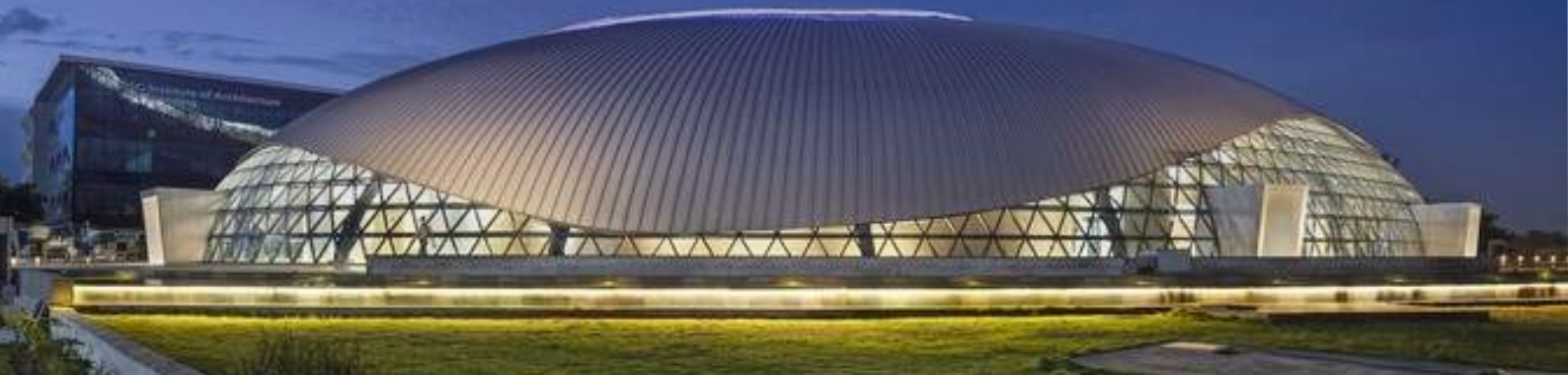
Program Schedule

International Conference on Sustainable Technologies for Energy and Environment

ICSTEE-2025

Jointly Organized by

PSG Institute of Advanced Studies, Coimbatore
&
ECS IIT Madras Student Chapter, IIT Madras, India



International Conference on Sustainable Technologies for Energy and Environment (ICSTEE – 2025)

Jointly Organized by

PSG Institute of Advanced Studies, Coimbatore & ECS-IIT Madras Students Chapter, IIT Madras, India

(27-29 November, 2025)

Pre-Conference Workshop

PROGRAM SCHEDULE

27 November 2025

Venue: PSG Institute of Advanced Studies, Peelamedu, Coimbatore

Inaugural Venue: 'D' Block Conference Hall, Ground Floor, PSG College of Technology		
8:00 AM	:	**Registration**
9:00 AM	:	**Invocation** *Ms. Santhoshini Murugan, Research Scholar, IIT Madras*
9:05 AM	:	**Welcome Address** *Dr. J. Kanchana, Director, PSG Institute of Advanced Studies*
9:10 AM	:	**Pre-Conference Workshop - Brief** *Dr. R. Kothandaraman, IIT Madras* *Dr. Anuradha M Ashok, PSG Institute of Advanced Studies* *Dr. Vasanth Dakshinamoorthy, PSG Institute of Advanced Studies*
9:25 AM	:	**Chief Guest Address** *Dr. K. Prakasan, Principal, PSG College of Technology*
9:35 AM	:	**Vote of Thanks** *Dr. M. Veena, PSG Institute of Advanced Studies*
9:40 AM	:	**Tea Break**

