Piezoresistive Memristors Materials
06:00 pm	Mr. Amandip Dutta	1566	Numerical Study of Beeswax Composite as Phase Change Material for Unmanned Aerial Vehicle Battery
06:10 pm	Dr. Ghada Aly Abdelhamed Makhoulouf	1570	Flammability and smoke toxicity of cotton fabric dyed with rosella as a natural dye
06:20 pm to 06:30 pm	Mr. Basaveswara Rao Bavireddi	1573	A Sustainable And Scalable Route To 5-Substituted 1h-Tetrazoles: Application To Sartan Drug Intermediates

**Technical Session: 27 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/iji-iyuu-hdw>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Mr. Shubham	1579	A review on the synthesis methods of rare earth doped ATiO <sub>3</sub> (A=Ca, Sr, Ba) based phosphors
05:10 pm	Ms. Brikchana Karki	1581	Electronic and Adsorption Properties of Zr Decorated MoS <sub>2</sub> for Hydrogen Storage Applications: Insight from DFT Study
05:20 pm	Ms. Riya	1582	Synthesis of biopolymer based semiconductors (ZnO and TiO <sub>2</sub> ) IPNs and characterization
05:30 pm	Ms. Bharti Ramlal Patel	1583	NeuroScanAI: Intelligent Brain Tumor Detection and Cure Recommendation System
05:40 pm	MD AJMAL HUSSAIN	1585	Analysis Of High-Rise Building with and without Shear Wall Under Dynamic Load
05:50 pm	Mr. Pulkit Soni	1591	Multi-Objective Optimisation of the NACA 2415 Airfoil Using a Taguchi–Fuzzy Framework and Computational Fluid Dynamics
06:00 pm	Mr. Laksh Gupta	1605	Deterministic Compilation and Formal Verification Framework for Correct-by-Construction Digital Subsystem Integration
06:10 pm	Mr. R.sakthi vel	1614	Experimental investigation of bearing capacity of soil using geosynthetic reinforcement
06:20 pm to 06:30 pm	Mr. Arunsankar S,	1618	Stabilization Of Soil Using Micropiles

**Technical Session: 28 [Invited Faculty/ Scientist Speakers / Student Speakers ]: Online mode**

Link: <https://meet.google.com/cxi-vipo-uap>

Date: 06.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Jibrin Mohammed	1617	Strategy for High-Performance Microwave Absorption and EMI Shielding Using Magneto-Dielectric-Polymer Composites
05:15 pm	Dr. Nandkumar P. Dharmadhikari	611	Comparative Study of Radon( <sup>222</sup> Rn) and Thoron( <sup>220</sup> Rn) Exhalation from Soil and Building Materials over Groundwater and Non-Groundwater Zones in Pune, India
05:30 pm	Dr. Chinmayee Hazarika	550	Fabrication–Integration Co-Optimization in Advanced CMOS Technology Nodes
05:45 pm	Dr. Madhulata Shukla	489	Synthesis of Copper Oxide Nanoparticle: A promising material for Photocatalysis
06:00 pm	Ms. Anakha R S	1450	Bacterial Bio-Concrete Using Bacillus Megaterium for Crack Healing and Strength Improvement
06:10 pm	Ms. Aparna Sahoo	1211	Comparative Evaluation of In-Situ and Processed Coal Bulk Density for Mine Design Applications
06:20 pm to 06:30 pm	Mr. V. Raghuvaran	1499	Material Characterization and AI-Based Prediction of Tribological Properties in Graphite-Reinforced Aluminium Matrix Composites

**ICRTMD-2026**

**DAY 2**

**07/04/2026**

4<sup>th</sup> International Conference on  
**Recent Trends in Materials Science & Devices 2026**  
**(ICRTMD-2026)**

6-8 April, 2026

Organized by

Department of Physics of JVMGRR College,  
Charkhi Dadri, Haryana, India

**Program Schedule**

**Day: 2**

**Date 07/04/2026**

**Online mode**

**Technical Sessions:**

- **Parallel Technical Sessions for each time slot: 13.**
- **Duration of each Technical Session: 90 minutes**
- **Total Technical Sessions Links: 13.**
- **Total Technical Sessions on Day-3: 65.**

**Link of Talks: Provided on the top of each Technical Session**

Date	Time	Event Information
07.04.2026	09:00 AM to 10:30 AM	13 Parallel Technical Sessions from A1 → M1
<b>07.04.2026</b>	<b>10:30 AM to 11:00 AM</b>	<b>Break for 30 minutes</b>
07.04.2026	11:00 AM to 12:30 PM	13 Parallel Technical Sessions from A2 → M2
<b>07.04.2026</b>	<b>12:30 PM to 01:00 PM</b>	<b>Break for 30 minutes</b>
07.04.2026	01:00 PM to 02:30 PM	13 Parallel Technical Sessions from A3 → M3
<b>07.04.2026</b>	<b>02:30 PM to 03:00 PM</b>	<b>Break for 30 minutes</b>
07.04.2026	03:00 PM to 04:30 PM	13 Parallel Technical Sessions from A4 → M4
<b>07.04.2026</b>	<b>04:30 PM to 05:00 PM</b>	<b>Break for 30 minutes</b>
07.04.2026	05:00 PM to 06:30 PM	13 Parallel Technical Sessions from A5 → M5

**Technical Session: A1 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/oue-sgoq-hek>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Nabajit Dev Choudhury	101	Experimental Investigation for Thermal performance of Biochar based Phase Change Material for Thermal Storage Application
09:15 am	Dr. Prithidipa Sahoo	112	Development of a Nanosensor-Based Illumination Tool for On-Site CO Monitoring
09:30 am	Dr. Vinodha Ganesan	125	A High-Efficiency AC/PVDF Thin Film Nanofilter for Microplastic Capture from Water
09:45 am	Dr Rashmi Kataria	131	Conversion of agricultural waste to value added chemical: A sustainable approach
10:00 am	Dr. Basudeb Munshi	134	Lignin: A sustainable source of Energy and Chemicals
10:15 am to 10:30 am	Dr Sanfaori Brahma	146	Covalent Organic Polymer Affixed with Bromidometallate: A Bifunctional Catalyst for Epoxide-Carbon Dioxide Cycloaddition Reactions
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: B1 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/jfr-bzpz-kgz>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Jyothi M S	156	Tailored MoS <sub>2</sub> -Based Composite Membranes for High-Flux, Selective and Sustainable Wastewater Purification
09:15 am	Dr. Milan Krishna Barman	176	Silica gel supported composites materials for separation and estimation of heavy metal ions from aquatic environment
09:30 am	Dr. Ritu Singh	194	Magnetically Recoverable Micromotors for Microplastic Removal from Water
09:45 am	Dr. V. Jayalakshmi	211	Artificial Intelligence -driven Life Cycle Assessment for Electrical Apparatus
10:00 am	Dr. V. Balaji	220	STUDIES ON MISCIBILITY OF POLY ACRYLO NITIRLE AND POLY VINYL CHLORIDE BLENDS IN N,N-DIMETHYL FORMAMIDE AND ITS CHARACTERIZATION OF ULTRA FILTRATION MEMBRANE
10:15 am to 10:30 am	Dr. Debasree Saha	239	Green and Sustainable Strategies in Pd-Catalysed Heterocycle Synthesis
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: C1 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/xei-csoq-hcf>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Amit Kumar Singh	261	Brewed for Impact: Tea- and Coffee-Derived Microrobots for Biofilms Eradication and Water Remediation
09:15 am	Dr. Yukti Verma	280	Effect of novel metallic nanoparticles synthesized via green route on fruit and vegetable crops
09:30 am	Dr. Shiwani Guleria Sharma	287	Microalgae–Bacteria Consortium as a Sustainable Approach for Large-Scale Wastewater Treatment
09:45 am	Dr. Manju Kumari	313	Environmental Sustainability and the Role of Green Chemistry In Human Health
10:00 am	Prof. (Dr.) Suresh D Mane	319	Role of Higher Education Institutions in Environmental Sustainability
10:15 am to 10:30 am	Mr. Nihal Basheer M C	324	Utilization of Lantana camara Biomass for value-added products: Development and Demonstration
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: D1 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/ihx-nguh-szb>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Payal Bose	325	GREEN MATERIALS REVOLUTION TOWARDS GLOBAL SUSTAINABLE FUTURE
09:15 am	Dr. Shamimul Hasan	328	Environmentally Sustainable Healthcare: The Critical Role of Biomedical Waste Management
09:30 am	Dr. Anita Shekhawat	329	Enhanced Cr(VI) Sequestration Using Tetrabutylammonium Hydroxide Modified Chitin–Magnetite Composite
09:45 am	Dr. Jampala Annie Modestra	338	Bioelectrochemical process innovations for sustainable upcycling of waste and CO2 into biobased products: Towards a circular bioeconomy
10:00 am	Dr. Akshta Rajan	168	Materials Synthesis and Processing: From Conventional Methods to Advanced Manufacturing Technologies
10:15 am to 10:30 am	Dr. Rashmi Soni	362	Bioenergy Potential of Soybean Agriculture Crop Residue: Pathways for Agro-Ecological Sustainability in the Malwa Plateau
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: E1 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/zuh-ctwq-dax>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
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09:00 am	Prof. Mamta Sharma	424	PANCH PARIVARTAN AS A CATALYST FOR ENVIRONMENTAL SUSTAINABILITY: INTEGRATING MATERIALS INNOVATION, POLICY REFORM, AND SUSTAINABLE DEVELOPMENT GOALS
09:15 am	Dr. Prasun Chowdhury	435	An Overview of Smart Things based on IoT: Concepts, Applications, and Future Prospects
09:30 am	Dr. Sanchayan Mukherjee	456	Streambank Erosion and Sustainable Protective Materials: An Integrated Technical Review
09:45 am	Dr. M. B. Jessieraj	511	Nanostructured Solar-photocatalysts for Clean Aquatic Environment
10:00 am	Dr. Shubhra Barwa	524	E-waste: toxicity and management
10:15 am to 10:30 am	Dr. Anurag Jyoti	525	Photocatalytic properties of TiO <sub>2</sub> nanoparticles for Environmental Sustainability
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: F1 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/sun-qwvt-ogm>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. G Prasannamedha	546	Hydrothermal Carbonization of Waste Biomass in to Sustainable Material for Water Purification Application
09:15 am	Dr. C. Thamaraiselvi	577	An Eco-Sustainable Coagulation Strategy for Tannery Wastewater Treatment Using Natural Polysaccharides
09:30 am	Dr. Pallabi Borah	580	Photocatalytic degradation of Endocrine Disrupted Pharmaceuticals
09:45 am	Dr. Sirisha Nallakukkala	594	A Sustainable Gas Hydrate–Based Approach for Produced Water Desalination: Process Kinetics and Treatment Efficiency
10:00 am	Dr. Pooja Rani	603	Nanotechnology's Contribution to Sustainability - Success and Challenges
10:15 am to 10:30 am			
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: G1 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/caz-csnm-xhk>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am			
09:15 am	Dr. Erumalla Venkatanagaraju	625	In Silico Comparative Structural Analysis of Carbonic Anhydrase from Coral and Symbiotic Algae and Its Interaction with Cosmetic Agents through Molecular Docking

09:30 am	Dr. Ruchi Bharti	646	Plant-Mediated Synthesis of Cu–ZnO Nanocomposites with Multifunctional Environmental Applications
09:45 am	Dr. Abhisikta Bhaduri	713	Waste-derived triboelectric nanogenerators (TENGs) for sustainable electronics
10:00 am	Dr. Neeraja Pravin Dhole	719	Microbial Bioprospection for Sustainable Waste Valorization: Insights from Gut Microbiota
10:15 am to 10:30 am	Dr. Minakshi Bora	721	Hybrid Green–Blue Infrastructure for Climate-Resilient Urban Flood Management
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: H1 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/tfb-xrtj-ntu>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Rachna Jain	749	Biological Interfaces in Sustainable Materials Systems: Microbial Exposure Considerations for Environmental Technologies
09:15 am	Dr. Barnali Barman	798	A Review on Sustainable Food Systems (SFS) on the light of Physics Principles
09:30 am	Dr. Susmita Singh	846	Waste Biomass Valorisation into Fuel: A Novel Catalytic Approach for Sustainable Bioethanol Production
09:45 am	Dr. Mansi Sharma	877	Pigmented Rice and Anthocyanin Biosynthesis: Implications for Climate-Resilient and Sustainable Agriculture
10:00 am	Dr. Neena. P	901	Sustainable Reinforcement of Natural Rubber with Coconut Oil Cake: A Novel Alternative to Carbon Black
10:15 am to 10:30 am	Dr. Pranjal Bharali	907	A study on the physicochemical and biological properties of a microbial origin biodegradable nanocellulosic matrix material
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: I1 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ujt-yfar-xgf>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Manjeet Singh Barwa	926	Multi-variate and toxicity analysis with associated water parameters of groundwater Uranium in six districts of Uttar Pradesh near river areas of Ganga and Yamuna
09:15 am	Dr. Vishal Kumar	927	Sustainable Materials Processing Through Wire Arc Additive Manufacturing Process
09:30 am	Dr. Gulmi Chakraborty	937	From Band Structure to Clean Water: Nanomaterial Interfaces for Sustainable Photocatalysis

09:45 am	Dr. D M Srinivasa	961	EVALUATION OF CRITICAL PROPERTIES OF NATURAL ESTER OIL BLENDED WITH ANTIOXIDANTS FOR TRANSFORMER APPLICATIONS
10:00 am	Dr. Shama Afroz	995	Molecular Engineering of Lignin for Next-Generation Sustainable Biomaterials
10:15 am to 10:30 am	Arindam Banerjee	997	Pipe design for the Hydrogen Transmission Network
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: J1 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ged-paxi-xch>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. (Mrs.) B.Manjula devi	1009	Sustainable Utilization of Waste Tyres in Pavement Construction: An Experimental Investigation
09:15 am	Dr. N. Muthulakshmi Andal	1017	Ablation of Cr(VI) from Chrome plating Unit using Geomineral and Infusion of Laden Matrix in Fly ash Brick Preparation
09:30 am	Dr. Shamsheera K O	1022	Corrosion Protection of Mild Steel Using Inhibitors and Anticorrosive Coatings
09:45 am	Dr. Seema Talukdar	1047	Leveraging the potential of Burflower tree leaves in the adsorption of Congo Red dye from simulated wastewater
10:00 am	Dr. Nissy Ann Harry	1053	An eco-friendly microwave-assisted on-water strategy for the synthesis of 2-methyl-2phenyl-2,3-dihydro-1H-perimidine
10:15 am to 10:30 am	Dr. A. Vijayalakshmi	1054	Green Blueprint: Steps to Secure Environmental Sustainability
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: K1 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/fkz-bcba-yfb>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Usha Kiranmai Gondrala	1062	METHODS AND POLICIES OF SOLID WASTE MANAGEMENT
09:15 am	Dr. Pragya Sinha	1065	Sustainable Multicomponent Chemistry as a Platform for Rapid Drug Lead Discovery
09:30 am	Dr. Samim Sultana	1067	Development of magnetically active rGO anchored iron oxide composite : an efficient catalyst for transfer hydrogenation of ketones
09:45 am	Dr. M.L.V. Prasanna Chippada	1086	Environmental Sustainability in Materials Science: The Green Innovation and Waste Minimization Approaches
10:00 am	Dr. Zeenat Arif	1101	Performance study of Green-engineered agricultural-based nano-adsorbent for heavy metal removal

10:15 am to 10:30 am	Dr. M. Meena	1111	Eco-Friendly Removal of Cu(II) Ions Using Chitosan-Modified Neem Leaf Biosorbent
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: L1 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/iji-iyuu-hdw>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Surendar Natarajan	1123	SIMULATION OF FLOOD HAZARD PRIORITIZING CRITICAL SUB CATCHMENT AREA- A STUDY ON THAMIRABARANI RIVER BASIN, TIRUNELVELI
09:15 am	Dr. Jayalatha Gopalakrishnan	1155	Biopolymeric Aerogels for removal of water contaminants
09:30 am	Dr. Lekshmi M S, Dr. M.K. Thangamani Bindhu	1159	Earth-Based Mortar Reinforced with Coir fibres using Bio- extract as Admixture - An Alternative to Conventional Mortar
09:45 am	Dr. S Vanitha	1247	UTILIZING A GEOTEXTILE SUBSTANCE TO ENHANCE ENVIRONMENTAL SUSTAINABILITY
10:00 am	Dr. Seema Praveen	1285	Sustainable Biodiesel Production from Ziziphus nummularia Seed Oil: A Promising Non-Edible Feedstock for Renewable Energy
10:15 am to 10:30 am	Dr. Yoganandan Govindaraj	1293	Smart Functional Coatings and Electrochemical Platforms for Carbon Capture and Corrosion Mitigation toward Sustainable Infrastructure
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: M1 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/cxi-vipo-uap>

Date: 07.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Anchal Singhal	1303	"Greener Chemistry, Stronger Medicine: Sustainable Quinoline Scaffolds as Potent Antibacterial Agents"
09:15 am	Dr Sansuta Mohanty	1315	Multi-environmental clean-up approach for recovery of Manganese.
09:30 am	Dr. Abhra Shau	1329	Recent Advances in Materials for CO2 Capture and Storage
09:45 am	Dr.T.S.R.UMAMAGESWARI	1349	Next-Generation Nanocomposites for Sustainable Waste Reduction and Environmental Remediation
10:00 am	Dr. Anuj Kumar Purwar	1355	Green House Gas Emission Study on Solid Waste Treatment Technologies for South Delhi Municipal Corporation, India
10:15 am to 10:30 am	Dr. Atul Kumar	1421	AN IN VITRO SCREENING FOR HEAT TOLERANCE OF POTATO CULTIVARS

<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>
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**Technical Session: A2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/oue-sgog-hek>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

<b>Time</b>	<b>Authors</b>	<b>Paper ID</b>	<b>Paper Title</b>
11:00 am	Dr. Abhilasha Shourie	1428	Functionalized Biochar and Fungal Biomass based adsorbents for dye removal from aqueous solutions
11:15 am	Dr. Paramita Patra	248	Structural Material Performance under Extreme Radiation Environments for Advancing Nuclear Fusion Reactor
11:30 am	Dr. Bhoomi Sandip Gajjar	364	Evaluation and Activation Analyses of Structural and Shielding Materials for ITER or future fusion reactors by IN-DA
11:45 am	Dr. Ambika Tundwal	463	AI-Assisted Monte Carlo Analysis of Photon-Induced Collision Cascades in Iron for Extreme Radiation Environments
12:00 noon	Dr. Amit Kumar	475	Decoding Subsurface of the Earth: Characterizing Material Properties via Multi-Anvil Apparatus
12:15 pm to 12:30 pm	Dr. Chandresh M. P.	911	Elastomeric Materials for Coupled Extreme Environments: Cryogenic, High-Pressure and Corrosive Service Conditions
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: B2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/jfr-bzpz-kgz>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

<b>Time</b>	<b>Authors</b>	<b>Paper ID</b>	<b>Paper Title</b>
11:00 am	Dr. Moutushi Dutta Choudhury	940	Stochastic Modeling of Temperature-Induced Fractal Crack Patterns in Drying Bentonite Clay
11:15 am	Dr. Chalana. S.R	627	Impact of Copper Doping on the Optical, Nonlinear, and Luminescence Characteristics of Nanostructured ZnS Thin Films
11:30 am	Dr. Resmi K R	629	Hybrid Photon-Plasmon modes in metal-dielectric-metal planar structures
11:45 am	Dr. Binimol Mary Mathew	785	Potential Third -order Nonlinear Optical Response in the proton transfer compound Benzimidazolium 4-hydroxypyridinium -2,6 dicarboxylate: Experimental and Theoretical Exploration
12:00 noon	Dr. Manasi Buzar Baruah	799	Eri Silk Derived Carbon Quantum Dot as Photocatalyst for Water Treatment
12:15 pm to 12:30 pm	Dr. Prince Kumar Mochahari	816	X-Band Microwave Absorption of Expanded Graphite-Fe <sub>3</sub> O <sub>4</sub> -White Cement Magneto Dielectric Nanocomposites

