



International Conference on Shaping the Energy Future: Challenges & Opportunities
Theme: Catalyzing Sustainable Future with Affordable Energy and Chemicals

CSIR - Indian Institute of Petroleum, Dehradun, Uttarakhand, India
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List of Abstracts Accepted for the Presentation at the SEFCO-2025 (28th March 2025)

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Theme: Carbon Capture, Conversion, and Storage (CCCS)				
1	CCCS-005	Mr. Kapil D Dhotre	Carbon dioxide (CO ₂) Sequestration: Process Development and Intensification for the Preparation of Salicylic acid/Aspirin by catalytic carboxylation of phenol using supercritical carbon dioxide (CO ₂)	Oral
2	CCCS-018	Ayush Pandey	Carbon dioxide adsorption in a multistage fluidized bed Reactor	Oral
3	CCCS-025	Akhil Kumar Gupta	Post combustion CO ₂ capture using novel aqueous amine blend of 1-(2-Amino Ethyl) Piperazine (AEP) and 3-Dimethyl amino-1-propanol (3-DMA-1-P): Thorough absorption and desorption analysis	Oral
4	CCCS-030	Dr. Swapnil Dharaskar	Deep Eutectic Solvent Gel Membranes for Efficient CO ₂ Separation Applications: Experimental and DFT Prediction Analysis	Oral
5	CCCS-038	Anirban Mukherjee	Electrochemical reduction of CO ₂ using 2D gC ₃ N ₄ supported Indium doped-Bi ₂ S ₃ : Study of the role of Indium doping on the selectivity of products	Oral
6	CCCS-040	Gaurav Hazarika	Screening and feasibility of sustainable Low Saline Enhanced Oil Recovery in a matured sandstone reservoir	Oral
7	CCCS-042	Satyajit Panda	Tailored Ni based catalyst for CO ₂ mitigation	Oral
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9	CCCS-006	Dr. Nilesh Choudhary	MOLECULAR SIMULATION AND THERMODYNAMICS STUDIES FOR DECARBONISATION	Oral/Poster*
10	CCCS-010	Supriya Das	BODIPY-FUNCTIONALIZED HETEROBIMETALLIC Ru(II)-Fe(II) DYAD: A PROMISING AND SUSTAINABLE SINGLET OXYGEN PHOTOSENSITIZER FOR PHOTOCATALYTIC ORGANIC TRANSFORMATION	Oral/Poster*
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53	CCCS-011	Prof. Rajib Bandyopadhyay	Green catalytic process for highly selective and sustainable synthesis of cyclic carbonates from epoxides and CO ₂ using copper-based hybrid silicoaluminophosphates	Oral
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55	CCIO-008	Azeem Khan	Optimizing Gas Chromatography Parameters for Thermally Unstable Dicyclopentadiene Mixtures Analysis	Oral/Poster*
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172	RCEN-033	NGOMADE LEMOUP SERGES BRUNO	Optimization at the pilot scale of enhanced biodiesel production from high FFA Podocarpus falcatus oil through simultaneous transesterification and esterification with zirconia-supported ZSM-5	Poster
173	RCEN-034	PATEL P ASHOK	Bioprospecting of novel thermophilic amylase-producing microorganism	Poster
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175	RCEN-042	SADHNA SEMALTY	CATALYTIC SYNTHESIS OF SULFUR-BASED POLYMER VIA INVERSE VULCANIZATION METHOD	Poster
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180	RCEN-047	Shirisha V	Rutile-TiO ₂ a desirable support for Ni catalyst in the synthesis of γ -valerolactone: Influence of titania crystal phase on the product distribution	Poster

*: A further decision to oral or poster presentation will be communicated by 9th April 2025