Workshop 01: ECS - Charge Craft: Advanced Electrochemistry with Hands-on Electro-Organic Synthesis, Battery Testing and EIS **Venue: 'D' Block Conference Hall, Ground Floor, PSG College of Technology**		
10:00 AM	:	**Prof. R. Kothandaraman, IIT Madras** *Probing Interfaces in Time & Frequency: Cyclic Voltammetry, Chronomethods and Impedance*
11:30 AM	:	**Dr. Vanchiappan Aravindan, IISER Tirupati** *The Importance of Recycling Li-ion Batteries: Unlocking Their Second Life*
12:30 PM	:	Lunch
Venue: 'G' Block, G-202 and G-203, PSG College of Technology		
01:30 PM	:	*Hands-on-Session: Electro-organic synthesis*
02:05 PM	:	*Hands-on-Session: Understanding mass transfer effects using EIS*
02:40 PM	:	*Hands-on-Session: Grain boundary resistance measurement in a solid electrolyte using EIS*
03:15 PM	:	Tea Break
03:30 PM	:	*Hands-on-Session: Electrochemical characterizations of Zinc-Bromine static battery/super capacitor*
04:30 PM	:	Session Feedback – Q&A
Workshop 02: Electron Microscopy **Venue: 'D' Block, PSG IAS - International Office - Seminar Hall**		
10:00 AM	:	**Dr. Anuradha M Ashok, PSG Institute of Advanced Studies** *Electron Microscopy: Fundamentals, types and Techniques*
11:30 AM	:	**Dr. Anuradha M Ashok, PSG Institute of Advanced Studies** *Electron Diffraction and TEM specimen preparation*
12:30 PM	:	Lunch
Venue: 'I' Block , PSG IAS		
01:30 PM	:	*Electron Microscopy Demonstration (Venue: I-107)*
03:15 PM	:	Tea Break

03:30 PM	:	*Electron Microscopy Data Analysis Training (Venue: I-314)*
04:30 PM	:	Session Feedback – Q&A
Workshop 03: Zebrafish Model for Environmental Risk Assessment **(Venue: I Block, PSG Polytechnic Seminar Hall, I-305)**		
10:00 AM	:	**Dr. P. Ekambaram, Prof and Head, Dept. of Biotechnology, Bharathiar University.** *Zebrafish – An Alternate Model for Neurotoxicity Research*
10:50 AM	:	**Dr. Ashish Pandey, Sr. Application Specialist, Carl Zeiss Pvt. Ltd. and SAARC RMS, India.** *Zebrafish Imaging: From Widefield to Nanoscale Approach*
11:40 AM	:	**Dr. Vasanth Dhakshinamoorthy, PSG Institute of Advanced Studies** *Zebrafish Model for Environmental Risk Assessment: A Special Emphasis on Fish Embryo Acute Toxicity (FET) Test*
12:30 PM	:	Lunch
Venue: I Block, Toxicology Lab, PSG IAS, I- 201F		
01:30 PM	:	*Hands-on- Training, Fish Embryo Acute Toxicity (FET) Test (OECD /OCDE 236)*
03:15 PM	:	Tea Break
03:30 PM	:	*Hands-on- Training, Fish Embryo Acute Toxicity (FET) Test (OECD /OCDE 236)*
05:00 PM	:	Session Feedback – Q&A

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Conference

PROGRAM SCHEDULE (28.11.2025)

Venue: PSG Convention Centre, Neelambur, Coimbatore

8: 00 AM	:	**Registration**
9:00 AM	:	**Invocation** *Ms. Santhoshini Murugan, Research Scholar, IIT Madras*
9:05 AM	:	Welcome Address *Dr. J. Kanchana, Director, PSG Institute of Advanced Studies*
9:10 AM	:	**About the Conference** *Dr. P. Biji, PSG Institute of Advanced Studies* *Dr. R. Kothandaraman, IIT Madras*
9:15 AM	:	**Presidential Address** *Dr. P. V. Mohanram, Secretary, PSG Institute of Technology and Applied Research*
9:20 AM	:	**Inaugural Address – Chief Guest** *Dr. U. Kamachi Mudali, Vice-Chancellor, Homi Bhabha National Institute, Mumbai*
9:35 AM	:	**Special Address – Guest of Honor** *Mr. Sunil Kumar, Director General, ONGC Energy Centre, Delhi*
9:45 AM	:	**Special Address – Guest of Honor** *Dr. Ranjith Krishna Pai, Scientist 'F'/Senior Director, Department of Science and Technology, Government of India*
9:55 AM	:	**Vote of Thanks** Dr. R. Selvakumar, PSG Institute of Advanced Studies
10:00 AM	:	Tea Break