12:30 pm to 01:00 pm	<b>Break for 30 minutes</b>
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**Technical Session: C2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/xei-csoq-hcf>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Manju C K	1051	Atomically Precise Metal Chalcogenide Clusters
11:15 am	Dr. Purabi Gogoi	237	Plant-based Compounds as pH-Responsive Materials: Prospect of Flavonoids in Smart Food Packaging
11:30 am	Dr. Jayanta Kr Sarmah	303	Stimuli Responsive Smart Hydrogels with Injectable and Self-Healing Attributes for Biomedical Applications
11:45 am	Dr. Nirmala Devi	1050	Synthesis and Applications of Bioresource-based Resins
12:00 noon	Dr. Anish MC	1117	Transparent Wood: A Sustainable Bio-Based Alternative for Next-Generation Optical and Structural Devices
12:15 pm to 12:30 pm	Dr. Dhruva Jyoti Gogoi	1189	Metamaterial: A Bandwidth enhancer in Microwave Absorber
12:30 pm to 01:00 pm	<b>Break for 30 minutes</b>		

**Technical Session: D2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ihx-nguh-szb>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr Pranab Kumar Sarkar	153	Unveiling the Impact of Halide Mixing in Lead-Free Double Perovskite-Based Multifunctional Synaptic Memristors for Advanced Neuromorphic Computing
11:15 am	Dr. Arun Vinod	464	Sensing, Shining, and Storing: Nanoscale Solutions for Next-Gen Electronics
11:30 am			
11:45 am	Dr. Priyanka Das	1147	Smartphone-Integrated Carbon Nanodot-Neutral Red Fluorescence Sensor for Detection of Trace Nitrite
12:00 noon	Dr. Nabanita Bhattacharyya	1380	Wasteland plants can be used as sustainable sources of microcrystalline cellulose
12:15 pm to 12:30 pm	Dr. Amit Talukdar	654	A review of current materials for 3DCP and their properties
12:30 pm to 01:00 pm	<b>Break for 30 minutes</b>		

**Technical Session: E2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/zuh-ctwq-dax>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Borad M Barkachary	1161	A Review of Hybrid Additive–Subtractive Manufacturing for High-Performance Titanium Alloys
11:15 am	Dr. Alimpia Borah	1304	Fabrication of Biomolecule Derived Organic–Inorganic Hybrid Complexes
11:30 am	Dr. Krishna Kingkar Pathak	663	Determinant-Based Design Principles for Quantum Tunneling in Material Selection
11:45 am	Dr. Pubalee Sarmah	711	Computational Screening and Design Insights into Amino Acid Based Materials for Greenhouse Gas Capture
12:00 noon	Dr. Morris Marieli Antoinette	905	Solvothermally Synthesized Nanostructured Films for Flexible Piezoelectric Nanogenerators
12:15 pm to 12:30 pm	Dr. Sivakala S	1169	Tailored Organic–Inorganic Hybrid Systems for Energy, Environment, and Beyond
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: F2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/sun-qwvt-ogm>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Suminda	300	Effect of Citric Acid and Boric Acid on the Growth and Optical Properties of LAPTS Single Crystals
11:15 am	Dr. A. Maheshwaran	301	Highly Efficient Green Narrow-Band Multi-Resonant TADF Emitters for OLED Applications
11:30 am	Dr. Tripti Richhariya	316	Analysis of Emission spectra of Eu <sup>3+</sup> in phosphors
11:45 am	Dr. Abdul Rahim M K	1290	Comparison of the dye-sensitized solar cell performance of two carbazole-appended unsymmetrical squaraines
12:00 noon	Dr. Rajamouli Boddula	371	Design of bright-white-light emissive controlled energy transfer via a ligand to Eu(III) ion for optoelectronic applications
12:15 pm to 12:30 pm	Dr. Pampa Debnath	393	Estimation of Performance Parameters of Defected Quantum Well Solar Cell under Maximum Intensity
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: G2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/caz-csnm-xhk>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Susnata Bera	400	MoSe <sub>2</sub> -Cu <sub>2</sub> S heterostructures for broadband photo detection
11:15 am	Dr. Senjuti Khanra	409	Design of a Silicon Photonics Modulator using quarter-wave phase shifted Bragg Grating

11:30 am	Dr. Manoj Das	446	Quantum dynamics of a nanomechanical resonator coupled to a qubit
11:45 am	Dr. Vijaya Kumar Chavan	535	Eu <sup>3+</sup> -Activated Borate Glasses with Tailored Structural and Luminescent Properties for Advanced Photonic Applications
12:00 noon	Dr. Soumya Mukherjee	635	Delafossite CuAlO <sub>2</sub> by mechano-chemical activation method: Thermal, Structural, Morphology, Optical & Electronic Properties
12:15 pm to 12:30 pm	Dr. Shally Rana	668	Assessment of the Optical, Electrochemical, and Self-Assembly Morphology of the Symmetric Perylene Diimide-Bearing Apremilast Intermediate Amine
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: H2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/tfb-xrtj-ntu>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Payel Das	709	Remodelling Engineering with High-Tc Superconductors: Resistivity and Current-Voltage (IV) Characteristics in Focus
11:15 am	Dr. Sulochana Deb	813	Exploring Semiconducting and Mixed-Phase MoS <sub>2</sub> NSs for Ultraviolet Photodetection Applications
11:30 am	Dr. Avik Chattopadhyay	825	Leveraging Silicon Material for More Moore Operation
11:45 am	Dr. Suchismita Tewari	826	Corner-Point-Enhanced Ge(1-x)Sn(x) TFET Biosensor for S-Protein Detection : Design Guidelines
12:00 noon	Dr. Basanta Kumar Rajbongshi	838	Molecular Tuning of Electron Mobility in Bithiazolide based D-A-D Organic Semiconductors with Electron-Withdrawing Groups: A DFT Approach
12:15 pm to 12:30 pm	Dr. Denzil Britto Christopher Leslee	897	Chromofluorogenic coumarin-nicotinic hydrazone chemodosimeter sensing of CN <sup>-</sup> ions in water and construction of molecular logic gate
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: I2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ujt-yfar-xgf>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Ms. Kirandish Kaur	955	DFT Study of Structural, Electronic, Magnetic and Optical Properties of Al <sub>1-x</sub> Cr <sub>x</sub> P
11:15 am	Dr. Priyanka Pandey	976	Organic Charge Transfer Complexes: It's Fundamentals and Applications in Optoelectronic Devices

11:30 am	Dr. Anita Rani	979	Electronic and Magnetic Properties of Ga <sub>1-x</sub> Cr <sub>x</sub> As and Ga <sub>1-x</sub> Cr <sub>x</sub> N at x = 0.0625 : DFT Study
11:45 am	Dr. Parvathi Priya A	1103	Growth and Physicochemical Investigation of Alanine Based amino acid Single crystals Promising Semi-Organic NLO Crystal for Photonic Applications
12:00 noon	Dr. Ch. Victory Devi	1203	A Study on the photoluminescence properties of Li <sup>+</sup> co-doped Dy <sup>3+</sup> activated YVO <sub>4</sub> nanoparticles : An oxidant resistant nanoparticle
12:15 pm to 12:30 pm	Dr. Basanti Mohanty	1250	Unveiling Se/Ag <sub>2</sub> S Heterostructure Thin Films Under Annealing for Photoresponse and Optoelectronic Applications
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: J2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ged-paxi-xch>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Roop Shikha Singh	1268	AIE-Active BODIHY-Based Artificial Light-Harvesting Systems for Advanced Optoelectronic Applications
11:15 am	Dr. P K Mandal	190	Mechanical and Corrosion Properties of Titanium Biomaterials
11:30 am	Dr. Vikas Malik	1345	Slow Relaxation of the Coulomb glass Model
11:45 am	Dr. Naorem Khelchand Singh	1379	Ag-Assisted Nb <sub>2</sub> O <sub>5</sub> Nanowires for High-Sensitivity UV Photodetection
12:00 noon	Dr. Maisara Abdul Kadir	126	Pyridine-Functionalized Monoamides as Selective Chromate and Phosphate Receptors
12:15 pm to 12:30 pm	Dr. Plaban Jyoti Sarma	138	Structures of tin dioxide nanoclusters: a global optimisation approach
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: K2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/fkz-bcba-yfb>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Priyanka Sahu	139	Comparative examination of XRD line broadening and statistical thermodynamic models for estimating structural parameters in high-entropy alloys
11:15 am	Dr. Neha Rani Kumar	152	Crystal Structure Analysis and Computational Study of C-H-- $\pi$ interactions in 1,4-di(azulen-6-yl)buta-1,3-diyne
11:30 am	Dr. Manisha Patni	240	Charge Transfer Complexes of 1,2,4-Triazoles: Experimental and Theoretical Investigations
11:45 am	Dr. Lokendra P. Singh	286	Dielectric relaxation dynamics in poly(propylene glycol)-mono butyl ether

12:00 noon	Dr. Arvind Kumar Gautam	436	Molecular insight into thermodynamic stability of tetrahedral materials under supercooled region
12:15 pm to 12:30 pm	Dr. Gitalee Sharma	479	Smart & Green: Biopolymer Shields for Mild Steel Sweet Corrosion
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: L2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/iji-iyuu-hdw>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Bandhan Sharma	566	Comparative Crystallographic Analysis of Coumarin Derivatives: Role of Intermolecular Interactions in Crystal Packing
11:15 am	Dr. Radhika Khanna	688	Xanthenone Derivatives: Synthetic Strategies, Structural Diversity, and Emerging Applications
11:30 am	Dr. Padmanabhan Krishnan	870	Hollow Fibre Composites for light weighting in Structural applications
11:45 am	Dr. R. Dhayalan	908	Generation and detection of ultrasonic shear horizontal plate waves in thick low carbon steel plates using magnetostrictive EMAT
12:00 noon	Dr. Atria Pradityana	1046	A Sustainable Corrosion Protection Strategy: Thermodynamic and Kinetic Insights into Amaranthus hybridus L. Leaf Extract as a Green Inhibitor for API 5L Grade B Steel in Acidic Solutions
12:15 pm to 12:30 pm	Dr. Bincy Francis	1238	Synergistic Enhancement of Thermomechanical Properties in rGO/MWCNT/Ionic Liquid Hybrid Epoxy Composites
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: M2 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/cxi-vipo-uap>

Date: 07.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Manasa. H	1295	Advancements in 3D concrete printing and waste derived materials for sustainable construction
11:15 am	Dr. R. Rajkumar	1313	USE OF RECYCLED AGGREGATE CONCRETE TO EFFECT ECONOMY IN CONSTRUCTION
11:30 am	Dr. Himani Khanduri	263	Low temperature garnet phase formation in Mn-substituted Y <sub>3</sub> Fe <sub>5</sub> -xMnxO <sub>12</sub> nanoparticles
11:45 am	Dr. Archana V N	1372	The Science of Magnetic Nanofluids
12:00 noon	Susama Sarkar, Biplab Saha, Gourab Mondal , Ranadip Makur , Swayam Bandyopadhyay , Sourav Prakash	1406	Utilization of alternate aggregate in concrete

12:15 pm to 12:30 pm	Dr. Anitha Subbappa	141	Smart and Biodegradable Materials for Local Drug Delivery in Periodontal Disease (Gum disease) Applications
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: A3 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/oue-sgog-hek>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. SANCHARI BANERJEE	151	Nanostructured Metal Oxides for Photoelectrochemical Energy Conversion and Biomedical Sensing: A review connecting Energy and Medical Applications
01:15 pm	Dr. S. Ranjani	157	Green Nanotherapeutics: A sustainable alternative for dental caries management
01:30 pm	Dr. Nibedita Pradhan	174	Designed Nanomaterials Targeting Proteinopathy related Neurodegenerative Diseases
01:45 pm	Prof. Reena V. Saini	216	Granulysin peptides loaded onto folate decorated Niosomes for targeted Breast cancer treatment
02:00 pm	Dr. Ritu Patel	217	Structural and Biocompatibility Assessment of Probiotic-Derived Exopolysaccharide as Biomaterial
02:15 pm to 02:30 pm	Dr. Mamata	243	Antibacterial activity of rGO-Ag nanocomposite using reduced graphene oxide as a substrate
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: B3 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/jfr-bzpz-kgz>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Pravas Kumar Panigrahi	486	Morphological Evolution of Bismuth Sulfide Nanorods under Solvothermal Condition
01:15 pm			
01:30 pm	Dr. Ashok Kumar	493	Interpretation of adsorption behavior of guar gum onto activated mesoporous bentonite surface from its aqueous solutions
01:45 pm	Dr. Suvankar Chakraborty	530	Tungsten oxide : Formation and impact on cleaning of W(110) surface
02:00 pm	Dr. Konica Sharma	544	A review on development of superhydrophobic coatings using green, sustainable materials and Techniques
02:15 pm to 02:30 pm	Dr. Biprajit Paul	576	Sustainable Synthesis of Organochalcogen Compounds with Pharmaceutical and Material Interest
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: C3 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/xei-csoq-hcf>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Pankaj Pal	256	Chemokine-Functionalized Suprachoroidal Hyaluronic Acid Hydrogels as Microglia-Sequestering Depots for EZH2–H3K27me3–Mediated Epigenetic Modulation in Non-Infectious Posterior Uveitis
01:15 pm	Dr. Neena K. Dhiman	285	Nanoencapsulation and Nanocomposites as Next-Generation Drug Delivery Platforms for Microbiome and Beyond
01:30 pm	Dr. Abhishek Saha	292	Cellular Entry of Therapeutic Cyclic Peptides
01:45 pm	Dr. Kavithaa Krishnamoorthy	304	Green-Synthesized Banana Pith–Mediated Iron Oxide Nanoparticles Exhibit Antioxidant and Anticancer Activity Against Triple-Negative Breast Cancer (MDA-MB-231)
02:00 pm	Dr. Rakhi Issrani	305	Oral–Gut Microbiome Dysbiosis and Oral Health: Introducing Endogenous Ethanol Production as a Novel Biomarker
02:15 pm to 02:30 pm	Dr Parikshit R. Shirode	311	Dhoopana (Herbal Fumigation)- Novel Drug Delivery System
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: D3 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/ihx-nguh-szb>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Rania Indu	312	Medical Devices in the Era of Advanced Healthcare: Regulation, Clinical Trials, and Materiovigilance
01:15 pm	Dr. Deepak Yadav	358	Evaluation of 2-Octylcyanoacrylate Polymeric Films for Enhanced Tissue Adhesion in Wound Closure Applications
01:30 pm	Dr. Soubhagya A. S	434	Bio-glass nanoparticles loaded carboxymethyl pullulan 3D scaffold for bone tissue engineering
01:45 pm	Dr. Manila Mallik	439	Study on the Corrosion Behaviour of Pulse Electrodeposited CCTO-Reinforced Hydroxyapatite Coating
02:00 pm	Dr. Roopa Reddy	445	Innovative utilization of decellularized plant leaves as scaffold for functional next generation 3D cell culture applications
02:15 pm to 02:30 pm	Dr. Sangapatnam Suneetha	519	Impact of Magnetohydrodynamic Radiative Micropolar hybrid nanofluid flow over a Stretching Cylinder: Applications to Hyperthermia Cancer Treatment
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: E3 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/zuh-ctwq-dax>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Deep Shikha	553	Innovative Surface Engineering and Synthesis of Orthopaedic Implants
01:15 pm	Dr. Anima Pandey	563	Bio-Inspired Starch from Artocarpus lakoocha as an Eco- friendly Natural Excipient for Pharmaceutical Applications
01:30 pm	Mr. Bijan Kumar Gangopadhyay	565	Equation-of-State--Inspired Theoretical Modeling of Biomedical Materials: Analogies with Neutron Star Matter
01:45 pm	Dr. Deepti S. Deshpande	596	Next-Generation Organic Bioelectronic Assistive Systems for Safe Independent Living in Neurodegenerative Disorders
02:00 pm	Dr. Sharan Mallya	659	From Digital Plan to Operating Room: 3D-Printed Titanium Prosthesis for Distal Radius Reconstruction After Wide Resection Of Recurrent Giant Cell Tumour
02:15 pm to 02:30 pm	Dr. Kristina Ramanauskiene	661	Application of Propolis Extracts in Dermoprotective Formulations
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: F3 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/sun-qwvt-ogm>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Kunal Biswas	665	Graphene-based biomedical materials
01:15 pm	Dr. Manashi Garg	671	Study of antimicrobial properties of Hydrocotyle species and activity of its bioactive metabolites through nanocapsule based formulations.
01:30 pm	Dr. Piyali Das	744	Fabrication and Evaluation of Low-Cost, Functionalized Avian Collagen Electrospun Mats for Wound Repair
01:45 pm	Dr. Jayaprakash N.S	952	Implementation of a macroporous polyhydroxyethylmethacrylate cryogel-based mini-bioreactor system to improve monoclonal antibody production
02:00 pm	Dr. Vidya G	957	PEDOT:PSS–Biopolymer Platforms Enabling Sustainable Cardiovascular Diagnostics
02:15 pm to 02:30 pm	Dr. Cheena Singh	959	Dental Sleep Medicine: Bridging Dentistry and Sleep Science.
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: G3 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/caz-csnm-xhk>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Suresh PS	1001	Epigenetic Modulator And Xanthonoid Co-Delivery Via Follicle Stimulating Hormone B (33-53) Peptide Linked Pegylated Graphene Oxide For Synergistic And Targeted Anti-Ovarian Cancer Efficacy
01:15 pm	Dr. Devika Menon M K	1014	Advances in Biomedical Material Modeling for Non-Invasive IR-UWB Radar Based Breast Cancer Detection
01:30 pm	Dr. D. Prasanthi.	1038	STATISTICAL OPTIMIZATION OF POSACONAZOLE SMEDDS USING D-OPTIMAL MIXTURE DESIGN UNDER A QBD PARADIGM
01:45 pm	Dr. Preeti Jain	1040	Treatment options for Leishmaniasis: Historical Perspective, Diagnosis & Current status
02:00 pm	Dr. Dhritishree Ghosh	1080	Nano-medicine: From off-target toxicity to biocompatible therapeutics
02:15 pm to 02:30 pm	Dr. Sahar Majdi Jaffal	1090	Exploring the Role of Alpha-Tocopherol in Pain and Inflammation: Interplay with TRPV1, PKA, and PKC Pathways
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: H3 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/tfb-xrtj-ntu>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Yasotha Thirupathi	1121	Biomimetic Injectable Hydrogel Based Delivery Systems for Mesenchymal Stem Cells in Osteoarthritis
01:15 pm	Prof. Subit Kumar Saha	1125	Phototriggered and pH-Responsive Cancer Drug Delivery System of Hybrid Micelles
01:30 pm	Dr. Naveen Pathivada	1126	Alginate-Immobilized Silver Nanocomposite Hydrogels: Enhanced Stability and Sustained Antibacterial Performance via Green Synthesis
01:45 pm	Dr. Sana Ali	1163	Recent advances in intrinsically conducting polymer-based hybrid nanocomposite electrode materials for energy storage and diagnostic biosensing
02:00 pm	Dr. Amita Pandey	1194	Quality Control of Molecular In Vitro Diagnostics
02:15 pm to 02:30 pm	Dr. Anjali Rawani	1242	Biomedical application uses of green synthesized metal nanoparticles
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: I3 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/ujt-yfar-xgf>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Tintu. R	1264	Aloe vera–Mediated ZnO Nanoparticles: Optical Modeling, Defect-Driven Emission, and Biomedical Potential
01:15 pm	Dr. Ruchi Mishra	1286	Ribosome Inactivating Proteins based nanoparticles: An unplumbed strategy for effective cancer treatment
01:30 pm	Dr. Susmita Das	1316	Design of Bionic Hand using Haptic Sensation for Amputees
01:45 pm	Dr. Aarati Panchbhai	1319	Biomimetic Gold for Bioimaging in Healthcare
02:00 pm	Dr. Jyotshna Saikia	1320	Quantum Chemical Approach in Computer-Aided Drug Design
02:15 pm to 02:30 pm	Dr. Tata Kondala Rao	1348	Nano silver ferrite, an effective nontoxic antifungal agent
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: J3 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ged-paxi-xch>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Rasmita Lenka	1352	Integrating Wearable Biosensors with the IoMT for AI-Enabled Smart Healthcare
01:15 pm	Dr. Arpita Maji	133	Effect of nonlocality and surface–interface elasticity on lamb wave propagation in piezoelectric–piezomagnetic nanoplate
01:30 pm	Dr. Anupama Ojha	145	Nanomaterial and Biomaterial-Based Targeted Therapeutic Strategies in Gallbladder Cancer
01:45 pm	Dr. Vandana Dubey	167	An Energy-Efficient QCA-Based Optimized 4-Bit Serial–Parallel Multiplier Using Multilayer Wire Crossover
02:00 pm	Dr. Balwinder Kaur	171	Tunable Structural, Optical, Magnetic, and Antimicrobial Properties of Mn-Substituted NiZn Ferrite Nanoparticles
02:15 pm to 02:30 pm	Dr. Lakshmi Ranganatha V	181	Impact of Lanthanum Doping on the Structural, Optical, and Functional Properties of ZnO Nanoparticles for Photocatalytic and Sensing Applications
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: K3 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/fkz-bcba-yfb>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr Dipsikha Bhattacharya	183	Synthesis of N and S doped highly biocompatible Carbon Dots for Metal Sensing Applications