Session 1 - Plenary Lectures

Session Chair: Dr. D. Parvathalu, ONGC Energy Centre

10:30 AM	:	**Prof. R. R. Sonde, Birla Institute of Technology and Science (BITS), Pilani – Goa** *Science - Speed-Scale in Sustainability and from Pilot to Policy for Industrial Impact*
11:15 AM	:	**Dr. Ranjith Krishna Pai, Department of Science and Technology, Government of India** *Research to Reality: Building India's Green Hydrogen Ecosystem through Innovation and Collaboration*
12:05 PM	:	**Dr. R. Vijay, International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Hyderabad** *Development of Materials and Processes for Energy @ ARCI*
12:45 PM	:	Lunch Break

Parallel Sessions Venue @ PSG Institute of Technology and Applied Research, Neelambur, Coimbatore

Hall 01	:	Thejas - Department of Mechanical Engineering
Hall 02	:	Shakthi - Department of Civil Engineering
Hall 03	:	Prithvi - Department of Electronics and Communication Engineering

Session 2 - Keynote lectures

Hall	Thejas- Hall 1	Shakthi - Hall 2	Prithvi - Hall 3
Session Chair	Prof. Yves Lansac, Uty Tours, France	Prof. Shobha Shukla, IIT Bombay	Prof. Venkatakrishnan, IIT Mandi
2.00 PM (30+5 min)	**Prof. Pratibha Sharma, IIT Bombay** *Metal Hydride Materials and Systems for various Applications*	**Prof. Yun Hee Jang, DGIST, South Korea** *Hard-Cation-Soft-Anion Ionic Liquids Enhancing PEDOT: PSS Conductivity and Stretchability. Multiscale Molecular Modeling*	**Prof. Ligy Philip, IIT Madras** *Sustainable Water Management through Circularity Principles: Case Studies*
2.35 PM (30+5 min)	**Dr. D. Parvatalu, ONGC Energy Center** *Green Hydrogen Development Initiatives at ONGC Energy Centre*	**Prof. Sangaraju Shanmugam, DGIST, South Korea** *Electrosynthesis of green and sustainable fuels*	**Prof. Shankara Gayathri Radhakrishnan, Univ. of Pretoria, South Africa** *Electrochemical Activation of Carbon dioxide*

3.05 PM (30+5 min)	**Prof. R. Kothandaraman, IIT Madras** *Reinforcing a Lithium-ion Battery Cathode (NCA) with Mn Doping*	**Dr. K. Kadirvelu, DRDO-BU** *Advanced Nanoarchitectures: Transforming Defence Capabilities with Multifunctional Nanomaterials*	**Dr. Nancharaiah, BARC, Kalpakkam** *Aerobic Granular Sludge Technology: Advantages, Challenges and Perspectives*
3.40-4.00 pm	Tea Break		
Session 3- Invited lectures			
Hall	**Thejas- Hall 1**	**Shakthi - Hall 2**	**Prithvi - Hall 3**
Session Chair	**Prof. R. Kothandaraman, IIT Madras**	**Prof. Sumit Saxena, IIT Bombay**	**Dr. K. Kadirvelu, DRDO- BU**
4.00 PM (30+5 min)	**Prof. P. Venkatakrishnan, IIT Madras** *Next-Generation Carbazole-Based π-Conjugated Materials for High Performance Energy Solutions*	**Dr. Raman Vedarajan, ARCI Chennai** *Circular PEMFC Technology: High-Performance Functionalized Pt/C Electrocatalysts Coupled with Platinum and Nafion® Recycling Pathways*	**Dr. Alseno Mosai, University of Pretoria, South Africa** *Treatment of mining waste using a combination of technologies and the recovery of precious elements from the mining waste*
4.35 PM (20+5 min)	**Dr. M. Sathish, CECRI, Karaikudi** *High-Energy Supercapacitors: Integrating Nanocarbons and Advanced Electrolytes*	**Dr. Manjusha Battabyal, IITDM Kancheepuram** *Waste Heat Recovery: Nanostructured Thermoelectric for Sustainable Energy*	**Dr. Bhuvaneswari Sridhar, IIT Madras** *Energy Saving and Sustainability In Scaling Chemical Process – An Overview*
Session 4 - Oral Presentations			
Hall	**Thejas- Hall 1**	**Shakthi - Hall 2**	**Prithvi - Hall 3**
5.00 PM (8+2 min)	**OP (1-6)**	**OP (7-11)**	**OP (12-17)**
6.00 PM	**Session 5 – Poster Presentation**		
7.00 PM	**Cultural Program & Gala Dinner**		

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Venue: PSG Institute of Technology and Applied Research, Neelambur, Coimbatore

Session 6 – Keynote Lectures			
Session Chair	**Prof. Prathiba Sharma, IIT Bombay**	**Prof. Yun Hee Jang, DGIST, South Korea**	**Dr. Nancharaiah, BARC, Kalpakkam**
Hall	**Thejas- Hall 1**	**Shakthi - Hall 2**	**Prithvi - Hall 3**
9.30 AM (30+5 min)	**Prof. Yves Lansac, Uty Tours, France** *DNA condensation and aggregation induced by condensing agents*	**Prof. Shobha Shukla, IIT Bombay** *Functional Biopolymeric Micro/Nanostructures using Femtosecond Laser Lithography and their Applications*	**Prof. Girish Gopinath, KUFOS, Kochi** *Application of Geospatial Technology in Water Resources Management*
10.05 AM (30+5 min)	**Prof. Venkatakrishnan, IIT Mandi** *Development of Sustainable Heterogeneous Catalysts for Energy and Environmental Applications*	**Dr. B. Subramanian, CECRI Karaikudi** *Thin film Electrodes by Physical and Chemical methods for Energy Storage*	**Dr. Arockia Lenin, Ministry of Environment, Forest and Climate Change** *Ministry of Environment, Forest and Climate Change: India's Governance and Recent Policies Addressing impacts of Climate Change*
10.40 AM	Tea Break		
Session 7 – Keynote Lectures			
Session Chair	**Prof. Shanmugam Sangaraju, DGIST, South Korea**	**Prof. Shankara Gayathri Radhakrishnan, Univeristy of Pretoria, South Africa**	**Dr. Arockia Lenin, Ministry of Environment, Forest and Climate Change**

11.00 AM (30+5 min)	**Prof. K. Chandraraj, IIT Madras** *2G Ethanol: A Promising Alternative Renewable and Sustainable Energy Carrier in India*	**Prof. N. Ponpandian, Bharathiar University** *Transition Metal Co-Doped WO_3 Nanorods as Efficient Electrocatalysts for the Oxygen Evolution Reaction*	**Dr. Joseph Kingston, DFRL** *Climate Change and Harsh Environments: Postbiotics as Resilient Protectors of the Gut Microbiome*
Invited Lectures			
11.35 AM (20+5 min)	**Prof. Sumit Saxena, IIT Bombay** *Recent Advances in Electrode Materials for Supercapacitors*	**Dr. B. Bhuvaneshwari, IIT BHU** *Green Carbon: An in-depth Understanding of its Fibrillar Nature and Doping Promoted Electrochemical Activity*	**Prof. Sankar Ganesh Palani, BITS Pilani, Hyderabad** *Process Reconfiguration of High-Solids Anaerobic Co-Digestion of Food Waste and Sewage Sludge Using Novel HOLAnD® System*
12.00 PM (20+5 min)	**Dr. Rohini Kitture, Deputy Editor, Wiley (online mode)** *Mastering Research Publishing: Insights from the Editor's Desk*		
12.30 PM	Lunch Break		
Session 8 – Oral Presentation			
Hall	**Thejas- Hall 1**	**Shakthi - Hall 2**	**Prithvi - Hall 3**
1.30 PM *(10 min each)*	**OP (18-23)**	**OP (24-29)**	**OP (30-36)**
Session 9 – Invited Lectures			
Session Chair	**Prof. N. Ponpandian, Bharathiar University**	**Dr. B. Subramanian, CECRI Karaikudi**	**Prof. K. Chandraraj, IIT Madras**