01:15 pm	Dr. Saroj Kumar Panda	1219	Numerical Analysis of Solid–Liquid Separation in Glove-Box Adaptable Precipitation System for Plutonium Reprocessing
01:30 pm	Dr. N. O. Gopal	218	Visible light active TiO <sub>2</sub> based nanomaterials for environmental remediation by photocatalysis
01:45 pm	Dr. Priyanka Singh	236	Development of Nanoherbal sanitizer of leave extract of medicinal plant using Silver Nanoparticles
02:00 pm	Dr. Rahul Das	254	Green Synthesis of Metal-Based Nanopowders as an Efficient Photocatalyst for Wastewater Treatment
02:15 pm to 02:30 pm	Dr. Mamta Latwal	262	Improved catalytic reduction of p-nitrophenol on nano scaled metal hexacyanoferrates
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: L3 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ijj-iyuu-hdw>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. M. Razia	264	Biosynthesis and assessment of antimicrobial activities of Ironoxide nanoparticles utilizing Native Earthworm species of Kodaikanal Hills
01:15 pm	Dr. Mallikarjunaswamy C	267	Green synthesis of m-LaVO <sub>4</sub> nanoparticles and its photocatalytic and electrochemical applications
01:30 pm	Dr. Rajib Pramanik	281	Fluorescent Molecular and Biomolecular Probes for Mercury (II) Detection: Recognition Mechanisms, Sensing Strategies
01:45 pm	Dr. Chiranjeevi Korupalli	334	Development of Tumor Microenvironment-modifying Nanoparticles for Multimodal Cancer Cell Killing In Vitro
02:00 pm	Dr. Ayana Bhaduri	347	Surfactant-Modulated MnOx Nanoparticles: Mixed-Phase Formation and Efficient Visible-Light Photocatalysis
02:15 pm to 02:30 pm	Dr. Deepti Chaudhary	360	Carbon Nanotubes-metal oxide Nanocomposites based Photoanode for Efficient Photoelectrochemical Water Splitting
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: M3 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/cxi-vipo-uap>

Date: 07.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Subhasis Roy	376	Single carbon dots-oriented bio-sensing probe for the multiple detection of mercury(II), iodide and L-cysteine in aqueous media
01:15 pm	Dr. Mahalakshmi Thangavelu	381	Enhancement of MHD Mixed Convection inside Double Wall Driven Enclosure completely filled with Ternary Nanofluid and Heat Sources

01:30 pm	Dr. Subhendu Bhandari	391	Synthesis and characterization of highly crystalline polyaniline
01:45 pm	Dr. Pritha Banerjee	399	Transcending Planar Limits: The Journey from Bulk to Advanced 3D Architecture MOSFETs
02:00 pm	Dr. Saju Daniel	403	Hybrid Natural Rubber Nanocomposites Based on Organically Modified Layered Double Hydroxides and Carbon Nanofillers for Emerging Applications
02:15 pm to 02:30 pm	Dr. P. Sri Chandana	407	Influence of different structures of MnO <sub>2</sub> and their composites on degradation of fluoroquinolone antibiotic
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: A4 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/oue-sgoq-hek>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Pratibha Sharma	408	Surface-Engineered Metal Oxide Nanomaterials: Synthesis–Property–Function Relationships
03:15 pm	Dr. Karamjit Singh	421	Photo-catalytic and Sensing Applications of Synthesized Semiconductor Nanostructures
03:30 pm	Dr. Hari Shankar Biswas	438	Carbon-Based Nanomaterials and Nanotechnology: Recent Advances, Functionalization Strategies, and Emerging Applications with Special Emphasis on Hydrogenated Diamond-Like Carbon (HDLC)
03:45 pm	Dr. Palvinder Kaur	448	Coating of semiconductor nanomaterials and its application
04:00 pm	Dr. Aarti Tewari	450	Comparative Analysis of Growth Atmosphere Effects on CNTFET Performance Using ATLAS 3D Simulation
04:15 pm to 04:30 pm	Dr Raj Kumar	473	Nanoparticle-Based Strategies for Enhancing Solubility, Bioavailability, and Therapeutic Efficacy
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: B4 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/jfr-bzpz-kgz>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Manisha Agrawal	481	Phytochemical based Synthesis of Zn metal nanoparticle: characterization and antimicrobial application
03:15 pm	Dr. R. Padmini	484	Nanostructured Metal Oxide and Self-Assembled Systems for enhanced Phytochemical Bioavailability
03:30 pm	Dr. Vinay T R	1124	Real-Time GPU-Accelerated Video Enhancement for Night Surveillance and Traffic Monitoring
03:45 pm	Dr. K. Prabha	523	Structural, Optical, Surface and Magnetic Characterization of Transition Metals Doped Metal Oxide Nanoparticles.”

04:00 pm	Dr. C B Priya	526	Performance Comparison of Functional Materials: Property and Behavior in Emerging Applications Across Fields
04:15 pm to 04:30 pm	Dr. Sruthi H	541	New Fmoc-based Organogels: Preparation and Friction Studies
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: C4 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/xei-csoq-hcf>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Sridarshini. T	547	Photonic Crystals based Devices: Recent Advances, Design Strategies for Photonic Integrated Circuits Applications
03:15 pm	Dr. Falak Thakral	558	Green Synthesis of zinc oxide nanoparticle : Characterization and combinatorial effect with levofloxacin
03:30 pm	Dr. Shubhankar Kumar Bose	573	Metallic Copper Catalyzed 1,2-Carboboration of Alkynes
03:45 pm	Dr. Sapna Yadav	597	Synthesis and characterization of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> /rGO nanocomposite and its study for electrochemical glucose sensor and supercapacitor application
04:00 pm	Dr. Divya Gupta	620	Green synthesis of selenium nanoparticles using Tephrosia purpurea and their antioxidant, cytoprotective, and genoprotective activities
04:15 pm to 04:30 pm	Prof. Abha Sharma	630	Synthesis and evaluation of carbon quantum dots for therapeutical and sensing application
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: D4 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ihx-nguh-szb>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr.Y. IndiraMuzib	634	DEVELOPMENT OF ENTACAPONE LOADED BILOSOMES FOR IMPROVED ORAL DELIVERY BY BOX-BEHNKEN DESIGN
03:15 pm	Dr. Prabhat Patel	639	Nanomaterials in Sustainable Energy: Batteries, Supercapacitor, Fuel Cells and Thermal system optimization
03:30 pm	Dr. Malay K. Das	662	Stimuli-responsive smart nanoparticles for targeted cancer therapy
03:45 pm	Dr. Debabrata Mondal	805	Electromagnetic effect on displacement and stress in a viscoelastic half-space of Maxwell type contact with a liquid medium due to vertical creeping strike-slip fault

04:00 pm	Dr. Meena	674	Enhanced Environmental Performance of MgO/CuO Nanocomposites Synthesized via Dual Plant Extracts
04:15 pm to 04:30 pm	Dr. Soumik Podder	676	Metal-Organic Framework (MOF) for Prevention of Neurodegenerative Diseases
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: E4 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/zuh-ctwq-dax>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Runjun Sarma	694	Semiconductor Nanocrystals at Nano-Bio Interfaces: Implications for Biosensing and Bioimaging
03:15 pm	Dr. Surajit Konwer	708	Multifunctional Cu(I) Oxide-Decorated Polypyrrole Nanocomposite: A Green Platform for Gas Sensing and Regioselective Organic Transformations
03:30 pm	Dr. Poonam Kumari Gautam	710	Effect of Finite Larmor Radius on Rayleigh-Taylor Instability of non-Newtonian Magnetized Jeffrey Plasma Fluid
03:45 pm	Dr. Anita Nayak	715	Cross-diffusion effects in entropy optimized MHD hybrid nanofluid flow with viscous dissipation
04:00 pm	Dr. Sangeeta Rakesh Rana	750	Thermo-optical, Dielectric, and Structural Investigation of a Binary Liquid Crystal Mixture Doped with Nanoparticles
04:15 pm to 04:30 pm	Dr. Pragya Pandey	751	MHD Flow and Non-Fourier Heat Transfer Analysis of Cu-CuFe <sub>2</sub> O <sub>4</sub> Hybrid Nanofluid in Engine Oil with Couple Stress Effect
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: F4 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/sun-qwvt-ogm>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Rajesh Kumar Neogy	760	Nanofluid and its thermal transport properties
03:15 pm	Dr. Kusum Dalal	229	Micro Electro Mechanical Systems (MEMS): Materials, Fabrication, and Challenges
03:30 pm	Dr. Subhasri Mohapatra	784	REVERSIBLE CHOLINESTERSE INHIBITOR LOADED CHITOSAN BASED NANOPARTICLE
03:45 pm	Dr. Pratibha Kumari	807	Synthesis of silver nanoparticles modified by nanocellulose for selective sensing of model pesticides
04:00 pm	Dr. J. Anuradha	822	Biogenic Pd-Au Nanomaterials for Antimicrobial and Anticancer Applications

04:15 pm to 04:30 pm	Dr. Anson S. Maroky	823	Anti-bacterial effects of green synthesised ZnO NPs from Pajanelia longifolia leaf against diabetic foot infected multidrug-resistant bacterial strains
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: G4 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/caz-csnm-xhk>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Kirubhanand.C	849	ANTIANGIOGENIC AND ANTIMICROBIAL POTENTIAL OF ENCAPSULATED FLAVONOIDS AND POLYPHENOL NANOPARTICLES ON TUMOUR MODELS.
03:15 pm	Dr. Neha Saboo	860	Integrating Nanotechnology and Yoga Physiology: Wearable HRV Monitoring for Stress Regulation
03:30 pm	Dr. J. Bagyalakshmi	863	Eco-Friendly Fabrication of Euphorbia hirta L.-Based Silver Nanoparticles as a Nano-Pharmaceutical Platform: Characterization, Therapeutic Potential (Anti-Arthritic, Anti-Hyperlipidemic, Anti-Diabetic) and Protein Binding Interaction Studies.
03:45 pm	Dr. Priya Patel	881	Role of Nanoformulations in Targeted Cancer Treatment: From Concept to Case Evidence
04:00 pm	Dr. Tanvi Jaiswal	882	Chitosan Nanoparticles: A Natural Approach to Nano-Dentistry
04:15 pm to 04:30 pm	Dr. Kanika Bhatia	887	Green-Synthesized Carbon Dots for Advanced Photonic Applications
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: H4 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/tfb-xrtj-ntu>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Seema Sathe	888	Nanotechnology in dentistry: Shaping the future of oral health
03:15 pm	Dr. Nishtha	904	Unearthing the Antioxidant and Antimicrobial Activities of ZnO nanoparticles of Mimordica dioica
03:30 pm	Dr. Subhasree Dutta	967	Nonhomogeneous model for conjugatemixed convection of nanofluid and entropy generation in an enclosure in presence of inclined magnetic field with Joule heating
03:45 pm	Dr. Vinod Verma	981	Development of MXene Composite Nanofiber-Based 3D Culture System for the Efficient Generation of MSC-Derived Functional Pancreatic $\beta$ -Cells

04:00 pm	Dr. Jyoti Sharma	984	A study on Rayleigh-Bénard instability in hybrid nanofluids
04:15 pm to 04:30 pm	Dr. Poonam Khullar	1019	Magnetic Nanoparticles: Surface Functionalization and Applications
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: I4 [Invited Faculty/ Scientist Speakers]: Online mode**

Link: <https://meet.google.com/ujt-yfar-xgf>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Deepika Singh	1059	Shaping the Future of Therapeutics: Metallic Nanoparticles as Next-Generation Drug Delivery Agents
03:15 pm	Dr. Pratima Rajput	1071	Localized Surface Plasmon Enhanced Detection of Organic Environmental Pollutants Using Nitride Nanoparticles
03:30 pm	Dr. Amit Kumar Saini	1075	Electroosmotic Flow in a Concentrated Suspension of Polyelectrolyte-grafted Solid Cylindrical Particles: A Particle-in-Cell Approach
03:45 pm	Dr. Anil Kumar Das	1081	Effects of Low Energy Xenon Ion Beam Irradiation on the Morphology and Electrical Properties of Selenium over Indium Bilayer
04:00 pm	Dr. A Madhavarani	1084	Development of pH-Responsive Pectin-Based Nanogel as an Efficient Carrier for 5-Fluorouracil: Formulation, Characterization and Acute Toxicity Evaluation in Murine Models
04:15 pm to 04:30 pm	Dr. Alisson R. Cadore	1110	Controlling Memory Effects in 2D Material Systems via Electrostatic and Optical Modulation
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: J4 [Invited Faculty/ Scientist Speakers]: Online mode**

Link: <https://meet.google.com/ged-paxi-xch>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Nisha Gaur	1119	Mechanistic Investigation of Industrial Wastewater Treatment by Green Synthesized Silver Nanoparticles : Experimental Approaches
03:15 pm	Dr. Chikkappa Udagani	1131	Dielectric and Magnetic Behaviours of Green Synthesized Pure and Silver Doped Zinc Ferrite
03:30 pm	Dr. Kiran Soni	1175	Amorphous Nanoparticles as a Highly Efficient and Selective Catalyst for the Reductive Amination
03:45 pm	Dr. K. Venkatesan	1199	Investigation on structural, particle size, surface morphology, magnetic behaviour and cytotoxicity measurements of Zn <sub>x</sub> Fe <sub>2-x</sub> O <sub>4</sub> nanoparticles

			prepared by self-sustained solution combustion synthesis (SCS)
04:00 pm	Dr. Sourav Saha	1206	Synthesis and Electrical Characterisation of Partially Stabilised ZrO <sub>2</sub> - Carbon Nano Tube Nanocomposite
04:15 pm to 04:30 pm	Dr. Sangeeta Adhikari	1357	Efficient charge separation in full spectrum (UV-VIS-NIR) responsive Ag <sub>2</sub> S/Co <sub>1-x</sub> S@Co <sub>9</sub> S <sub>8</sub> @C photocatalyst for photo-oxidation of persistent organic pollutants
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: K4 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/fkz-bcba-yfb>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Arvind Kumar Saxena	1358	Production and characterization of Atomic and Molecular Clusters in Gas-Phase
03:15 pm	Dr. Soumya Saswati Sarangi	1391	MD Simulation Studies on Mechanical Properties of Nickel Nanowires: Effect of Temperature and Diameter
03:30 pm	V. Inbaraj	1396	Bioactive tannic acid-loaded PVA/HEC electrospun nanofibrous scaffolds for antibacterial and in vitro wound healing applications.
03:45 pm	Dr. Aishwarya S	1422	Decalepis hamiltonii derived gold nanoparticles and photodynamic cytotoxic evaluation on skin melanoma (B16F10) cells as an effective drug delivery vehicle
04:00 pm	Dr. Palanisamy Deepa	1473	Understanding the Potency of Bionanotubes through Quantum Mechanical Approach
04:15 pm to 04:30 pm	Dr. Sumona Sinha	132	Ultrafast Charge Transfer Dynamics at F16CuPc/TiO <sub>2</sub> Interface
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: L4 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ijj-iyuu-hdw>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Shom Prakash Kushwaha	354	Two Dimensional NMR Spectroscopy for Molecular and Interfacial Characterization of Natural Product Loaded Nanoparticles
03:15 pm	Dr. Raksha Pandey	462	ViVideo Forgery Detection using Machine Learning
03:30 pm	Dr. Pooja Sinha	483	The Future of Precision Oral Health: Integrating Digital Twins, Single-Cell Multi-omics, and AI-Driven Bioinformatics
03:45 pm	Prof. Nahid Fatima	837	Solutions of Differential Equations using Analytical Methods

04:00 pm	Dr. Deepa V. Babji	974	Microsatellite (D9S1747) -Based Molecular Margin Assessment in Oral Squamous Cell Carcinoma: Correlation with p16 Immunoeexpression
04:15 pm to 04:30 pm	Dr. Nitish Raja	983	Deformation induced precipitate evolution during thermomechanical processing of 7XXX Al alloy: A TEM study
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: M4 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/cxi-vipo-uap>

Date: 07.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. S. Srinivasa Rao	1170	Non-Intrusive Optical Diagnostics: Interferometry, microscopy and high-speed techniques in determination of dynamics of flows and heat transfer characteristics
03:15 pm	Dr. Krupa S	1274	Characterization and Molecular Insights into Galactosidases from plant source: Optimal Activity and Structural Analysis
03:30 pm	Dr. Ajita Kumari	1482	Role of X-Ray Fluorescence in Advanced Characterization of Minerals and Materials
03:45 pm	Dr. Devanushi Dutta	309	Nanocoating: Novel approach to extend post-harvest life
04:00 pm	Dr. Rittick Mondal	342	Rapid Lateral Flow Detection of Bombyx mori Bacterial Pathogens Using Aptamer-AuNPs Probes
04:15 pm to 04:30 pm	Dr. Deblu Sahu	537	AI-Driven Optical Spectroscopy for Real-Time Food Spoilage Detection toward Climate-Resilient Agri-Food Supply Chains
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: A5 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/oue-sgog-hek>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. A B Hemavathi	559	Sustainable Polymer Nanocomposites for Advanced Functional Food Packaging – Challenges Involved
05:15 pm	Dr. G. Maheswari	670	An automated actuation module for early detection of insect infestation in stored food commodities
05:30 pm	Dr. Manashi Das Purkayastha	847	Carbon-nanodots from oilseed processing waste : Role in food packaging
05:45 pm	Dr. Sakshi Sharma	874	Biofertilizers: A Way Towards Sustainable Agriculture
06:00 pm	Dr. Pradip Kar	943	Poly(o-phenylenedimaine) silver nanocomposite based enzyme-free glucose or glutamate sensor

06:15 pm to 06:30 pm	Dr. Amiya Kumar Tripathy	949	Predictive Cognitive Agro-Systems: AI-Orchestrated Smart Materials, IoT, and Digital Twin Architectures for Climate-Resilient Agriculture
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**Technical Session: B5 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/jfr-bzpz-kgz>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Prof. Panchanan Pramanik	1056	A great promise of Simple Material Chemistry for Agriculture
05:15 pm	Dr. Vinod Kumar Yadav	1064	AI-IoT Enabled Early Disease Prediction and Behavioral Monitoring System for Precision Shrimp Aquaculture
05:30 pm	Dr. Deepa P.	1098	Role of Invasive Plant-Mediated Silver Nanoparticles in Modulating Seed Germination Dynamics of Crops
05:45 pm	Dr. Sanchaita Lala	1143	Effect of Priming with Copper-based Nanoparticles on Germinating Seeds and Seedlings of <i>Cicer arietinum</i> (gram/chickpea)
06:00 pm	Dr. Panchami. P.S.	322	Microbial valorization of feather keratin waste for sustainable agricultural applications
06:15 pm to 06:30 pm	Dr. Ambika Pradhan	378	Mixed Natural Surfactants System: Synthesis and Performance Evaluation of Surface-Active Properties