2.30 PM (20+5 min)	**Dr. B. Rakhi, NIIST Trivandrum** *Ti-Based MXenes and Their Hybrids as Efficient electrode Materials for Sustainable Energy Storage Devices*	**Prof. Sudip Kumar Batabyal, Amrita Vishwa Vidyapeetham** *Surface Charge Engineering for Hydrovoltaic Power Generation*	**Dr. Dinesh Jagadeeshan, IIT Palakkad** *In pursuit of low temperature ethylene oxidation.*
2.55 PM (20+5 min)	**Dr. Vanchiappan Aravindan, IISER, Tirupati** *High Performance Na-ion Batteries via Solvent-co-Intercalation*	**Dr. Rajini Antony, BARC, Kalpakkam** *Investigation of Electrochemical Interfaces by Scanning Probe and Spectroelectrochemical tools for industrially relevant electrochemical devices*	**Dr. Rohit Srivastava, PDEU Gandhinagar** *The Strategic Role of Green Hydrogen in Achieving Sustainable and Low-Carbon Energy Futures*
3.20 PM (20+5 min)	**Dr. Ulaganathan Mani, Amrita Vishwa Vidyapeetham** *Boosting the cycle life of the Zn-I_2 Hybrid Redox Flow Battery*	**Dr. T. Maiyalagan, SRM Institute of Technology, Kattankulathur** *Innovative Materials for Low-Cost Green Hydrogen Generation*	**Dr. R. Ariharasuthan, DJ Academy of Design** *Traditional and Sustainable Packaging: A Paradigm for the Future*
3.45 PM (20+5 min)	**Dr. P. Bala Srinivasan, High Energy Batteries Ltd.** *Green hydrogen pathways – An Indian Perspective*	**Sponsor Lecture - 01** **Dr. Manimaran paramasivam** **Carl Zeiss** *ZEISS Versa 3D X-ray Microscopy: Unlocking Material Innovations for Energy Storage*	**Sponsor Lecture - 02**
4.10 PM	Tea Break		

Valedictory Function (Venue: THEJAS - Hall 1)

04:30 PM	:	**Welcome Address** *Dr. J. Kanchana, Director, PSG Institute of Advanced Studies*
04:35 PM	:	**Chief Guest Address** *Dr. N. Saravanakumar, Principal, PSG Institute of Technology and Applied Research*

04:40 pm	:	**Oral/Poster Presentation Prize Distribution** *Wiley Awards: Dr. P. Biji, PSG Institute of Advanced Studies* *ACS Awards: Mr. Sujan Sekhar, ACS Publication* *RSC Awards: Dr. R. Selvakumar, PSG Institute of Advanced Studies*
04:50 PM	:	**Concluding Remarks** *Dr. Anuradha M Ashok, PSG Institute of Advanced Studies*
04:55 PM	:	**Feedback Session**
05:00 pm	:	**Vote of Thanks** *Dr. B. Geetha Priyadarshini, PSG Institute of Advanced Studies*

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LIST OF ORAL PRESENTATION PARTICIPANTS

S. No.	OP ID	Sal.	Name of the Participant	Institute	Title of the Talk
28.11.2025					
ENERGY					
1	OP-01	Ms.	Suruthi V	CSIR Central Electrochemical Research Institute	**ABS-014:** Mn_3O_4/RuO_2 Composite as Bifunctional Electrocatalyst for Efficient Oxygen Reactions in Rechargeable Zinc-Air Batteries
2	OP-02	Ms.	B Rajeshwaree	Indian Institute of Technology, Bombay	**ABS-021:** CO_2 Capture and Mineralization by a Zinc-based Molecular Complex Under Industrially Relevant Conditions
3	OP-03	Ms.	Chandni A P	Calicut University	**ABS-042:** Defect-Engineered Sulfur-Doped Graphene/Polyaniline Nanocomposites as High-Energy Electrodes for Asymmetric Supercapacitors
4	OP-04	Ms.	Sreyesha A	SRM Institute of Science and Technology	**ABS-050:** NIRVANA-2618: A Sustainable Hydrogen-Based Engine for Zero-Emission Mobility.
5	OP-05	Mr.	Mohanraj Madeshwaran	Amrita Vishwa Vidyapeetham	**ABS-129:** Modified Nickel Oxide for Enhanced Supercapacitor and OER Electrocatalyst Applications.
6	OP-06	Ms.	Nandhini S	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology	**ABS-093:** Influence of Fe^{3+} ions on Structural, Morphology, Elemental and Optical Properties of Lanthanum Aluminate Nanoparticles.

7	OP-07	Mr.	Vivek V G	PSG Institute of Technology and Applied Research	**ABS-122:** Performance Evaluation of PEM Fuel Cells under Varying Active Area: An Experimental and Numerical Approach
8	OP-08	Mr.	Anoop Naikkath	Indian Institute of Technology, Madras	**ABS-145:** Quantitative Determination of Diffusivity in Ferro/Ferricyanide System Using Warburg Impedance under DC Bias
9	OP-09	Ms.	Sreelakshmi Paruvayakode	Indian Institute of Technology, Madras	**ABS-146:** Mechanistic Analysis of Anodic Dissolution of Mg in Simulated Seawater
10	OP-10	Mr.	Irshad M.K	PSG Institute of Advanced Studies	**ABS-163:** Nickel–Cobalt Phosphide Nanoneedle Arrays Supported on BiomassDerived 3D Activated Carbon as a High-Efficiency Electrode for Advanced Asymmetric Supercapacitors
11	OP-11	Mr.	Vansh Bhutani	Indian Institute of Technology, Madras	**ABS-167:** Viologen-Based Zn–Electrochromic Energy Storage Device with Polymer Electrolyte for Smart and Scalable Applications
ENVIRONMENT					
12	OP-12	Prof.	Ramesh C. Bansal	University of Sharjah	**ABS-018:** Reducing Tree Contact Faults via Partial Patterned Insulation
13	OP-13	Mr.	Saranraj G	Centre for Pollution Control and Environmental Engineering, Pondicherry University	**ABS-069:** Treatment and Energy Recovery from Fish Market Wastewater Using a Constructed Wetland–Microbial Fuel Cell (CWMFC) with Phragmites australis
14	OP-14	Ms.	Harsha Dhanwani	Institute of Chemical Technology, Mumbai	**ABS-075:** A Sustainable Pathway for Carbon Recycling through Dry Reforming of Methane
15	OP-15	Ms.	Priyanka Babubhai Shivde	Institute of Chemical Technology, Mumbai	**ABS-076:** Sustainable Conversion of CO_2 to Methane Using Biochar-Based Supported Catalysts
16	OP-16	Mr.	Purushothaman P	Vellore Institute of Technology	**ABS-105:** Iodine adsorption by thiophene-based covalent organic polymer: a study of structural influence on performance

17	OP-17	Ms.	Blessy S	PSG Institute of Advanced Studies	**ABS-108:** Valorized Cassava Waste as a Sustainable Adsorbent for Vancomycin: Performance and Interaction Mechanisms
29.11.2025					