**Technical Session: C5 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/xei-csoq-hcf>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Rahul R Rao	386	Construction with Mycelium
05:15 pm	Dr. Saranya Kuppusamy	417	Biomining-Derived Bioamendment for Ecosystem Restoration and Circular Economy in Tamil Nadu, India
05:30 pm	Dr. Moumita Ray	440	Bioactive Compounds from Molluscs: A Promising Frontier in Nutraceutical and Functional Food Development
05:45 pm	Dr. Pratiksha Saxena	476	Stochastic simulation in controlled drug delivery
06:00 pm	Dr. B.V. Bahoria	477	Latex-Modified Mortar Using <i>Calotropis Procera</i> : A Green Innovation
06:15 pm to 06:30 pm	Dr. Himadri Saha	500	Circular Economy Strategies: Harnessing Rubber Seed Biomass for Sustainable Aquafeed Production

**Technical Session: D5 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ihx-nguh-szb>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Santosh Kumar Verma	510	Green Intelligence: Aligning Bio-Inspired Computing with Sustainable Energy Systems
05:15 pm	Dr. C Sharmila	518	Eco-Engineered Biopolymer - an Alternative to Synthetic Plastics for Packaging and Multifunctional Applications
05:30 pm	Dr. Suman Lata	538	Harnessing CRISPR-Cas9 genome editing to engineer quality traits in tomato
05:45 pm	Dr. Reecha Sahu	540	Nano Organosolv Lignin–PVA Hydrogels from Waste Rice Stubble for Efficient Heavy Metal Removal and Wastewater Remediation
06:00 pm	Dr. Ritu Malik	568	Hydrogels: Biobased biodegradable and green materials for sustainable agriculture and rural systems.
06:15 pm to 06:30 pm	Dr. Pallavi Ammu Thomas	569	VIRTUAL REALITY IN TOBACCO CESSATION: A STRATEGIC BATTLE AGAINST TOBACCO USE THROUGH CUTTING-EDGE TECHNOLOGY

**Technical Session: E5 [Invited Faculty/ Scientist Speakers]: Online mode**

Link: <https://meet.google.com/zuh-ctwq-dax>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Ushma Joshi	582	Microbial endophytes: Plant probiotics for sustainable agriculture
05:15 pm	Dr. Chandra Mukherjee	583	Ferrite Nanoparticles: Sustainable Solutions for Pollution Control and Biomedical Challenges
05:30 pm	Dr. Hema Kundra	592	Sustainable Zeolite Synthesis from Fly Ash for Environmental Restoration
05:45 pm	Dr. Pavithra M K S	595	SYNTHESIS AND CHARACTERIZATION OF A NOVEL BIOCERAMIC WOLLASTONITE SCAFFOLD FROM DISCARDED VEGETABLE WASTES
06:00 pm	Dr. Sridevi Vishnumolakala	614	Multi-dimensional Analysis of Heavy Metal Tolerance in <i>Paenibacillus dendritiformis</i> VSR 204: From Genetic Engineering to Environmental Application
06:15 pm to 06:30 pm	Dr. Pankaj Jha	619	BIODEGRADABLE STARCH BASED NANOCOMPOSITES SUSTAINABLE FOOD PACKAGING APPLICATION

**Technical Session: F5 [Invited Faculty/ Scientist Speakers]: Online mode**

Link: <https://meet.google.com/sun-qwvt-ogm>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. G. Padma Priya	653	Extraction of oil from the seeds of Brussels sprouts and formulation of oil pellets as a Dietary Supplement
05:15 pm	Dr. Praveen Kumar Nagadesi	690	Harnessing Wood-Decaying Fungi for Myco-material Innovation and Sustainability in India
05:30 pm	Dr. Rakshitha D	696	Integrating Ayurvedic Nutraceuticals into Modern Human and Veterinary Nutrition Systems
05:45 pm	Dr. Ashima Srivastava	698	Sugarcane Bagasse Fibres as Sustainable Absorbent Components in Sanitary Napkins
06:00 pm	Dr. Ambati Padmaja	772	Valorization of Piper betel processing by-products: Extraction, characterization, assessment and utilization as natural antioxidant
06:15 pm to 06:30 pm	Dr. V.T. Iswariya, Dr. Ramya Balaprabha, Ms. G.P.V.L.Varshini, Mr. K.Preetham, Mr. G.Sai Kiran	854	From Waste to Worth: Bio-Inspired Circular Packaging for Food Security

**Technical Session: G5 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/caz-csnm-xhk>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Vijayashree Nayak	883	Encapsulated nutritional supplement as a drug delivery vehicle
05:15 pm	Dr. Somdatta Ghosh	900	Application of Arbuscular Mycorrhizal fungal inoculum for wasteland management with cropping
05:30 pm	Dr. Leena V. Hublikar	982	“Advanced Biochar Modified Adsorbents for Efficient and Sustainable CO <sub>2</sub> Capture and Sequestration”
05:45 pm	Dr. Akshara Makrariya	993	A Machine Learning Validation for Identifying the difference between Benign Cysts and Malignant Tumor in Breast Cancer
06:00 pm	Dr. Namrata Singh	1099	Facile Synthesis and Systematic Characterization of Plant Leaf Derived Green Graphene Quantum Dots
06:15 pm to 06:30 pm	Dr. Aditi Smith Gogoi	1114	Tea waste: A potential substrate for biodegradable product development for sustainable agriculture

**Technical Session: H5 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/tfb-xrtj-ntu>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
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05:00 pm	Dr. Tresa Sunitha George	1116	Development and Characterization of Bio-Based Nanocellulose from Plant Biomass
05:15 pm	Dr. M Divya Gnaneswari	1256	Assessing Plant-Based Immunostimulant Delivery: Injection vs. Dietary Supplementation
05:30 pm	Dr. Chhaya Goyal	1265	Sustainable valorization of fruit and vegetable peels into prebiotics
05:45 pm	Dr. Smita Bhuyan,	1440	Bio-Based Innovations from Roselle Biomass for Sustainable Zero-Waste Technologies
06:00 pm	Dr Nutan Rani	1441	Phytomediated Synthesis and Biomedical Potential of ZnO Nanoparticles
06:15 pm to 06:30 pm	Dr. Madhura R	1433	Quantum-classical co-design

**Technical Session: I5 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ujt-yfar-xgf>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Deepti Verma	1454	Advanced LED-Implanted Microfluidic Photoreactor for Efficient Photocatalytic Synthesis
05:15 pm	Dr. Sunitha A P	1515	Kinetics of Hydrogen Production and Current Status of Green Hydrogen Production
05:30 pm	Dr. Sakshi Saxena	1447	Bio-based, biodegradable, and green materials for sustainable agriculture and rural systems
05:45 pm	Dr. Jyoti Dahiya	1510	Stage-Specific Chemometric Profiling of Punica granatum for Sustainable and Climate-Resilient Agro-Food Systems
06:00 pm	Dr. P. Amudha	1495	The Impact of Chebulagic Acid on Anti-Cancer Activity Across Different Human Cancer Cell Lines
06:15 pm to 06:30 pm	Dr. R. Lalneihpuii	1489	Structural functions and acoustic dynamics of liquid metals: A theoretical Investigation

**Technical Session: J5 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ged-paxi-xch>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. K. Ashokkumar	1507	Seed Priming with Green-Synthesized ZnO Nanoparticles Enhances Alkalinity Stress Tolerance in South India Popular Rice Varieties
05:15 pm	Dr. Devi Kala R	1478	Next-Generation Bio-Inspired Materials for Environmental Sustainability and Socioeconomic Development
05:30 pm	Dr. Meera A.P	1539	Graphene Oxide–TiO <sub>2</sub> Nanocomposites for Synergistic Photocatalytic Removal of Malachite Green Dye'
05:45 pm	Dr. Summaiya Lari	1516	Dermal Pesticide Exposure Assessment among Farm-Workers

06:00 pm	Dr. Nisha Yadav	1521	Influence of rare earth Dy concentration on electrical properties of BST single crystals
06:15 pm to 06:30 pm	Dr. Prajina N V	1481	Surface Modification of Ti-6Al-4V with Electric Discharge Processes and their Characterisation

**Technical Session: K5 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/fkz-bcba-yfb>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr Arun Kumar	1541	Advancing Sustainable Hydrogen Production through Generative AI-Assisted Catalyst Discovery and Process Engineering
05:15 pm	Dr. Shubham Dadhich	757	4H-21DNTT Low Contact Resistance Organic Transistor
05:30 pm	Dr. Ranjeeta Bhande	1041	Performance Evaluation of Packed Bed Continuous Reactor for Simultaneous Removal of Sulfate, Nitrate, and Arsenic in Biological Process using Rice Straw as a Carbon Source
05:45 pm	Dr. Santosh Shriram Katkar	161	From Laboratory to Application of Ferrite Materials: Synthesis Techniques and Their Implications
06:00 pm	Dr. Madhu A	170	Evaluation of Bioactive Hydroxyapatite for Advanced Biomedical Applications
06:15 pm to 06:30 pm	Dr. Nrupa Keshari Rana	1296	Experimental Study on Heading Control of Underwater Thrusters for Subsea Mining Systems

**Technical Session: L5 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ijj-iyuu-hdw>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Dr. Jaspal Singh	197	Plasmonic-TMDCs nanohybrids for environmental applications
05:15 pm	Dr. Hemaprobha Saikia	344	Bio-Derived Functionalized B/nZVCu–M Nanoparticles as Antibacterial Coatings for “Eri” Silk
05:30 pm	Dr. Archana Meena	545	Soil Respiration and Carbon Cycling in Tropical Forest Ecosystems
05:45 pm	Dr. K M Eshwarappa	631	Radiation-engineered glutaraldehyde crosslinked PVA/GO-Ag: an emergent polymer nanocomposite
06:00 pm	Dr. Akshay Arjun	1271	Engineered Mg <sub>2</sub> GeO <sub>4</sub> :Eu <sup>3+</sup> , Sm <sup>3+</sup> Nanophosphors with Efficient Energy Transfer for High-Performance Anti-Counterfeiting and Amber-Red Optoelectronic Applications
06:15 pm to 06:30 pm	Dr. Shikha Chauhan	1105	Effect of BiVO <sub>4</sub> nanoparticles on the dielectric and electro-optical properties of a 5CB nematic liquid crystal material

**Technical Session: M5 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/cxi-vipo-uap>

Date: 07.04.2026

Time: 05:00 PM to 06:30 PM

<b>Time</b>	<b>Authors</b>	<b>Paper ID</b>	<b>Paper Title</b>
05:00 pm	Prof. Minakshi Sharma	1249	Development of a rapid and ultrasensitive acrylamide nanosensor based on TiO <sub>2</sub> NPs/GQDs nanocomposite
05:15 pm	Dr. Y.Aparna	1399	Anticipation of Composite Materials as Equitable Materials – A Review
05:30 pm	Ms. Parbati Naik	1401	Structural and dielectric properties of La-doped BiFeO <sub>3</sub> –KNbO <sub>3</sub> solid solution ceramics
05:45 pm	Dr. P. Saravanan	1402	Advanced Nano-Hybrid Coatings for Sustainable Corrosion and Biofouling Protection
06:00 pm	Dr. Ashwini Sood	1403	Quantitative validation of the Smith–Ewart nucleation framework via first-principles population balance modeling
06:15 pm to 06:30 pm	Dr. Sandhya K. M.	1407	Fishing gear materials as ghost gears: Hidden threat beneath the waves

**ICRTMD-2026**

**DAY 3**

**08/04/2026**

4<sup>th</sup> International Conference on  
**Recent Trends in Materials Science & Devices 2026**  
**(ICRTMD-2026)**

6-8 April, 2026

Organized by

Department of Physics of JVMGRR College,  
Charkhi Dadri, Haryana, India

### Program Schedule

**Day: 3**

**Date 08/04/2026**

**Online mode**

#### Technical Sessions:

- **Parallel Technical Sessions for each time slot: 13.**
- **Duration of each Technical Session: 90 minutes**
- **Total Technical Sessions Links: 13.**
- **Total Technical Sessions on Day-3: 65.**

**Link of Talks: Provided on the top of each Technical Session**

Date	Time	Event Information
08.04.2026	09:00 AM to 10:30 AM	13 Parallel Technical Sessions from A6 → M6
<b>08.04.2026</b>	<b>10:30 AM to 11:00 AM</b>	<b>Break for 30 minutes</b>
08.04.2026	11:00 AM to 12:30 PM	13 Parallel Technical Sessions from A7 → M7
<b>08.04.2026</b>	<b>12:30 PM to 01:00 PM</b>	<b>Break for 30 minutes</b>
08.04.2026	01:00 PM to 02:30 PM	13 Parallel Technical Sessions from A8 → M8
<b>08.04.2026</b>	<b>02:30 PM to 03:00 PM</b>	<b>Break for 30 minutes</b>
08.04.2026	03:00 PM to 04:30 PM	13 Parallel Technical Sessions from A9 → M9
<b>08.04.2026</b>	<b>04:30 PM to 05:00 PM</b>	<b>Break for 30 minutes</b>
08.04.2026	05:00 PM to 06:30 PM	13 Parallel Technical Sessions from A10 → M10
08.04.2026	06:30 PM to 07:00 PM	<b>Valedictory Function (Offline &amp; Online)</b> <b>Link: <a href="https://meet.google.com/spk-kfhu-gvt">https://meet.google.com/spk-kfhu-gvt</a></b>

**Technical Session: A6 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/oue-sgoq-hek>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Sangram Keshari Das	110	Magnetic field dependent of cross-over temperature in SmFeO <sub>3</sub>
09:15 am	Dr. Perepi Rajarajeswari	118	A study on the effects of Ammonium perchlorate on VCR diesel engine fuelled with soap-nut oil biodiesel/diesel blends
09:30 am	Dr. Pravin Bhalerao	122	Epoxy Curing using Solid Hardener in Solution Phase: Corrosion Resistance Applications on Glass Surface
09:45 am	Dr. Dorota Korte	148	Characterization of Fe <sub>2</sub> O <sub>3</sub> based nanocomposites by photothermal techniques
10:00 am	Dr. Shiva Kumar Nagavelly	169	Mechanical Characterisation of ZA-27 Alloy Metal Matrix Nanocomposites: The Role of Nanoparticles
10:15 am to 10:30 am	Dr. L. Thansanga	200	Study of the Influence on Structural, Dielectric, Electrical and Magnetic Properties of Yttrium Modified Bismuth Ferrite Ceramics
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: B6 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/jfr-bzpz-kgz>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Suresh Kumar	204	Synthesis, Characterization, and Applications of NNBNMPP as Corrosion Inhibition Studies
09:15 am	Dr. Nisha Tamta	223	Impact Behavior of Kenaf Fiber Reinforced Functionalized Styrene Acrylonitrile Composites
09:30 am	Dr. Anindya Sarkar	224	Positron annihilation spectroscopy and non-destructive characterization of metal oxide semiconductors
09:45 am	Dr. Kunwar Vikram	233	Phase Transition Dynamics of HBDBA-MWCNT Nanocomposites Probed by Temperature-dependent Raman Spectroscopy
10:00 am	Dr. Anirban Kundu	250	Mechanical Properties of Centimeter Scale Single-Crystal Graphene
10:15 am to 10:30 am	Dr. Sunita Kumari	1363	EVALUATION OF CARBON DIOXIDE EMISSION REDUCTION POTENTIAL OF AGRICULTURAL WASTE – BASED CONCRETE
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: C6 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/xei-csoq-hcf>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Shailja Tiwari	282	Effect of Al doping in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> on its structural, electrical and magnetic properties
09:15 am	Dr. Prakash Kanjariya	298	Structural and Functional Optimization of Bismuth Ferrite through Dual-Site Sm and Cr–Mg Doping
09:30 am	Dr Bidyanand Mahto	306	Performance Evaluation of Different Coating Materials in Delamination for Micro-Milling Applications on High-Speed Steel Substrate
09:45 am	Dr. Sunanda Sharda	349	Doping Impact on Ge-Se-Sb Glasses: Structural and Nonlinear Optical Properties for Infrared Devices
10:00 am	Dr. Himangi T. Neve	352	The use of innovative mix technology enhances the qualities of recycled glass-filled polypropylene
10:15 am to 10:30 am	Dr. Sashi Sekhar Behera	368	High field magnetization of Eu spin clusters, carrier spin polarization and Lattice diamagnetism in p-type [Sn] <sub>1-x</sub> [Eu] <sub>x</sub> Te Diluted Magnetic Semiconductor
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: D6 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/ihx-nguh-szb>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Prashu Jain	385	Influence of Metal Nodes on the Electrochemical Behavior of 3d Transition Metal-BDC Metal Organic Frameworks
09:15 am	Dr. Saruchi Rani	404	Enhanced Photocatalytic Degradation of Environmental Pollutants Using Metal Oxide Nanocomposites
09:30 am	Dr. Krishna Meel	410	Graphene: Material Properties, Characterization Techniques, and Emerging Applications
09:45 am	Dr. Manojit De	423	Designing NiFe <sub>2</sub> O <sub>4</sub> Nanostructures for Enhanced Structural and Magnetic Performance
10:00 am	Dr Nijhuma Kayal	451	Processing and Performance of Silicon carbide Ceramic Composite Filtration Membrane
10:15 am to 10:30 am	Dr. Amit Sharma	494	Laser Dyes and their Surroundings
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: E6 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/zuh-ctwq-dax>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
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09:00 am	Dr. Usha M. K.	495	Orientational order parameter of a liquid crystalline compound using optical methods
09:15 am	Dr. Amit Kumar Singh	509	Dimensionality-driven interfacial magnetic coupling in double perovskite oxide
09:30 am	Dr. Snigdha Bhardwaj	520	Molecular Modeling of novel Quorum Sensing Inhibitors for targeting infections cause by <i>Pseudomonas aeruginosa</i>
09:45 am	Dr. Sanjay Kumar Sinha	548	Applications of Ion Implantation and RBS/Channelling for Surface Modification and Analysis
10:00 am	Dr. Annu Rani	574	Characterization and Evaluation of Different Woods' Suitability for Use in Agricultural Tools and Components
10:15 am to 10:30 am	Dr. P. Evangelin Teresa	584	Effect of modifiers on the structural and luminescence properties of Eu <sup>3+</sup> doped borotelluro phosphate glasses for red laser application
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: F6 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/sun-qwvt-ogm>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Kiran J Nakum	586	Salicylaldimine-Based Liquid Crystalline Compounds: From Molecular Design to Mesomorphic Stability
09:15 am	Dr. Sambhunath Bera	591	Structure & magnetic properties of Cr/SmCo <sub>5</sub> /Pt/Co <sub>20</sub> Fe <sub>60</sub> B <sub>20</sub> multilayers: Effects of ion irradiation
09:30 am	Dr. Archana Dagar	593	Sustainable Polymer Composites Reinforced with Fly Ash–Derived Cenospheres
09:45 am	Dr. Jyoti Prakash	638	Impact of Calcination Temperature on Multicomponent Spinel Ferrites: A Study on Structural, Optical, Antioxidant and Antibacterial Properties of (Co <sub>0.2</sub> Zn <sub>0.2</sub> Zr <sub>0.2</sub> Ni <sub>0.2</sub> Mg <sub>0.2</sub> )Fe <sub>2</sub> O <sub>4</sub>
10:00 am	Dr. Amit Kumar Bhattacharjee	644	Distinct kinetic pathways of homogeneous nucleation in thermal nematogenic systems
10:15 am to 10:30 am	Dr. Ramon González Calvet	682	Adsorption Isotherm Deduced from the Billiard Model and its Generalization to Real Gases
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: G6 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/caz-csnm-xhk>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Mousumibala Sahoo	742	Fluctuation induced electrical conductivity in YBCO/Sb <sub>2</sub> O <sub>3</sub> superconductor composite