ENERGY					
18	OP-18	Ms.	Karthiga Manivannan	Bharathiar University	**ABS-170:** Catalytic Activity of Copper decorated Scandium Carbonitride MXene (Cu@Sc_3CN) towards Electrochemical Carbon dioxide reduction to CH_3OH- A DFT Study
19	OP-19	Ms.	Thilagavathi T	Anna University	**ABS-171:** Green Combusted $YFeO_3$ nanomaterial as a promising electrocatalyst for green hydrogen production
20	OP-20	Ms.	Bhagyashree Ponmudi	PSG Institute of Advanced Studies	**ABS-173:** Sputter deposition of Bi_2Se_3 and SnSe thin films for thermoelectric applications
21	OP-21	Ms.	Sugatha P S	Amrita Vishwa Vidyapeetham	**ABS-185:** Design and Development of Naphthalic-Based Organic Single Crystals for Enhanced Self-Powered Photodetection
22	OP-22	Mr.	Vijai Kaarthi V	PSG Institute of Technology and Applied Research	**ABS-196:** Open Source AI Framework for Simplified PEM Fuel Cell Modelling
23	OP-23	Ms.	Navya John	PSG Institute of Advanced Studies	**ABS:120** Influence of lower valent element substitution on tailoring carrier transport modulation in n- type ZnFe2O4 for enhanced high temperature thermoelectric performance
24	OP-24	Ms.	Darsana Sudarsan	Amrita Vishwa Vidyapeetham	**ABS-203:** Moisture-Activated Energy Generation in Interface-Tailored Lead-Free Halide Perovskites
25	OP-25	Ms.	Edita Joseph	Amrita Vishwa Vidyapeetham	**ABS-204:** Metal Cation intercalated layered sulphoselenides for Next-Generation optoelectronic applications
26	OP-26	Ms.	Neethu M	Amrita Vishwa Vidyapeetham	**ABS-225:** Fluorine-incorporated graphene oxide for hydrovoltaic power generation:

					Improving proton migration and storage capacity
27	OP-27	Ms.	Catherine Jesinthamary D	PSG Institute of Advanced Studies	**ABS-227:** Structural, morphological, and optical properties of sputtered amorphous indium–tin–zinc–calcium oxide thin films for display applications.
28	OP-28	Mr.	Nishanth Kumar M	CSIR-Central Electrochemical Research Institute	**ABS-228:** Efficient Smog and CO_2 Removal using Adsorption-Based DAC System: Field Deployment in Urban Environments
29	OP-29	Mr.	Sankaran V	PSG College of Technology	**ABS-192:** Investigation of Structural and Optical Properties of CeO_2 Nanoparticles for UV Photodetector Applications.

ENVIRONMENT					
30	OP-30	Dr.	Kasthuri Thilagam V	ICAR - Sugarcane Breeding Institute	**ABS-131:** Assessing the carbon sequestration potential of soil and water conservation interventions at the watershed level.
31	OP-31	Mr.	Nikhil G Mohan	IIT Madras	**ABS-164:** Sonochemical reduction of Nitrates to Ammonia for facile removal of nitrates from water.
32	OP-32	Ms.	Nithya K	Bharathiar University	**ABS-179:** Fluorescent Carbon Quantum Dots as Dual-Function Probes for UltraSensitive Chromium (VI) Detection and In Vivo/In Vitro Bioimaging.
33	OP-33	Mr.	Rajesh U P	PSG Institute of Advanced Studies	**ABS-197:** Sustainable SERS platform for Pesticide Detection Using Silver Nanoparticles on Black Silicon Recycled from Solar Cells.
34	OP-34	Dr.	Rajkumari Kumaraswamy	Khalifa University	**ABS-199:** Comparative assessment of pure culture vs mixed culture fermentation in synthesis of commercially viable products.
35	OP-35	Ms.	Nikita Jayant Vyawahare	Savitribai Phule Pune University	**ABS-213:** Carbon Dot-Based Ratiometric Fluorescent Probe for Sensitive Detection of Mercury and Lead Ions.
36	OP-36	Ms.	Unnamalai.S	PSG Institute of Advanced Studies	**ABS-246:** A seaweed-based 3D bioprinted scaffolds for multiple critical metal recovery from spiked aqueous solution.

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