09:15 am	Dr. Gaurav Bajpai	761	Synthesis and Mechanical Characterization of AA7075–Al <sub>2</sub> O <sub>3</sub> Nanocomposites through Ultrasonic Assisted Stir Casting Techniques
09:30 am	Dr. Ambika Rani	804	Mid-Infrared Spectroscopic Analysis of PMMA after B <sup>+</sup> Ion Implantation: Structural and Surface Modifications
09:45 am	Dr. Rachna Gupta	664	Beyond Bandages: Next-Generation Peptide-Engineered Nanogels for Diabetic Wound Repair
10:00 am	Dr. Harita Kumari	857	Comparative study of Different Rare Earth Ions (Gd <sup>3+</sup> , Ce <sup>3+</sup> , Yb <sup>3+</sup> ) on the Structural and Photocatalytic Properties of SnO <sub>2</sub> Nanoparticles
10:15 am to 10:30 am	Dr. Namita Shadangi	858	Investigation of Elastic Anomalies due to Induced Non-Magnetic Impurity in Some Alloyed Heavy Fermion (HF) Systems
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: H6 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/tfb-xrtj-ntu>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Varsha V. Koppal	861	Photophysical and Electrochemical properties of a Chalcone Derivative: 8-methoxy-3-((E)-3-(thiophen-2-yl)acryloyl)-2H-chromen-2-one
09:15 am	Dr. Jadala Shankaraswamy	906	Synthesis and Characterization of Multi-Substrate Fruit Waste Granular Activated Carbon for Enhanced Cadmium Removal from Contaminated Water
09:30 am	Dr. Raghavendra N	934	Studies on dry sliding wear behavior of Al/Al <sub>2</sub> O <sub>3</sub> PMMC by Artificial Neural Network
09:45 am	Dr. Shweta Singh	945	Influence of Eroding Velocity and Impingement Angle on the Erosive Wear Behavior of Jute–Basalt Composites
10:00 am	Dr. M. Usha Rani	1031	OPTICAL PROPERTIES OF MATERIALS
10:15 am to 10:30 am	Dr. L. Anitha, Rajalakshmi L, L.Vadivakarasi	1070	Nonlocal Strain Gradient Nonlinear Poro-Magnetic-Thermal Vibration of Functionally Graded Embedded Nanobeams under Parametric Excitation using Homotopy Perturbation Method
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: I6 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ujt-yfar-xgf>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Thangavel Pradeesh Kumar	1074	Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> ) Nanomaterials for Sustainable Agriculture: Functional Properties and Material Characterization

09:15 am	Dr. Shital Potdar	1102	Synthesis, Characterization, Dielectric and Magnetic Properties of Mg Substituted Ni-Cu Ferrites
09:30 am	Dr. Sudesh Sharma	1115	Ferromagnetic Behavior of Wide Bandgap Semiconductors
09:45 am	Dr. Divya Sareen	1132	A Rhodamine-Coumarin Conjugate as a Dual-Channel Dual-Analyte Probe with Logic Gate Operation
10:00 am	Dr. Santhosh Kumar Alla	1134	Defect-Mediated Room-Temperature Ferromagnetism in Doped CeO <sub>2</sub> Nanostructures
10:15 am to 10:30 am	Dr. Sanoujam Dhiren Meetei	1151	Integrating PL, FTIR, and Derivative Techniques in Characterisation of Luminescent Nanophosphor
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: J6 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ged-paxi-xch>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Manisha Kumari	1178	Synthesis, Characterization and Magnetic Properties of Pure and Mn doped NiO Nano Particles
09:15 am	Dr. Santosh Kumar Singh	1183	Rare Intermolecular Ni···H Anagostic and Non-Covalent C–H···X (N, S, H) Hydrogen Bonding Interactions Assisted Supramolecular Structure and Antimicrobial Activity Study of Ni (II) dithio Salts
09:30 am	Dr. Manju Bala	1190	Synthesis, characterization and optoelectronic properties of europium(III) metal complexes
09:45 am	Dr. Barnali Ghosh (Saha)	1197	Impedance spectroscopy study of the 2D hybrid halide perovskite BA <sub>2</sub> PbBr <sub>4</sub> (BA=butyl-ammonium, C <sub>4</sub> H <sub>9</sub> NH <sub>3</sub> )
10:00 am	Dr. Vineeta	1205	Comparative optical response of LPE synthesized MoS <sub>2</sub> and MoSe <sub>2</sub>
10:15 am to 10:30 am	Dr. Lata Dinesh Shete	1261	Photoelectrocatalytic Degradation of Methylene Blue using Heterostructured Nanocrystalline CdSe/TiO <sub>2</sub> Thin Film under Visible/Solar Light
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: K6 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/fkz-bcba-yfb>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Manisha Chaudhary	1262	Investigation of thermal, electro-optical and dielectric behaviour of silver nanoparticles (Ag-NPs) doped liquid crystals Matrix.
09:15 am	Dr. Tanmoy Das	1263	A literature review on the stretch forming behavior of dual phase steel sheets
09:30 am	Dr. C Pandurangappa	1282	Gamma Irradiation Induced Structural and Optical Modulation in Er <sup>3+</sup> -Doped CaF <sub>2</sub> Nanocrystals

09:45 am	Dr. E. Kayalvizhy	1283	Synthesis and Biological Evaluation of CaCO <sub>3</sub> -Reinforced Nanocomposite Hydrogels
10:00 am	Dr Tarana Afrin Chandel	1346	Material Degradation Analysis in Silicon Solar Cells under Environmental Stress
10:15 am to 10:30 am	Dr. Vinod Kumar Dwivedi	1383	Improved magnetic and optical properties of CuO nanoparticles prepared by green route
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: L6 [Invited Faculty/ Scientist Speakers]: Online mode**

Link: <https://meet.google.com/iji-iyuu-hdw>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Sunanda Kumari Patri	1392	Evaluation of Structural and Functional Properties of BZT-CFO Particulate Composites
09:15 am	Dr. Arkady Shteinbok	1414	New building materials
09:30 am	Dr.Subha Krishna Rao	163	Materials Engineering in Photonic Sensing: Integrating Functional Nanomaterials for Enhanced VOC Selectivity
09:45 am	Dr Richa Verma	269	DFT Investigation of MOF–Hydrogel–Graphene Hybrid Sorbents for Atmospheric Water Harvesting
10:00 am	Dr. Subash Chandra Sahoo	331	Sensing, Switching, and Shaping: Stimuli-Responsive Molecular Crystals as Smart Materials
10:15 am to 10:30 am	Dr. Gitika Dhingra	379	In Situ Gels: Revolutionizing Targeted Drug Delivery
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: M6 [Invited Faculty/ Scientist Speakers]: Online mode**

Link: <https://meet.google.com/cxi-vipo-uap>

Date: 08.04.2026

Time: 09:00 AM to 10:30 AM

Time	Authors	Paper ID	Paper Title
09:00 am	Dr. Rohan Majumder	514	Smart Shape Memory Alloys for sustainable structural damping
09:15 am	Dr. Sadhika Khullar	555	A nickel (II) based probe for selective sensing of 2,4,6-trinitrophenol at ppb level in aqueous medium
09:30 am	Dr. Kanu Katariya	600	Tunable Mesomorphic Behavior of Azo/Ester-Functionalized Cyanobiphenyl Liquid Crystal Dimers
09:45 am	Dr. Payel Das	648	Exploring Memory Effects in Thermoelastic Plates under Nonuniform Thermal Loading
10:00 am	Dr. Shibnath Samanta	649	From Pinched to Normal: Structural Origin and Restoration of Constricted Hysteresis in Hf-Modified PZT
10:15 am to 10:30 am	Dr. K Venkata Ratnam	722	Electrochemical Sensing with Metal Oxides: A Comparative Analysis of MO (M=Cu and Ni) for Detecting Dopamine and Tyrosine
<b>10:30 am to 11:00 am</b>	<b>Break for 30 minutes</b>		

**Technical Session: A7 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/oue-sgoq-hek>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Sudhanshu Kacker	862	Smart and Responsive Materials for Monitoring Yoga-Induced Autonomic and Cardiovascular Adaptations Using Heart Rate Variability
11:15 am	Dr. Raja Preethi V	916	Sunlight-Driven Degradation and Hydrogen Generation using Nanostructured Brownmillerite Ba <sub>2</sub> In <sub>2</sub> O <sub>5</sub> -TiO <sub>2</sub> Heterojunction
11:30 am	Dr. Mohsina Taj	935	Evolution of PEDOT: From Conducting Polymer to Smart Functional Material Platform
11:45 am	Dr. I. Loyola Poul Raj	948	Room-Temperature Gas Sensing Using Low-Cost 2D Materials: Advances, Design Strategies, and Future Perspectives
12:00 noon	Dr. Dharendra Sahoo	992	Digitalizing separation science with electro-tunable ultrafiltration membranes
12:15 pm to 12:30 pm	Dr. Vivek Kumar	1092	Comparative Analysis of Circular and Three-Lobe Journal Bearings Using Smart Electrorheological and Magnetorheological Lubricants
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: B7 [Invited Faculty/ Scientist Speakers]: Online mode**Link: <https://meet.google.com/jfr-bzpz-kgz>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Jyoti Rani	1180	Enhanced dielectric, ferroelectric and piezoelectric properties of lead-free (Ba,Ca)(Sn,Ti)O <sub>3</sub> ceramics by optimisation of sintering temperature
11:15 am	Dr. R. Subhashini	1188	Green Self-Powered IoT Sensors Using L-Threonine Piezoelectric Energy Harvesters
11:30 am	Dr. Arti Chouhan	1229	Engineered MOFs for efficient daylight-induced photocatalytic degradation of organic dyes
11:45 am	Dr. Sayantan Guha	1266	Micromechanical characterization and thermoelastic damping in doubly-clamped PTFRC microbeams
12:00 noon	Dr.M.Hazeen Fathima	1381	Light-Responsive Smart Materials: Mechanisms and Potential Applications in Modern Construction
12:15 pm to 12:30 pm	Dr. Shilpi Agarwal	104	Flame Retardants: Enhancing Material Safety Against Fire Risks
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: C7 [Invited Faculty/ Scientist Speakers]: Online mode**

Link: <https://meet.google.com/xei-csoq-hcf>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Peramjeet Singh	123	Novel H <sub>2</sub> gas sensor: Effect of gamma radiations on V <sub>2</sub> O <sub>5</sub> /SWCNT Thin films
11:15 am	Dr. Sangita Kumari	136	White Graphene: An Emerging Two-dimensional Nanomaterials
11:30 am	Dr. Swati Vaid	175	An Overview of Metamaterials for Antenna Applications
11:45 am	Dr. Monalisa Pal	213	Amorphous Carbon: An Emerging Material for Advanced Electronics
12:00 noon	Dr. P. Aruna	308	Emerging 2D Materials for Electrochromic Devices
12:15 pm to 12:30 pm	Dr. Sushil Kumar Maurya	314	V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> Catalyzed Nitroreduction and Amine alkylation
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

Technical Session: D7 [Invited Faculty/ Scientist Speakers]: Online mode

Link: <https://meet.google.com/ihx-nguh-szb>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Pramod Kumar	318	Tuning of two-dimensional electron gas (2DEG) at LaAlO <sub>3</sub> /SrTiO <sub>3</sub> by Controlled doping of Cr at Al site
11:15 am	Dr. Preeti Gulia	369	Dispersion and Transmission Characteristics of Locally Resonant Acoustic Metamaterials
11:30 am	Dr. Soumyabrata Goswami	370	Efficient and Sustainable Synthesis of Bioactive 4H-Chromenes Using a Recyclable Cu(II)-Based Nano-MOF Catalyst
11:45 am	Dr. Subhasis Roy	429	Hybrid Nanocomposite Architectures for Enhanced Performance and Long-Term Stability in Perovskite Solar Cells
12:00 noon	Dr. Sujata	470	Transforming Materials Science Through Agentic AI: Autonomous Discovery, Design, and Optimization
12:15 pm to 12:30 pm	Dr. Abhisek Bandyopadhyay	508	Quantum Spin Liquid Ground State in the Trimer Rhodate Ba <sub>4</sub> NbRh <sub>3</sub> O <sub>12</sub>
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

Technical Session: E7 [Invited Faculty/ Scientist Speakers]: Online mode

Link: <https://meet.google.com/zuh-ctwq-dax>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
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11:00 am	Dr. Payal Wadhwa	618	Giant Spin-polarized Seebeck Effect in LaAlO <sub>3</sub> /EuTiO <sub>3</sub> /SrTiO <sub>3</sub> heterostructure
11:15 am	Dr. Bakiyaraj G	677	Photocatalytic characteristics of ZnCr <sub>2</sub> O <sub>4</sub> -based binary and ternary heterostructures examined for MB and Cip degradation
11:30 am	Dr. Saswata Halder	787	Interesting magnetic ground state in single crystalline Ce <sub>3</sub> ZrBi <sub>5</sub>
11:45 am	Dr. Priyanka Verma	794	Latent Fingerprint Detection Using Graphitic Carbon Nitride (g-C <sub>3</sub> N <sub>4</sub> ) and FT-IR Analysis
12:00 noon	Dr. Subha Sadhu	975	Impact of Precursors on RT Synthesis of Luminescent CsPbBr <sub>3</sub> Perovskite QDs for Display Devices
12:15 pm to 12:30 pm	Dr. Rohit Raina	1032	Computational Intelligence in Healthcare: Artificial Intelligence and Deep Learning Applications
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: F7 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/sun-qwvt-ogm>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. R.V.S. Lalitha	1052	Qubit Engineering: Study of Advancement of Quantum Computing through Material Science
11:15 am	Dr. Rohit Singh	1458	Modeling magnetic transitions in uranium superconductors
11:30 am	Dr. Nilay Maji	105	From Spins to Switches: SGS/HMF MTJs Deliver Magnetic-State-Controlled Diode Behavior with Giant TMR
11:45 am	Dr. Chitra. M	779	Investigations on the room temperature acetone sensing property of Au decorated vertical graphene nanosheets
12:00 noon	Dr. Rajath Othayoth	249	AI based Point-of-Care Devices for Cancer Research
12:15 pm to 12:30 pm	Dr. Sanjeev Mani Yadav	405	Design Strategies for Low-Cost, Solution-Processed Quantum Dot Broadband Photodetectors
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: G7 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/caz-csnm-xhk>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. M. Saravanan	542	Impact of Dielectric Material Near Tunnel Junction on Source Extension Technique for Analog/RF Performance in Triple-Metal Gate-Stack III V TFET
11:15 am	Dr. Amretashis Sengupta	589	Twist assisted tuning of transport properties in 2D ZnS -2D ZnSe van der Waals heterostructures
11:30 am	Dr. Mugdha A. Kango	608	Novel Materials for Next-Generation Wearable Antenna Fabrication

11:45 am	Dr. Sagar Jawale	617	101 Frugal Medical Devices: Materials and Design Innovations for Affordable Healthcare
12:00 noon	Dr. Nagendra Kumar	672	Liquid Crystal Spatial Light Modulators for wavefront sensing and In-Situ monitoring of thin films
12:15 pm to 12:30 pm	Dr. Sudhir K. Keshri	703	Regioselective Boron Doping of Azacalixarenes for Narrowband Blue TADF OLED Emitters
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: H7 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/tfb-xrtj-ntu>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Sonali Das	733	Improving Photovoltaic Performance of CZTS Quantum dot Solar cell by Incorporating Reduced Graphene Oxide/ Multiwalled Carbon Nanotubes
11:15 am	Dr. N. Venkatesh Bharathi	777	Synthesis and Luminescence Investigation of Some Phosphor Materials by Hydrothermal Method for WLED application and its Device Fabrication
11:30 am	Dr. Jyoti Shakya	796	2D Materials based Electrochemical Transistors
11:45 am	Dr. Resmi P E	880	Development of a $\mu$ PAD for the point-of-care testing of serum glutamic oxaloacetic transaminase (SGOT)
12:00 noon	Dr. Karuna Kumari	919	Interfacial Engineering of ZnO Memristors via LSMO Insertion for Enhanced Resistive Switching Performance
12:15 pm to 12:30 pm	Dr. Neeta Ukirade	942	Recent Developments in Electrochemical Biosensors Based on Nanomaterials for Dopamine Detection: A Brief Overview
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: I7 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ujt-yfar-xgf>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Amjad Mohammed Hajam	969	Artificial Intelligence and Machine learning Analysis of Thrust Efficiency Factor of Solid Propellants for Rocket Applications
11:15 am	Dr. Rashi Nathawat	1066	Defect-Driven Charge Transport and Activation Energy Engineering in Modified $V_2O_5$ for High-Performance Gas Detection
11:30 am	Dr. Ramya S	1091	Microfluidic Systems for Point-of-Care Diagnostics: Design, Fabrication, and Device Integration
11:45 am	Dr. Parul Taneja	1337	Fabrication of Ultrathin Film of Carbon Nanotubes for Electrochemical Mass device to study the Interference effect of Metal Ions through Algorithmic Analysis

12:00 noon	Dr. Shakila Mahesh	1341	Development of Tongue Cleaner-Based pH and Glucose Biosensors for Oral Hygiene Assessment
12:15 pm to 12:30 pm	Mr. Ziyad Hassan Mousa Wushayli	1361	Modelling Simulation and Design of Smart Damping Cabins for Transportation Systems
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: J7 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ged-paxi-xch>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Minakshi Chakraborty Sen	115	Quantum Entanglement in Sequential Double Photoionization of Methyl Iodide: A Qudit and Qubits Perspective
11:15 am	Dr. Mukesh Chandra	258	Growth, Structure, and Magnetic Properties of YIG Thin Films on Silicon for Spintronic Applications
11:30 am	Dr. T. Uthayakumar	268	Implementation of all-optical Boolean logic operation via solid- and liquid- core photonic crystal fiber couplers
11:45 am	Dr. Bibekananda Das	274	Magnetoresistance Tuning in Ni via Magnetization Coupling with Single-Molecule Magnets
12:00 noon	Dr. Gaurav Kumar Shukla	326	Orbital Torque and Field-Free Magnetization Switching in a Light-Element-Based SOT Device
12:15 pm to 12:30 pm	Pankaj Kumar	418	Quantum Computing in Financial Compliance
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: K7 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/fkz-bcba-yfb>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Sakshi Nain	437	Single-Molecular Magnetism in Sandwiched Organometallic Complexes
11:15 am	Dr. Baban U. Rindhe	632	Materials for Information Technology
11:30 am	Dr. Sutirtha Kumar Guha	725	Materials Informatics: Data-Driven Approaches for Next-Generation Electronic and smart Devices
11:45 am	Prof. Somasree Bhadra	726	Artificial Intelligence and Machine Learning for Smart Materials and Device Optimization
12:00 noon	Dr. Abdus Salam Sarkar	1088	Monolayer 2D Dilute Magnets: Spintronics and Information Applications
12:15 pm to 12:30 pm	Dr. Sanju Rani	515	Manipulating charge recombination in TiO <sub>2</sub> through defect-induced spin polarization
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: L7 [Invited Faculty/ Scientist Speakers]: Online mode**

Link: <https://meet.google.com/iji-iynd-hdw>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr.Kanchan L.Pattebahadur	1152	Materials Driving from Semiconductor to Quantum Computing for the evolution of Information Technology
11:15 am	Dr. B. Veera Jyothi	1281	Quantum Materials – Superconductors, Topological Insulators, and Their Role in Quantum Computing
11:30 am	Dr. Amandeep Kaur	1312	AI-Driven Materials Informatics for Next-Generation Information Technology Systems: Towards Viksit Bharat 2047
11:45 am	Dr. K Thirumala Lakshmi	1307	Rain–Radome Interaction in Ground-Based Radar Systems: Functional Materials Interfaces in Climate-Resilient Radar Sensing
12:00 noon	Dr. Rajanishree M	1405	FoodPhoneix AI : OpenCV and Machine Learning based Food Waste Management System
12:15 pm to 12:30 pm	Dr. Shinjini Paul Choudhury	340	BIOMETHANATION IN THE CIRCULAR BIOECONOMY: FROM ORGANIC WASTES TO RENEWABLE METHANE
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: M7 [Invited Faculty/ Scientist Speakers]: Online mode**

Link: <https://meet.google.com/cxi-vipo-uap>

Date: 08.04.2026

Time: 11:00 AM to 12:30 PM

Time	Authors	Paper ID	Paper Title
11:00 am	Dr. Smriti Sharma	1301	Plant-Based Biopesticides: Bioassay and Molecular Docking Approaches
11:15 am	Dr. N K Sharma	1310	Impact of Material Science in Technology and Industry
11:30 am	Dr. Om Shanker Tiwari	1327	Metabolite-based Bio-inspired Materials for Environmental Remediation
11:45 am	Dr. V H Sangeetha	1342	Circular Bioeconomy Approaches for the Valorization of Underutilised Fruit Processing Wastes into Functional Biopolymers
12:00 noon	Dr. K P Suhasini	1359	New Pyranochromene-Based Propenones as antiproliferative agents : Design and Biological Assessment
12:15 pm to 12:30 pm	Dr. Prakash Kumar Sahoo	121	Synthesis and characterization of Schiff base transition metal complexes derived from 2,2-Dimethyl -1,3-diaminepropoane and Benzaldehyde
<b>12:30 pm to 01:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: A8 [Invited Faculty/ Scientist Speakers]: Online mode**

Link: <https://meet.google.com/oue-sgoq-hek>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. K. Aruna Prabha	199	A Comprehensive Review of Multi-Material Additive Manufacturing: Technologies, Materials, Challenges, and Applications
01:15 pm	Dr. Anita Verma	259	Green Sol-Gel Pathways for Environmentally Sustainable Nanomaterial Fabrication
01:30 pm	Dr. Tapas Mondal	290	Implementation of 3D Printed Novel Perturb Microwave Laminate Embedded with Identical Hexagonal Slots in Mesh Grid Fashion for Circularly Polarized Hexagonal Patch Antenna
01:45 pm	Dr. Bhupinder Kaur	317	Microstructural and Thermo-Physical Evaluation of Spontaneous Fracture in Automotive Rear Windshields: The Role of Carbonaceous Impurity Segregation
02:00 pm	Dr. M. Radhika	343	Synthesis and Characterisation of Zeolite Y Encapsulated Pyridine-M(II)-Amino acid Ternary Complexes
02:15 pm to 02:30 pm	Dr. Ankit Kumar	359	Rietveld refinement of calcium doped zirconia to study the effects of doping percentage on phase stabilization
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: B8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/jfr-bzpz-kgz>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Pravas Kumar Panigrahi	486	Morphological Evolution of Bismuth Sulfide Nanorods under Solvothermal Condition
01:15 pm	Dr Nidhi Dureja	1562	PARSLEY: A MYSTIC HERB
01:30 pm	Dr. Ashok Kumar	493	Interpretation of adsorption behavior of guar gum onto activated mesoporous bentonite surface from its aqueous solutions
01:45 pm	Dr. Suvankar Chakraborty	530	Tungsten oxide : Formation and impact on cleaning of W(110) surface
02:00 pm	Dr. Konica Sharma	544	A review on development of superhydrophobic coatings using green, sustainable materials and Techniques
02:15 pm to 02:30 pm	Dr. Biprajit Paul	576	Sustainable Synthesis of Organochalcogen Compounds with Pharmaceutical and Material Interest
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: C8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/xei-csoq-hcf>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
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01:00 pm	Dr. Shiram N Bhat	601	Enhanced Plated Through Hole Reliability in PPO Based PCBs for Space Electronic Packages
01:15 pm	Dr. Soumya Mukherjee	636	Evolution of CCTO based Ceramics by modified solid state process: Characterizations, Morphological features and its optical, dielectric properties
01:30 pm	Dr. Arnab Das	658	Influence of ZnO-Induced Matrix Brittleness and Interfacial Debonding on Hole Characteristics in MQL-Assisted Micro Drilling of CFRP
01:45 pm	Dr. Priti Nana Jadhav	878	Synthesis and characterization of MnO <sub>2</sub>
02:00 pm	Ks Vijay Sekar	889	Statistical Investigation of Cutting Temperature in Machining of Mg/Al <sub>2</sub> O <sub>3</sub> Nanocomposites
02:15 pm to 02:30 pm	Dr. Divyesh K Patel	894	Polymer supported metal catalyst for organic transformations and it's applications
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: D8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ihx-nguh-szb>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Priyanka Chaudhary	960	Oxidative Coupling of N-Nitrosoanilines with Substituted Allyl Alcohols under Rhodium (III) Catalysis
01:15 pm	Dr. Vaishali Rakesh Umrigar	999	Syntheses, Characterization and Applications of Nanomaterials as an encouraging substitutions to conventional manufacturing and separations
01:30 pm	Dr. P.V.S. Machi Raju	1037	Synthesis of MnO <sub>2</sub> - Ag Nano-Composites and their Thermal Stability
01:45 pm	Dr. Himadri Sahu	1043	Designing Robust Heterogeneous Catalysts for Environmental Applications
02:00 pm	Dr. Deivanathan R	1252	Tool path planning in end milling of Al alloy
02:15 pm to 02:30 pm	Mr. Rakesha Kakkranaya A	1284	INVESTIGATION ON THE PROPERTIES OF SILVER PARTICULATE FILMS DEPOSITED ON ELECTRON BEAM IRRADIATED, MODIFIED POLYMER SUBSTRATES
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: E8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/zuh-ctwq-dax>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Yuvaraj A. R.	1305	Phase Evolution and Growth Dynamics of Vanadia Thin-films
01:15 pm	Dr. S. Ponmudi	1321	Defect-Driven Ferromagnetism in Metal Oxides: Insights and Device Perspectives

01:30 pm	Dr. Anita Kumari	1387	Corrosion Inhibitor as Schiff base for Mild steel in 0.5 M H <sub>2</sub> SO <sub>4</sub> Medium: Electrochemical and Surface Morphological Studies
01:45 pm	Dr. Divya Khapra	128	Predictive Material Design: A Quantitative Approach to Engineering Future Devices
02:00 pm	Dr. Anuradha Banerjee	332	Types of Sensor materials and Their Suitability In Context of Machine Learning Algorithms And Precision Farming
02:15 pm to 02:30 pm	Dr. Naresh Kumar	350	AI-Enhanced Material Selection Framework: Integrating Machine Learning and Multi-Criteria Decision Analysis for Sustainable Engineering Design
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: F8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/sun-qwvt-ogm>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Manasi Roy	730	Design of a Multi-Stimuli-Responsive Pyridine–Pyrazole Metal–Organic Gel for Toxic Heavy Metal Removal from Wastewater
01:15 pm	Dr. Nilesh Pancholi	747	Industry-Driven Materials Design: Tailoring Mechanical Properties Using the Processing-Structure-Properties Framework
01:30 pm	Dr. J. Abanah Shirley	790	Material Selection and Design
01:45 pm	Dr. Sasanka Dalapati	851	Accessing Triplet State in Covalent Organic Frameworks for Natural Sunlight-driven Heterogeneous Photocatalysis
02:00 pm	Dr. Natraj Mishra	1057	Design of an Expert Heat Treatment Furnace for Plain Carbon Steels
02:15 pm to 02:30 pm	Dr. Ghanashyam Roy	1144	Hybrid Nature of Matter to Material
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: G8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/caz-csnm-xhk>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Uttam Paliwal	1210	A first-principles study of structural and electronic properties of strained monolayer HfS <sub>2</sub>
01:15 pm	Dr. Haripriya V	1240	AI driven approach for the Design of High-Performance Epoxy Composites
01:30 pm	Dr. Vijay S. Sapner	116	Graphene Based Nanomaterials for Electrochemical Applications
01:45 pm	Dr. Manoj Tripathi	120	Thermo-catalytic Conversion of Mustard Husk to Hydrogen Using Polyaniline–Nickel Nanocomposites

02:00 pm	Dr. Priyanka Aggarwal	142	Transition Metal Dichalcogenide Electrocatalysts for Seawater Electrolysis: Design Strategies, Performance, and Stability
02:15 pm to 02:30 pm	Dr. Narinder Kaur, Dr Barkha Rohtagi	159	Enhancing Measurement Fidelity in ZnO/In <sub>2</sub> S <sub>3</sub> Photoanodes for Photoelectrochemical Water Splitting via Physical-Layer Error Suppression
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: H8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/tfb-xrtj-ntu>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Amanpreet Kaur	166	Bimetallic CsZn coordination network as a redox-active platform for ultrahigh performance in energy storage applications
01:15 pm	Dr. S S Patil	203	Development of Material as a Source of Future Energy
01:30 pm	Dr. Monika	247	Enhanced Flow-Induced Power Generation from Cobalt Intercalated Graphene
01:45 pm	Dr. Rawdah Whba	310	Advancing Natural Rubber-Based Polymer Electrolytes: From Material Modification to Energy storage Applications
02:00 pm	Dr. Mamta Rani	382	Nanostructured Photoanodes and Hybrid Perovskites: Advancing Sustainable Photovoltaic Materials
02:15 pm to 02:30 pm	Dr. Aruna Veersamy	392	Enhancement of heat transfer in Closed Loop Pulsating Heat Pipe (CLPHP) utilizing reduced Graphene Oxide (rGO)
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: I8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ujt-yfar-xqf>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Divya Jyoti	590	Disordered Driven Electrical Transport in TiO <sub>2</sub> Nanowires for Dye-Sensitized Solar Cells
01:15 pm	Dr. Shwetharani R	598	Sustainable Electrocatalytic Green Hydrogen Production from TMDs based Materials
01:30 pm	Dr. Forkan E Aman	656	Mg-Cu Galvanic Coupling System: Hydrogen Evolution and Simultaneous Waste Water Treatment
01:45 pm	Dr. Ram Bhagat	679	Synthesis approach for Meso/microporous Carbon materials using Biomass and their application for Sustainable Electrochemical Energy Storage
02:00 pm	Dr. Debal Kanti Singha	732	Synthesis of Nanomaterials for Improved Renewable Energy Purpose
02:15 pm to 02:30 pm	Dr. Naveen Dwivedi	800	Magnetic Field-Driven Hydromagnetic Free Convection in a Vertically Heated Channel:

			Symmetric/Asymmetric Heating under Open and Short Circuit Conditions
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: J8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/ged-paxi-xch>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Sathya P	859	Numerical Investigation of a Lead Free and HTL free Cs <sub>2</sub> AgInCl <sub>6</sub> Double Perovskite Solar Cell Using SCAPS-1D
01:15 pm	Dr. Anushree Khandale	867	Tailoring Oxygen Vacancies and Ionic Transport in BaCe <sub>0.75</sub> Zr <sub>0.1</sub> X <sub>0.15</sub> O <sub>3-δ</sub> Perovskite Electrolytes through B-Site Doping
01:30 pm	Dr. D. Sengeni	869	Sustainable Functional Materials for Next-Generation Energy Conversion and Storage Devices
01:45 pm	Dr. Avirup Das	873	Tuning NASICON Fillers in PVA Matrix: A comparative study of Li <sub>1.3</sub> Al <sub>0.3</sub> Ti <sub>1.7</sub> (PO <sub>4</sub> ) <sub>3</sub> / Li <sub>1.3</sub> Al <sub>0.5</sub> Nb <sub>0.2</sub> Ti <sub>1.3</sub> (PO <sub>4</sub> ) <sub>3</sub> reinforced polymer composite
02:00 pm	Dr. Fatin Saiha Omar	910	Pore Modulation of Nickel Phosphate for Enhanced Supercapattery Performance
02:15 pm to 02:30 pm	Dr. Jagadish Chandra Mahato	912	Double transition metal MXenes as anode materials for high-capacity multivalent metal-ion batteries: A computational study
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: K8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/fkz-bcba-yfb>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Ashly P.C.	933	Vacancy Filling Driven Activation of Stable Pd-Sn Intermetallic Catalysts toward Efficient C-C Bond Cleavage in Ethanol Fuel cells
01:15 pm	Dr. Namrata Yaduvanshi	953	Rare-Earth Pnictides as Emerging Materials for Energy Applications: A First-Principles Investigation
01:30 pm	Dr. Tauseef Ahmed	1073	Analysis of SnS <sub>2</sub> /μc-Si thin-film solar cell performance using two-dimensional numerical simulation
01:45 pm	Dr. Alex Joseph	1083	A bifunctional BaM <sub>x</sub> Co <sub>1-x</sub> O <sub>3</sub> perovskite for Oxygen evolution reaction and Zinc air battery applications
02:00 pm	Dr. Gobinda G Khan	1085	Interface-Engineered Single-Atom Catalysts for High-Performance TiO <sub>2</sub> Nanorod Photoanodes in Solar Energy Conversion

02:15 pm to 02:30 pm	Dr. Prakriti Adhikary	1100	Developments of mechanical energy harvesters based on piezoelectric polymers and polymer composites
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: L8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/iji-iyuu-hdw>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. sushmita Chaudhari	1136	Next-Generation BaZrS <sub>3</sub> Chalcogenide Perovskites Absorbers for High-Efficiency Thin-Film Solar Cells
01:15 pm	Dr. Sureshkumar K	1150	In situ synthesis of rGO-SnO <sub>2</sub> composites using green and sustainable sugarcane juice for energy storage applications
01:30 pm	Dr. Varalakshmi N	1165	Surfactant-Induced Morphological Control of Nickel Manganese oxide Nanoparticles for Enhanced Supercapacitor Applications
01:45 pm	Dr. Suman Kushwaha	1168	Biomass-Derived Activated Carbon from Manilkara zapota Seeds as an Efficient and Sustainable Counter Electrode for DSSCs
02:00 pm	Dr. Bandana Gogoi	195	Magnetic nanomaterial: characteristic length, interaction energy effect and nanoscale dynamic behavior.
02:15 pm to 02:30 pm	Dr. K Manjunatha	1273	Tailoring Spinel NiFe <sub>2</sub> O <sub>4</sub> via Bismuth Doping for Room-Temperature Magnetic Memory, Advanced Supercapacitors, and Humidity Sensing Applications
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: M8 [Invited Faculty/ Scientist Speakers]: Online mode**

**Link:** <https://meet.google.com/cxi-vipo-uap>

Date: 08.04.2026

Time: 01:00 PM to 02:30 PM

Time	Authors	Paper ID	Paper Title
01:00 pm	Dr. Arpan Deyasi	346	A Comparative Analysis of Photonic Band Structure for Positive and Negative Refractive Index Materials
01:15 pm	Dr. Pritam Borker	1292	Nanomaterials for Clean Energy and Environmental Applications
01:30 pm	Dr. Kavya V.R.	1334	Materials Innovation for Net-Zero Energy: Advancing Durable Fuel Cell Architectures
01:45 pm	Dr. Ankit Mittal	135	Chalcone-Based Advanced Materials for Nonlinear Optical and Photonic Applications
02:00 pm	Dr. Pushpendra Kumar	284	Ultrafast photoconductivity dynamics in 2D layered perovskites with alternating cations in the interlayer space
02:15 pm to 02:30 pm	Dr. Papiya Dhara	296	Optical Fibre Surface Modification with ZnO Nanoparticles for SPR based Biosensing
<b>02:30 pm to 03:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: A9 [Student Speakers]: Online mode**Link: <https://meet.google.com/oue-sgog-hek>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Aditya Kumar Sahu	205	Structural, Dielectric, Electrical, and Ferroelectric Properties of $\text{Li}_2\text{Pb}_2\text{Sm}_2\text{W}_2\text{Ti}_4\text{V}_4\text{O}_{30}$ Multiferroic Ceramic
03:10 pm	Mr. Chetan	210	Comprehensive Evaluation of Growth, structural, optical and thermal analysis of Benzimidazolium succinate single crystal
03:20 pm	Ms. Jyoti	230	Investigation on the synthesis, growth, thermal and optical behavior of sodium sulfanilate dihydrate Single Crystal: A potential candidate for nonlinear optical applications
03:30 pm	Ms. Ashwini V	363	Structural and Optical Insights into Carbon Dots Derived from <i>Cocos nucifera</i> Root via Green Hydrothermal Synthesis
03:40 pm	Hoa Thi-Thu-Nguyen	413	Characterizations of young jackfruit peel water extract as an eco-friendly corrosion inhibitor for carbon steel in an aggressively acidic solution containing 0.6 M NaCl
03:50 pm	Thanh-Nha Tran	414	Chemical investigation of starfruit flowers ( <i>Averrhoa carambola</i> L.): Isolation, structural determination, and suggested applications
04:00 pm	Kim-Long Duong-Ngo	415	Investigating the corrosion inhibition of starfruit extract ( <i>Averrhoa carambola</i> L.) for carbon steel in hydrochloride acid solution
04:10 pm	Ms. C.R. Eldin Jeeva	506	Unsteady Ferro-Nanofluid Flow with Variable Concentration Over an Inclined Riga Plate under MHD, Radiation, Chemical Reaction, and Bioconvection Embedded in a Porous medium
04:20 pm to 04:30 pm	Dr. Muthusamy K	610	Effect of $\text{Al}_2\text{O}_3$ Content on the Microstructure and Mechanical Behavior of Magnesium Matrix Composites
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: B9 [Student Speakers]: Online mode**Link: <https://meet.google.com/jfr-bzpz-kgz>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Mr. Bhushan Jivan Vispute	667	Characterization Methods for PVD Coatings Used in Machining: A Practical Review for Researchers
03:10 pm	Mr. Sankara Narayanan A	743	INVESTIGATION OF MECHANICAL PROPERTIES OF ALUMINUM ALLOY WITH NANO FILLERS USING FSW
03:20 pm	Mr. Chandra Bhushan	782	Effect of temperature and relative saturation on dispersion in paper-based assays

03:30 pm	Mr. Revati Nandan	802	Enhancement of the electrocaloric effect and energy storage potential at ambient temperature in sol-gel derived BaTiO <sub>3</sub> -based ceramics, with a focus on eco-friendly practices
03:40 pm	Mr. Dheeraj Kumar Das	941	Investigation of Pressure Distribution in the Rotor-Stator Cavity Using Computational Fluid Dynamics and Machine Learning
03:50 pm	Dr. Rimpi Chakravarty	1063	Fabrication and characterization of flexible PVDF-BaFe <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> composite films for advanced device applications
04:00 pm	Ms. Swetha Hiremath	1149	Topological Data Analysis for understanding the Cyclic Structures of Polycyclic Aromatic Hydrocarbons.
04:10 pm	Mr. Shubhra Vishwas	1160	Synergistic Enhancement of Dry Sliding Tribological Performance in Hybrid B <sub>4</sub> C–SiC Filled CFRP Composites
04:20 pm to 04:30 pm	Mr. Diptiranjana Panda	1221	Performance Enhancement of Inconel 718 Machining Using Vibration Assisted Powder Mixed EDM
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: C9 [Student Speakers]: Online mode**

Link: <https://meet.google.com/xei-csoq-hcf>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Ms. Ninu Praseetha N.S	1344	STRENGTH CHARACTERIZATION AND PREDICTIVE MODELING OF STEEL FIBER REINFORCED CONCRETE
03:10 pm	Bharat Kumar Talluri	1390	Machine Learning-Based Prediction of Tribological Behavior in SiC-Reinforced Aluminum Matrix Composites
03:20 pm	Mr. Ganesh Paudel	184	Study on the Synthesis and Characterization of ZnO and Azadirachta Leaf Extract Added ZnO Nanoparticles for Gas Sensor Application
03:30 pm	Mr. Zala Kanaksinh Mansing	206	Enhanced Corrosion Resistance of Motorcycle Rear Sprockets by Salt Bath Nitrocarburizing and Post Oxidation
03:40 pm	Mr. K Prabhakar	924	EPB TBM Tunnelling - Methods to control Air Loss during Hyperbaric Cutterhead Intervention in Soft Ground (Silty Geology)
03:50 pm	Ms. Gundam Manisha	968	Experimental Study on Soil Bricks Using Hydrated lime, M-sand and Paper Pulp
04:00 pm	Ms. Sakshi Kumari Roy	991	Advanced Hydrogel Networks for Selective Microplastic Removal from Water
04:10 pm	Wanigarathne M.S.	1061	Latitude Dependency on Color Variations in Natural Gemstones
04:20 pm to 04:30 pm	Mr. Hemanth Kumar D	1078	Magnetocaloric Materials; An Overview
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: D9 [Student Speakers]: Online mode**

Link: <https://meet.google.com/ihx-nguh-szb>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Ms. Thembelihle Mguni, Dr Kudzai Hamish Ruzvidzo	1096	Sustainable design framework for incorporating recycled HDPE in SN4 geo pipes under SADC ( Southern African Development Community) environmental conditions
03:10 pm	K. Ravi Teja	1186	Replacement of Cement with Fly Ash and GGBS
03:20 pm	Ms. Archana S	1204	SUSTAINABLE SOL-GEL ROUTE FOR THE PREPARATION OF COPPER(II) OXIDE NANOPARTICLES.
03:30 pm	Mr. Rohit Kumar Barnwal, Ms. Ayushi Singh Rajawat, Ms. Devanta Kumari	1235	Exploring Schiff Base Zn (II) Complexes as Sustainable Blue -Light Emitters
03:40 pm	Ms. Selin Öztürk	1239	Influence of Monolayer Packaging Films on Lipid Oxidation and Moisture Stability of Nitrogen-Flushed Extruded Snacks
03:50 pm	Ms. Noa Eunice Escárcega Ochoa, Mr. Priscy Alfredo Luque Morales	1267	Correlation between Band Gap and photocatalytic activity: UV-Vis study using the Tauc and Kubelka-Munk methods in green synthesis of nanomaterials
04:00 pm	Mr. Saveen	1276	Fabrication and testing of natural fiber composite
04:10 pm	Salai Kavinvan ST, Vasanth V, Adhavan Saravanan	1336	Study the Time-Dependent Drying Shrinkage of Natural Fibre Reinforced Concrete Based on Internal Relative Humidity
04:20 pm to 04:30 pm	Mr. Chintak Kamalesh Parashar	1455	Electrohydrodynamic Mixing in Pressure-Driven Microchannel Flows
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

Technical Session: E9 [Student Speakers]: Online mode

Link: <https://meet.google.com/zuh-ctwq-dax>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Mr. A. Arun Kumar	1474	Fabrication of AA7075 based hybrid metal matrix composites for improved tribological properties
03:10 pm	Mr. Majeed A. Shaheed	482	Synthesis and characterisation of Prunus Domestica Gums (IPDG) and Humic Acid-based hydrogel for Agricultural Applications
03:20 pm	Charntalle T Machokoto, Dr. Kudzai Hamish Ruzvidzo	1112	A Review of Chitosan Hydrogel Applications for Eco-Efficient Farming and Resource Management
03:30 pm	Sakshi Shukla	615	Study on Polyurethane(PU): Insights and challenges
03:40 pm	Mr. Tharun K	1487	Perception analysis of drone use among construction stakeholders in India
03:50 pm	Ms. Shobha Nair	188	Economic and Environmental Assessment of Conventional and Green Hydrogen based Steelmaking Routes in India: A Cost-Benefit Analysis

04:00 pm	Mr. Dinesh Chandola	245	Nitrogen-Doped Biochar and g-CN/Biochar Composites for PMS-Based Trimethoprim Degradation
04:10 pm	Mr. Bence Veres	265	Persulfate-Assisted Heterogeneous Photocatalysis for Persistent Contaminants Removal from Water
04:20 pm to 04:30 pm	Mr. Nihal Basheer M C	323	Mechanical and Thermogravimetric analysis of Glass Fiber Reinforced Bamboo Mat Composites for Eco-friendly Construction
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: F9 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/sun-qwvt-ogm>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Dr. Veena Kumari	336	Impact of Inlet Duct Design on the Performance of Cyclone Separators: A Review
03:10 pm	Mr. Pritam Pain	353	Comparison of Different Dielectric Medium for Sustainable $\mu$ -EDM Process on Monel 400
03:20 pm	Km Yukti Sharma	372	Effect of Sugarcane Bagasse Ash and Hybrid Steel & Glass Fibers on the Mechanical Properties of Self-Compacting Concrete
03:30 pm	Mr. Nitish Bhatt	377	Eco-friendly bio based adhesive from maleic anhydride and glucose for plywood
03:40 pm	Ms. Akanksha Krushnat Banugade	468	"Opuntia spp. based Circular Bioeconomy: A Sustainable Pathway toward Environmental Resilience"
03:50 pm	Ms. Camey Monica Furtado	536	Tracing Wastewater-Derived Pollution Using Sediment-Bound Triclosan and Methyl-Triclosan in a Dynamic Estuarine and Coastal Region of Southwest India
04:00 pm	Ms. Heena Peethambaran	570	Sustainable Photocatalytic Treatment of Industrial Wastewater with Green ZnTiO <sub>3</sub> Nanoparticles under Solar/UV Light for Agricultural Reuse
04:10 pm	Ms. Payal Das	734	Life Cycle Assessment of Spirulina-Mediated Microplastic Bioremediation in Aquatic Environments
04:20 pm to 04:30 pm	Mr. Tarun Singh Nirwal	769	Impact of Air Pollution on Climate and Atmospheric process over Gangetic plain
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: G9 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/caz-csnm-xhk>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Ms. Ravneet Kaur	879	Biorefining Lignocellulosic Waste: Biological Routes to Advanced Biofuels

03:10 pm	Dr. Triparna Chakraborty	890	Sandwich PVA-Chitosan-Cellulose Hydrogel-Nanofiber for Oil-Water Emulsion Separation
03:20 pm	Ms. Hemalatha N P	1082	Cissus Quadrangularis as an Effective Adsorbent for the Purification of Water by Removing Common Dyes of Industrial Use
03:30 pm	Ms. Deepti Kushwaha	1135	Recent Advances in Co-Sensitized Natural and Synthetic Dye-Sensitized Solar Cells: A Critical Review
03:40 pm	Mr. Subhajit Das	1141	Sugarcane waste into a value-added material: Insights from the biocarrier for accelerating aerobic granulation
03:50 pm	Mr. Niladri Sarkar	1164	Unveiling the antibiofilm activity of two indigenous plant extracts against an acute nosocomial pathogen
04:00 pm	Ms. Poonia Poonam Prithvi Singh	1173	From Battery Waste to Smart Textiles: Green Synthesis of Graphene and Carbon Nanoparticles for Sustainable Materials Innovation
04:10 pm	Ms. Vijayalakshmi R	1347	IoT-Enabled Smart Cold Chain Inventory Model for Deteriorating Items with Partial Replacement and Non-Zero Replacement Interval under Carbon Tax Policy in a Fuzzy Environment
04:20 pm to 04:30 pm	Susant Mohapatra	1377	Development of sustainable adsorbent for cationic dye removal: waste valorization and environmental remediation
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: H9 [Student Speakers]: Online mode**

Link: <https://meet.google.com/tfb-xrtj-ntu>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Mr. Devat Devasibhai Chhaiya	227	Influence of Ambient and Operational Parameters on Hot-air Drying of Fruits and Vegetables in Tray Dryer
03:10 pm	Ms. Poojitha V	700	Advanced Microbial Technologies (AMTs) for the Sustainable Bioremediation of Coal Mining Wastes
03:20 pm	Ms. A.R.Archana, Ms. R.Ilakiya, Ms. Sri Nidhi M V, Mr. Khavin Noel	728	Experimental Investigation of a Low-Cost Geo-Base Isolation System Using Construction–Demolition–Tyre Mixtures
03:30 pm	Ms. Safya Asin B	735	Magnetically Recoverable ZnO-Goethite Nanocomposite for UV-Visible Photocatalytic Wastewater Treatment
03:40 pm	Mr. Anubhav Bharti	765	Integrating AI for Vegetation Suitability Analysis and Economic Plantation on Barren Land in Delhi-NCR
03:50 pm	Ms. Aleakya Harsha Verdhiny K, Ms. Zainab F	792	Synthesis and Evaluation of ZnO–CuFe <sub>2</sub> O <sub>4</sub> Nanocomposites with Synergistic Photocatalytic Activity and Magnetic Reusability for Wastewater Treatment
04:00 pm	Ms. Umme Kulsum	829	Light-Harvesting CF-Integrated Aloe Vera-Derived Graphene Composite for NADPH Photo-Regeneration and Green Organic Biginelli End Products

04:10 pm	Ms. Shambhavee	832	Photocatalytic/Bio-catalytic Coupled Photoreactor for Asymmetric Reduction of Acetophenones under Solar Light
04:20 pm to 04:30 pm	Ms. Shiwangi	834	Harnessing Diamino anthraquinone-Modified Biopolymer-Derived Activated Graphene for Solar-Driven Rhodium-Assisted Enzymatic CO <sub>2</sub> Fixation to C1 fuel
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: I9 [Student Speakers]: Online mode**

Link: <https://meet.google.com/ujt-yfar-xqf>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Ms. Ritika Pandey	875	Epoxy Resins: Recent Advances, Challenges and Future Perspectives
03:10 pm	S. Sreekanth	988	Photocatalytic Concrete For Sustainable Urban Applications
03:20 pm	Ms. L. Priyadharshini	1133	AI & IOT enabled smart distribution transformer
03:30 pm	A V Jai Surya	1223	Rethinking Health: Inclusive Micro-Interventions in Bhubaneswar's Informal Settlements
03:40 pm	Mr. Amiya Ojha	1297	Encapsulation-Based Self-Healing Concrete
03:50 pm	P. Selva Kathir	1330	Assessing Carbon Neutrality in Urban India: A Multi-Criteria Decision Framework Using HFS-VIKOR and Fuzzy-TOPSIS
04:00 pm	SARAN R	1369	EcoBinX: Smart AI Dustbin that Sorts, Compresses and Recycles Waste Automatically using Machine Learning and IoT
04:10 pm	Leela	1378	Smart and Sustainable Production Methods for Green Materials and Resource-Efficient Construction
04:20 pm to 04:30 pm	Anuj	1398	Role of environment toxicant
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: J9 [Student Speakers]: Online mode**

Link: <https://meet.google.com/ged-paxi-xch>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Mr. Atul Yadav	1446	Assessment of Water Quality Index Development of Rapti River at Domingarh and Rajghat, Gorakhpur
03:10 pm	Ms. Narmada	759	Polyvinyl Alcohol (PVA) Based Strippable Coating Materials for Surface Decontamination of Hazardous Materials
03:20 pm	Mr. Saurabh Kumar	1232	Formulation of Equation of State for the Analysis of Thermophysical Behaviour of Nanomaterials
03:30 pm	Dr. Jyoti Rani, Deepak kumar	1366	Biomass-Based Carbon Dots as Sustainable Photocatalysts for Dye Degradation in Wastewater

03:40 pm	Mr. Saradindu Mukherjee	488	Retrospective Analysis of Tunnel Squeezing - A Case Study of Tunnel No 10 along Sivok - Rangpo Railway Project (SRRP), West Bengal, India
03:50 pm	Md.Main Uddin	1389	Molecular Dynamics Study of Radiation Damage Effects on Mechanical Properties of CoCrFeMnNi High-Entropy Alloy
04:00 pm	Dr. Hana Khan	651	Mixed-Halide Perovskite-2D Chalcogenide Heterostructures for Solar-Driven Hydrogen Generation
04:10 pm	Ms. Swagata Bankura	691	Moth-Eye-Inspired Plasmonics Unlock Near-Infrared Light Harvesting in Lead-Free Double Perovskite Solar Cells
04:20 pm to 04:30 pm	Dr. Monika Dubey	745	Reusable, Magnetic Titanium Nanocomposite for Photocatalytic Removal of Organic Water Pollutants: Kinetics, Machine Learning insights
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: K9 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/fkz-bcba-yfb>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Ms. Ranjita Sahoo	776	Quantifying the Multifaceted Influence of HTLs on the Photovoltaic Performance of Inorganic Cs <sub>2</sub> TiBr <sub>6</sub> Solar Cells: An OghmaNano Numerical Investigation
03:10 pm	Ar. Kalpana	1248	Embodied Energy Assessment and Carbon Emission of Precast Concrete Residential Construction: A Case Study of EWS Housing, Dwarka, New Delhi
03:20 pm	Mr. Mithun R Gowda	754	PERFORMANCE ANALYSIS OF LIME AND GGBS BASED MORTAR: A CRITICAL REVIEW
03:30 pm	Ms. Jahnvi Shrivastava	814	Perovskite-Silicon Tandem Solar Cells: A Path to High Efficiency
03:40 pm	Mr. Krishnakanth Chithari	1467	Interface-Driven Enhancement in UV Photodetectors Using TiO <sub>2</sub> -MXene-NLC Cascading Strategy
03:50 pm	Ms. Sangeeta Das	297	A Simple Approach of Optical Fiber-Based Sensor for Liquid Turbidity Measurement
04:00 pm	Mr. Sushilkumar Nagnath Kamble	623	Fabrication and System Integration of an Emergency Descent Device for High-Rise Structures
04:10 pm	Ms. Sreedhar Gari Saikrupa	669	Effect of high-k chromium oxide (Cr <sub>2</sub> O <sub>3</sub> ) interface layer on the structural and electrical properties of Au/Cr <sub>2</sub> O <sub>3</sub> /un-InP metal/interface layer/semiconductor (MIS) Schottky diode
04:20 pm to 04:30 pm	Mr. D. Surya Reddy	896	Electrical properties of identically fabricated Au/Nd <sub>2</sub> O <sub>3</sub> /n-GaN MIS-type Schottky junctions
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: L9 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/ijj-iyuu-hdw>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Ms. A.Usha Rani	898	Electrical and interface properties of Au/ZnPc/InP/In photodiode at various illumination wavelengths
03:10 pm	Mr. K Ramesh	932	Mass Fabrication and Qualification of Gaseous Particle Detectors for Muon Telescope
03:20 pm	Ms. K S Suraksha Jain	903	Design and Finite Element Analysis of modified patient lift for locomotor parkinsonism rehabilitation
03:30 pm	Ms. Prajukti Debnath	1374	Wearable Health Devices Integration with LLM-Based Food Safety Systems for Dynamic, Biofeedback-Driven Dietary Recommendations
03:40 pm	Mr. Mahesh Kumar	1456	ADVANCED STRUCTURAL HEALTH MONITORING FOR RAILWAY BRIDGE ASSESSMENT AND FAULT DETECTION USING SOFT COMPUTING TECHNIQUES
03:50 pm	Mr. Vishesh Kumar Gangwar	389	Machine Learning enabled Prediction and Mechanistic Interpretation of Nanoparticle Toxicity
04:00 pm	Ms. Gauri Arun Varade	1034	Hybrid CNN-LSTM Architecture with Adaptive Kalman Filtering for Enhanced Underwater Acoustic Vector Sensor Signal Processing
04:10 pm	Ms. Arkadu Swapna, J. Thejesh, Perugu Teja, M. Thilak	185	A QUANTUM GENERATIVE MODEL FOR MULTI-DIMENSIONAL TIME-SERIES TO ANALYZE FINANCIAL DATA
04:20 pm to 04:30 pm	Ms. S. Kusuma, Ms. N. Radhika	1044	Effect of Annealing Temperature on the Electrical characteristics of Cu/p-Si Schottky diodes
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: M9 [Student Speakers]: Online mode**

Link: <https://meet.google.com/cxi-vipo-uap>

Date: 08.04.2026

Time: 03:00 PM to 04:30 PM

Time	Authors	Paper ID	Paper Title
03:00 pm	Mr. M. Likhithsairajanikanth, Ms. M. Reddimaheswari	1045	Electrical and current transport properties of Cu/p-Si Schottky contacts
03:10 pm	Mr. Girija Shankar Dixit	253	Engineering a Bioinspired Jute Based Superhydrophobic Wire
03:20 pm	Mr. José Alejandro Vilegas Fuentes	419	Sustainable Synthesis of ZnO Semiconductor Nanoparticles: Influence of Particle Size on the Removal of Persistent Organic Dyes from Wastewater
03:30 pm	Ms. Priti Kumari	543	Green Synthesis, Structural Elucidation and Antimicrobial Evaluation of Co(II) Complexes with N and O Potential Donor Ligands
03:40 pm	Mr. Pattan Jabbar Khan	697	The Impact of Film Thickness on the Antibacterial Properties of Nanostructured Copper Nitride Thin Films
03:50 pm	Mr. Prabhat Singh	701	Highly Sensitive Fluorescent Probe for Ferric Ion Detection in Aqueous Media Based on Quercetin-Gemini Surfactant Complexes
04:00 pm	Ms. Ashna Gupta	770	Biochar-Derived KS-2 as an Efficient and Recyclable Heterogeneous Catalyst for One-Pot Multicomponent Reactions under Green Conditions

04:10 pm	Mr. Ashutosh Kumar	871	RSM-based optimization of surface hardness, yield strength and wear rate of friction stir surface processed aluminium matrix composites
04:20 pm to 04:30 pm	Mr. Muhammad Bilal Ahmad	1013	Effective iodine capture using luminescent ionic liquid crystals made from Gemini surfactant and L-tyrosine
<b>04:30 pm to 05:00 pm</b>	<b>Break for 30 minutes</b>		

**Technical Session: A10 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/oue-sgoq-hek>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Ms. Kalyani Lohar	1218	Comparative Microstructure, Texture, and Property Anisotropy of As Deposited and Heat-Treated DMLS Inconel 718
05:10 pm	Mr. Chitta Ranjan Sethi	1226	Controlled Surface Engineering of AA6062 Aluminum via Reverse Polarity Electrical Discharge Coating
05:20 pm	Mr. Chitta Ranjan Sethi	1227	Electrical Discharge Synthesized hBN–Cu Solid Lubricant Coating on Aluminum 6062
05:30 pm	Ms. Deepti Sharma Dullu	1237	Synthesis and Characterization of Guanidinium Sulfamate (GS) Single Crystals: A Sustainable Organic Ionic Platform for Integrated Photonics and Photocatalysis
05:40 pm	Mr. Ramakrishna Yarlagadda	1386	A Gradient-Adaptive CSC-Based Pansharpener Method for Enhanced Spatial and Spectral Preservation
05:50 pm	Mr. Jethva Lakhankumar karashanbhai	208	Multi-Response Optimization of CNC Turning Parameters for IS319 Grade I Free Cutting Brass Using Hybrid Taguchi-Grey Relational Analysis
06:00 pm	Ms. Pratiksha Gaikwad	1435	Hydrothermally Derived Cu-Doped MgO@g-C3N4 Nanocomposites: A Promising Platform for Band Gap Modulation and Visible-Light Applications
06:10 pm	Mr. Virender Singh	1055	High-Performance All-Inorganic Tin-Based Perovskite Solar Cell with Engineered Transport Layers: A Simulation Study
06:20 pm to 06:30 pm	Ms. Puja Kumari	1222	Thermodynamic Behaviour of Na–In Melts at 773 K

**Technical Session: B10 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/jfr-bzpz-kgz>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Mr. Gurtej Singh Kalsey	1289	Mechanical Evaluation of Patient-Specific Bone Plates for Tibial and Femoral Fractures developed using L-PBF

05:10 pm	Ms. Kumkum Raj	278	Wrist Mounted Flexible Antenna for Health Monitoring
05:20 pm	Mr. D. Ramakrishna	383	A Dual-Rectangular Gold-Coated D-Shaped Photonic Crystal Fiber SPR Sensor for Refractive Index Sensing
05:30 pm	Dr. Anupama Sahu	366	Comparison of activated carbon performance as lithium-ion battery anode derived from stem, leaf and flower of <i>Calotropis gigantea</i>
05:40 pm	Ms. Praveena Shandilya	396	Energy Monitoring of Solar Cells Using IoT for Sustainable Applications
05:50 pm	Ms. Nitasha	684	Biomass-Derived Activated Carbon from Pinecone for Supercapacitor Application
06:00 pm	Ms. Nidhi Jast	687	Advancements in Solar Materials: Paving the Way toward a Renewable and Sustainable Future
06:10 pm	Dr. Sonika	724	Hierarchical N and S-enriched porous carbon produced from sal wood biomass for improved supercapacitor electrode materials
06:20 pm to 06:30 pm	Ms. Spurthi B S	736	Time-Optimized Hydrothermal Synthesis of Nanostructured InVO <sub>4</sub> for Electrochemical Energy Storage

**Technical Session: C10 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/xei-csoq-hcf>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Mr. Abin M Sunny	789	Sodium ion conduction in PEO-PEG based solid polymer electrolyte systems
05:10 pm	Mr. Jasil T K	827	The Density Functional Theory Study of Monolayer PtS <sub>2</sub> for Electrode Applications of Supercapacitors
05:20 pm	Mr. Soumyasri Nikhilesh Mahapatra	936	Facile Room-Temperature Synthesis of S/Se Nanoparticles decorated Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene as Cathode for High-Performance Li-S Batteries
05:30 pm	Melis Irmak Aydın	1079	Ionic conductivity of gas diffusion layers or electrodes of PEM fuel cells
05:40 pm	Merve Nida Dursunoğlu	1094	Fluorine doping of materials for PEM fuel cells
05:50 pm	Mr. Avrajyoti Biswas	1207	Performance of a triboelectric nanogenerator based on BaTiO <sub>3</sub> doped P(VDF-HFP) composite film
06:00 pm	Ms. Kaushiki Sinha	1234	Numerical Analysis of Performance Enhancement Techniques in Lead-Free Perovskite Solar Cells
06:10 pm	Ms. Aiswarya P	1246	Development of Low-cost Symmetric Supercapacitors: Utilizing Recycled Ni-Mn Oxides from Battery Waste in a GO Framework
06:20 pm to 06:30 pm	Ms. Parul	1003	CoSb <sub>2</sub> O <sub>6</sub> -rGO Composite-based Supercapacitor electrode for enhanced charge storage performance

**Technical Session: D10 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/ihx-nguh-szb>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Ms. SMPMK Sanganayaka	1024	Advancing Photovoltaic Performance In Dye-Sensitized Solar Cells Through Newly Developed Polymer-Free Quasi-Solid-Electrolyte
05:10 pm	Mr. Davaluri Rajesh	1314	Review on Bio-Diesel Research Carried out in India upto 2025
05:20 pm	Ms. Priyanka Kumari	458	Next-Generation Ultrafast Broadband Photodetectors via Band-Engineered Heterostructure Engineering
05:30 pm	Ms. Chandni Kumari	707	Structural and Optical behaviors of Dy <sup>3+</sup> activated BaNb <sub>2</sub> O <sub>6</sub> Phosphors for White LED Applications
05:40 pm	Ms. Nidhya Vijay V	909	Performance Analysis of WDM System based on Modulation Formats
05:50 pm	Mr. Tanish Kumar	246	Bridging Material Properties and Device Functionality: Recent Advances in Electronic and Optoelectronic Materials for Next Generation Devices
06:00 pm	Ms. Aishanya Singh	680	Twin-Core Photonic Crystal Fiber Biosensor for Precise Identification of SARS-CoV-2 Spike Protein
06:10 pm	Mr. Sujay Kanna V	1424	Smart Wireless Battery Management System for Electric Vehicles
06:20 pm to 06:30 pm	Mr. Purusothaman S	1436	Advanced Tactical Tracker for Military Personnel Monitoring Based on LoRa Communication

**Technical Session: E10 [Student Speakers]: Online mode**

Link: <https://meet.google.com/zuh-ctwq-dax>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Mr. Kuldeep Singh	283	Modeling and Optimization of Nanomaterials for Improved Solar Cell Structure
05:10 pm	Ms. Anuradha Yadav	788	First-Principles Investigation of W-Substituted La <sub>2</sub> Mo <sub>2</sub> O <sub>9</sub> for SOFC Applications
05:20 pm	Mr. Kalaiselvan LS	681	Mechanical Performance of Reactive Powder Concrete Reinforced with Hybrid Steel Fibers
05:30 pm	Mr. Himanshu Prajapati	1128	The Influence of Interfacial Fracture Toughness on the Fatigue Life of Natural Fiber Reinforced Polymer Composites: A Numerical Investigation
05:40 pm	Ms. Sarita Mishra	1225	Enhanced Machinability of AISI 6150 Steel Using Micro Textured Cutting Tools under MQL
05:50 pm	Prithvi R	1360	Towards Sustainable Concrete: SVR-Based Prediction of Bottom Ash Concrete Strength
06:00 pm	Mr. Yash Panjabrao Chopade	1113	Investigation Of Mechanical and Durability Properties of Concrete with Hybrid Polypropylene Fiber (PPF): A Review
06:10 pm	Mr. Prajwal Anil Dekate	1138	Seismic Performance Evaluation of Waffle, Flat and Conventional RCC Slab Systems in High-Rise Buildings.
06:20 pm to 06:30 pm	Shuaib Al Rashid	1388	Nanomechanical Characterization of FeNiCoCrAl High-Entropy Alloy: A Molecular Dynamics Nanoindentation Study

**Technical Session: F10 [Student Speakers]: Online mode**Link: <https://meet.google.com/sun-qwvt-ogm>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Ms. Roshni Pattanayak	428	Transforming Flower Waste Into Sustainable Biopolymer Composites or Feminine Hygiene Applications
05:10 pm	Dr. Shekhar Dhalpe	449	Bioelectronic Medicine as an Alternative to Biologics: A New Paradigm in Precision Therapy
05:20 pm	Ms. Fariha Mushahid	572	Physicochemical Evaluation and Preliminary Biological Performance of a Chitosan–Fluorohydroxyapatite–Camellia sinensis Ternary Nanocomposite for Bone Tissue Engineering
05:30 pm	Mr. Amale Sagar Ramdas	693	Design, Synthesis and In-Vitro Antidiabetic, Anti Tuberculosis Evaluation of Triazole-Linked Benzimidazole-Based Nitrogen and Oxygen Containing Heterocycles
05:40 pm	Ms. Deepika Yadav	766	Role of PVP-Oxime Functionalization in Biogenically Synthesized TiO <sub>2</sub> Nanocomposites for Anticancer Therapy
05:50 pm	Ms. Sweety Singh	795	Insight Towards: Advanced Biomedical Material for Specialized Scalp Signal Acquisition Electrode for Cerebral Electrophysiological Assessment of Neural Circuitry
06:00 pm	Dr. Suman Pal	876	Virus-Inspired Multilayered mRNA Delivery Vehicle for Therapeutic Applications
06:10 pm	Ms. Suvetha S	891	Antibiofilm and antivirulence potential of bioengineered silver-hydroxyapatite nanocomposites against MDR <i>Proteus mirabilis</i>
06:20 pm to 06:30 pm	Sri Meenakshi S	892	Anticancer efficacy of biosynthesized Ag-CuO NPs against HT-29 colon cancer cell line

**Technical Session: G10 [Student Speakers]: Online mode**Link: <https://meet.google.com/caz-csnm-xhk>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Mr. P Naveen	1187	Programming Silver Nanoparticle Functionality through Organ-Specific Seed and Pod Extracts of <i>Amomum aromaticum</i>
05:10 pm	Mr. Nitish Kumar Choudhary	1287	Effect of seed of <i>Abrus precatorius</i> induced changes in reproductive process in mice ( <i>Mus-musculus</i> ).
05:20 pm	Ms. Shreya Priya	1291	Recombinant Human Collagen-Based Stimuli-Responsive Biomaterials for Precision Therapeutic Delivery in Atherosclerosis: Emerging Perspectives
05:30 pm	Ms. Latika Mishra	1384	Antibacterial properties of biosynthesized TiO <sub>2</sub> nanoparticles

05:40 pm	Mr. P. Kamalesh	339	DEVELOPMENT AND CHARACTERIZATION OF GARLIC PEEL BASED HYDROGEL FILM FOR WOUND HEALING APPLICATIONS
05:50 pm	Ms. Varshitha B R	581	Synthesis of bioartificial hydrogel matrices that contain MMP-sensitive cross-links, cell adhesive ligands, and the growth factor VEGF for regeneration of bone
06:00 pm	Ms. Aradhana Mishra	704	Enhanced Visible-Light SPR Biosensor for Trace-Level Detection of Water-Borne Microbial Contaminants
06:10 pm	Ms. Renu	729	SPR Biosensor with Cu–Dielectric–Graphene Hybrid Structure for Enhanced HIV DNA Detection
06:20 pm to 06:30 pm	Mr. Saumya Ranjan Pradhan	1465	Silica particle-decorated surfaces of nematic liquid crystal droplets for biomolecule detection

**Technical Session: H10 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/tfb-xrtj-ntu>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Ms. Parul Soni	225	Synthesis and Characterisation of Ni and Zn-Incorporated Manganese Based Mixed Metal Oxides
05:10 pm	Ms. Aslin Sharmi. T	226	Nanoparticle based Surface Modification of Titanium Implants to enhance Biological Performance
05:20 pm	Ms. Kiran Kaushik, Dr. Anita Singh	238	Polyherbal genesis of Silver Nanoparticles from fruits of Amalaki, Bibhitaki, and Haritaki and Their Antibacterial Activity
05:30 pm	Ms. Vaishali Arora	401	Mechanistic Evaluation of Phosphate Release Kinetics from Nano-Hydroxyapatite in vitro Aqueous Media
05:40 pm	Ms. Shilpa Joy	412	EFFICIENT SYNTHESIS OF ZINC FERRITE NANOPARTICLES AND THEIR PHOTOCATALYTIC PERFORMANCE IN DEGRADING METHYL RED, ROSANILINE, AND RESORCINOL
05:50 pm	Ms. Sujata Borade	426	Magnetic properties of Rare earth doped ZnO nanoparticles: A comprehensive study via Magnetization and EPR
06:00 pm	Ms. Theja H R	529	“Transition metal nanoparticles (SiO <sub>2</sub> / TiO <sub>2</sub> ) in energy storage and utilization”
06:10 pm	Ms. Jenee Christian	607	Formulation and Evaluation of Dual Drug-Loaded Polymeric Nanoparticles of Formoterol Fumarate and Glycopyrrolate for Pulmonary Delivery
06:20 pm to 06:30 pm	Mr. Sudeep Mudhulu	643	Comparative Evaluation of CO <sub>2</sub> Adsorption on Fe-Based Metal Organic Frameworks

**Technical Session: I10 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/ujt-yfar-xqf>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Ms. Priya Yadav	678	Polymer-Induced Charge Transfer Enhancement in Green Synthesized Co <sub>2</sub> O <sub>3</sub> Nanocomposites for Photocatalysis
05:10 pm	Ms. Jaspreet Kaur	702	Regulation of Ca <sup>2+</sup> -induced $\beta$ -Casein Aggregation by Salt and $\kappa$ -Casein
05:20 pm	Ms. Manisha Yadav	705	Synergistic Anticancer and Antibacterial Activity of Moringa oleifera-Mediated ZnO-Co <sub>2</sub> O <sub>3</sub> Nanomaterials via a Green Nanotechnology Route
05:30 pm	Ms. Sphoorthi K	753	Solvatochromic and Defect-Mediated Luminescence in Hydrothermal Ag <sub>2</sub> WO <sub>4</sub> Nanostructures
05:40 pm	Dr. Neena Chandran	845	Comparative Evaluation of Wettability of Biosynthesised and Chemically Synthesised Silver Nanoparticle-based Root Canal Irrigants: An In-vitro Study
05:50 pm	Ms. Akhila A	868	Development of a Direct S-Scheme 2D/2D g-C <sub>3</sub> N <sub>4</sub> /Co-Al LDH Heterojunction with Integrated CdCO <sub>3</sub> Nanoparticles for Improved Photocatalytic Hydrogen Generation
06:00 pm	Mr. Umesh Kumar Tiwari	939	Resonant absorption of laser beam in arrays of vertically aligned arrays of carbon nanotubes
06:10 pm	Mr. Sonal Swaraj	1004	Theoretical investigation of Size, Shape and Temperature Dependent Nanothermodynamic Properties of (Zn,Ni)O Composite Nanomaterials
06:20 pm to 06:30 pm	Ms. Pinky Kumari	1007	Shape, Size and Temperature-Driven Nano Thermodynamic Evolution in C <sub>x</sub> Zn <sub>1-x</sub> O Nano materials

**Technical Session: J10 [Student Speakers]: Online mode**

Link: <https://meet.google.com/ged-paxi-xch>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Ms. Sneha Bharti	1095	Theoretical Analysis of Thermoelastic Behaviour of Na based Ionic Solids of NaCl-Structure Using the Holzapfel AP2 Equation of State
05:10 pm	Mr. Abhishek Mishra	1122	Green Nanoparticles as Emerging Therapeutic and Antimicrobial Platforms
05:20 pm	Ms. Hency George	1142	Extraction of nanocellulose from Biowaste using green approach and its characterisation
05:30 pm	Mr. Makan Mustapha	1162	Atomic-Scale Mechanical Reinforcement in Nickel-Graphene Composites: 2D Barriers as Multidirectional Dislocation Obstacles for 3D Strength
05:40 pm	Azra Parveen Ismail Ansari	1215	Green Synthesis, Structural and Thermophysical Characterization of TiO <sub>2</sub> /ZnO@Fe <sub>3</sub> O <sub>4</sub> Nanocomposite for Environmental Remediation
05:50 pm	Ms. Jinu R Varghese, Dr. Julie Chandra C.S	1288	Green hydrothermal preparation and characterization of carbon dots and their chitosan composites
06:00 pm	V.S.Noorjahan Begum	1385	Enhanced Microwave Absorption Performance of DyFeO <sub>3</sub> Orthoferrite Nanoparticles for Electromagnetic Wave Attenuation

06:10 pm	Ms. Archita Singh	817	Modelling and Numerical Simulation of CNT–Al <sub>2</sub> O <sub>3</sub> Hybrid Nanofluids using ANSYS for Thermal Properties Enhancement
06:20 pm to 06:30 pm	Mr. Ankit Roy	821	The Power of Nanomaterials: Bridging Atomic Structure and Technological Breakthroughs

**Technical Session: K10 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/fkz-bcba-yfb>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Mr. Ankit	830	CFD Analysis of Heat Transfer and Flow Characteristics of Hybrid Nanofluid in a Helical Heat Exchanger Considering Temperature-Dependent Properties and Variable Mass Flow Rates
05:10 pm	Ms. Shikha Upadhyay	893	Twisted 2D Carbon Based Nanomaterial Present Status, Challenges and Future Perspectives
05:20 pm	Ms. Diviya P	928	Development of a Sustainable, Low-Cost Bio-Composite Utilizing Mulberry Leaf Fiber and Nano-Reinforcements for Lightweight Structures
05:30 pm	Ms. Nikhila Ann Abraham, Dr. Dhanya I.	1486	Synthesis and Characterization of Zirconia Ceria-Doped Graphene Oxide Nanocomposites
05:40 pm	Ms. Komal D. Somkuwar	1212	Identification, Isolation and Characterization of Stress Degradation Impurities of Ertugliflozin using Hyphenated Technique LC-HRMS
05:50 pm	Ms. S.Nandhini	1338	AI-Based Sustainable Fuzzy Inventory Model with Carbon Emission in an Octagonal Fuzzy Environment: a Centroid-GMIR Comparison.
06:00 pm	Ms. Harshini RS	899	An analysis on SWOC factors affecting the growth of smart Coimbatore for developing a strategic framework for sustainable smart cities world wide
06:10 pm	Ms. Sampooram S	902	Identifying Quantitative Risk Assessment for Critical Risk Factors of Prefabricated Constructions During Renovation And Alterations
06:20 pm to 06:30 pm	Ms. Sohini Chakraborty	1153	Green - Synthesized Iron Oxide Nanoparticles as Smart Nanoparticles for Mercury Stress Mitigation in Brassica juncea

**Technical Session: L10 [Student Speakers]: Online mode**

**Link:** <https://meet.google.com/ijj-iyju-hdw>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Ms. Neha Jarodhia	585	Simultaneous removal of a cationic and an anionic dye using a biomass-derived nanocomposite adsorbent
05:10 pm	Dr. Kuldeep Singh	652	Bio-Inspired Ionic-Liquid-Engineered Biopolymer Films for Sustainable UV-Shielding Applications

05:20 pm	Dr. Suseela Lanka	986	“Waste Valorization through Green Nanobiotechnology: Advancing Coastal Sustainability and Community Resilience”
05:30 pm	Dr. E. Devaki, Ms. Narmathavarsa V	1198	Performance Analysis of Bioplastic-Coated Agro-Textiles for Controlled Degradation
05:40 pm	Ms. B. Karthika, Dr. E.Devaki	1231	The environmental impact of petroleum-based synthetic fibres has intensified the search for renewable and biodegradable alternatives in technical textiles: From Ocean to Fabric: Green Algae-Based Biopolymers in High-Performance
05:50 pm	Ms. Geeta Kulkarni, Mr. Vishal Lolge	1181	Assessment of Construction and Demolition Waste Management Practices for Sustainable Urban Development: A Case Study of Chhatrapati Sambhajinagar City, India
06:00 pm	Dharshan J	1208	COLORIMETRIC DETECTION OF HEAVY METAL CONTAMINATION IN WATER USING PLANT-DERIVED PIGMENTS
06:10 pm	Mohamed Riyaz P	1309	Effectiveness of Nano Fuel Additives in Mexicana Biodiesel–Diesel Blends On Performance and Emission of Diesel Engine
06:20 pm to 06:30 pm	Mr. Jayvinkumar Patel	1448	Integration of Industrial Automation for Circular Materials Management: A Bottle Handling System for Valorized Agricultural Food Packaging for Rural India

**Technical Session: M10 [Student Speakers]: Online mode**

Link: <https://meet.google.com/cxi-vipo-uap>

Date: 08.04.2026

Time: 05:00 PM to 06:30 PM

Time	Authors	Paper ID	Paper Title
05:00 pm	Mr. Sujal Vora	1449	Automated pH Control System for Climate-Resilient Agriculture and Food Processing for Indian Ecosystem
05:10 pm	Mr. Bhupathirajan A P	1370	Shape Memory Alloys: A Smart Material for Advanced Engineering Applications
05:20 pm	Ms. Nirmala Hande	1627	Miniaturized Fractal Antenna for Wireless Communications
05:30 pm	Mr. Akhilesh Pati Tiwari	1633	CFD Study of a Forced Solar Air Dryer with Paraffin PCM Storage in Recyclable Aluminium Cans
05:40 pm	Ms. Likhavi Kurrey	1634	Evaluation Of Bone Marrow Nucleated Cells And Insulin Like Growth Factor-1 For Segmental Fracture Gap Repair In Rabbits
05:50 pm	Mr. Gunjan Yadav	1610	Synthesis and Electrochemical Performance of V2C MXene as an Efficient Electrode Material for Supercapacitor Applications
06:00 pm	Auwalu Baballe	1623	Recent Progress on Spinel Ferrites-Base Electrode Materials for Supercapacitor Application
06:10 pm	Mr. Praveen Kumar Vishwakarma (Poster)	712	Red Emitting Eu <sup>3+</sup> Doped SrNb <sub>2</sub> O <sub>6</sub> Phosphors: Structural and Luminescence Studies
06:20 pm to 06:30 pm			