

International Conference on Shaping the Energy Future: Challenges & Opportunities (SEFCO-2025) CSIR - Indian Institute of Petroleum, Dehradun, Uttarakhand, India



Technical Program (Tentative)

It issues takes to a Creating system or com-									
23.04.2025, Wednesday (Day I)									
Registration (08:30 Onwards)									
Inauguration Program (9:30 - 10:55)									
High Tea (10:55 - 11:30)									
Technical Session-I: Carbon Capture, Conversion, and Storage (11:30 - 13:00)									
11:30	PT-01	Prof. Paul A Webley, Monash University, Australia							
		Carbon Reuse and Recycling – Advances and Challenges in Developing a Circular Carbon Economy							
12:00	KT-01	Prof. Sasidhar Gumma, Indian Institute of Technology, Tirupati							
		Reference State for Adsorption Thermodynamics							
12:25	KT-02	Dr. Richard Blom, SINTEF Industry, Norway							
12.50	Faliaitat	Solid-Adsorbent Based CO ₂ Capture Processes: Challenges and Opportunities							
12:50	Felicitat								
			3:00 - 13	:50)					
		Technical Session-Ila: Renewable Chemicals and Energy			Technical Session-IIb: Carbon Capture, Conversion, and Storage				
13:50	IT-01	Dr. Shubhangi B. Umbarkar, CSIR-National Chemical Laboratory, Pune	13:50	IT-03	Dr. Nimisha Vedanti, CSIR-National Geophysical Research Institute, Hyderabad				
		Green Catalytic Delignification Process for Microcrystalline Cellulose from Sugarcane			Unlocking Geological Carbon Storage: Scope and Challenges in India				
14:10	IT-02	bagasse Dr. Kamalakannan Kailasam, Institute of Nano Science and Technology, Mohali	14:10	IT-04	Dr. Gulzar A. Bhat, University of Kashmir, Srinagar, J&K				
14.10	11-02	Biomass based Photo-refinery: A Light(er) Approach for Sustainable Solar Fuels	14.10	11-04	From Waste to Value: CO ₂ -Based Aliphatic Polycarbonates and Their Functionalization for				
		Biolituss bused i noto-refinery. A Eight(er) Approach for sustainable solar rueis			Advanced Applications				
14:30	CT-01	RCEN-001	14:30	CT-06	CCCS-005				
14:40	CT-02	RCEN-003	14:40	CT-07	CCCS-018				
14:50	CT-03	RCEN-008	14:50	CT-08	CCCS-025				
13:00	CT-04	RCEN-025	13:00	CT-09	CCCS-030				
15:10	CT-05	RCEN-035	15:10	CT-10	CCCS-040				
15:20	Felicitat	elicitation 15:20 Felicitation							
		Poster Session I (RCEN + CCCS +	CSIO The	emes) + Te	ea (15:25 - 16:40)				
		Technical Session-III: Crude Oil & Coal: Explo	ring Inno	vations &	Opportunities (16:40 - 18:05)				
16:40	KT-03	Dr. Manoj Srivastava, CSIR-Indian Institute of Petroleum, Dehradun							
CSIR-IIP's Technologies Commercialization Journey to Hydrocarbon Industry: Few Case Studies									
17:05	KT-04	Dr. Pankaj K Jain, IndianOil Total Pvt. Ltd, Mumbai							
		India Bitumen and Derivatives Market: Trends, Opportunities, and Future Outlook							
17:30	KT-05								
47	F-1: ': :	Indian Coal Biomass Gasification: Challenges and R&D Aspects							
17:55	Felicitat								
Evening Tea Break (18:05 - 18:30)									
Cultural Programme (18:30 - 19:45)									
Dinner (19:45 - 21:15)									



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Technical Program

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	24.04.2025, Thursday (Day II)								
		Breakfast	•	•	and Fishing Mahility (0:20, 10:FF)				
Technical Session IV: Energy Transition, Energy Efficient Practices and Future Mobility (9:30 - 10:55) O9:30 KT-06 Prof. Saptarshi Basu. Indian Institute of Science. Bangalore									
05.30	K1-00	Prof. Saptarshi Basu, Indian Institute of Science, Bangalore Combustion at Extreme Conditions: New paradigms							
09:55	KT-07								
		Lead Halide Perovskites: The Bright Nanocrystal Emitters							
10:20	KT-08	Prof. Eric van Steen, University of Cape Town, South Africa							
40.45	F-U-it-t	Sustainable Liquid Fuels as a Renewable Energy Source							
10:45 Felicitation Tea (10:55 - 11:15)									
T	achnical Sc	rea (10 ession Va: Energy Transition, Energy Efficient Practices & Future Mobility		-	sion Vb: Renewable Chemicals & Energy/Carbon Capture, Conversion & Storage				
11:15	IT-05	Prof. Tharamani C Nagaiah, Indian Institute of Technology, Ropar	11:15	IT-07	Dr. Amol Amrute, Agency for Science, Technology & Research (A*STAR) Singapore				
11.13	11-03	Efficient Economical Energy Harvesting from Plastic and Electronic Wastes Using Human	11:15	11-07	Mechanochemical Approach for Greener Synthesis Catalysts and Conversion of CO ₂ and				
		Bodily Motions			Plastic to Chemicals				
11:35	IT-06	Dr.Bikash Kumar Jena, CSIR-Institute of Minerals and Materials Technology,	11:35	IT-08	Prof. Diganta Sarma, Dibrugarh University, Dibrugarh				
		Bhubaneswar			Ionic Liquids Based Catalysis for the Green and Affordable Synthesis of Medicinally Important				
11:55	CT-11	Materials for Efficient Energy Storage Systems EEEF-002	11:55	CT-18	Scaffolds RCEN-039				
12:05	CT-11	EEEF-002	12:05	CT-18	RCEN-0XX				
12:05	CT-12	EEEF-011			RCEN-0XX				
12:15	CT-13	EEEF-023	12:15 12:25	CT-20	CCCS-038				
12:35	CT-14	EEEF-023	12:25	CT-21	CCCS-042				
12:45	CT-16	EEEF-035	12:45	CT-22	CCCS-042				
12:45	CT-16	EEEF-0XX	12:45	CT-23	CCCS-0XX				
13:05									
13:05	rencitati	Felicitation 13:05 Felicitation Lunch (13:10 - 14:00)							
		Technical Session VI: Catalyzing Sustainable Futur		•	Energy & Chemicals (14:00 – 15:25)				
14:00	KT-09	Prof. Samira Siahrostami, Simon Fraser University, Canada	C WILLIA	Horabic	Energy & Chemicals (14.00 15.25)				
14.00	K1-03	Title: Yet to be received							
14:25	KT-10	Bharat L. Newalkar, R&D Centre, Bharat Petroleum Corporation Limited, C	Greater N	oida					
		Exploring Alternate Pathways for India Centric Decentralized Green Hydrogen Production							
14:50	KT-11	6							
45.45	F 11 11 11	Subsurface Reservoir: Role in Sustainable Energy Futures to Climate Resilience							
15:15	Felicitati		DOEN!	T /45 0	T. 4C.40)				
		Poster Session II (HPSE-			•				
		Panel Discussion: How to Fill India'							
Evening Tea Break (17:50 - 18:30) Departure for Gala Dinner (18:30)									
Gala Dinner (19:15 - 21:30)									
Gaid Dillile: (13.13 - 21.30)									



HPSE:

Hydrogen Production, Storage & End-Use

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Technical Program

25.04.2025, Friday (Day III)										
Breakfast (08:30 – 9:30) Technical Session VII: Renewable Chemicals and Energy (9:30 – 11:25)										
09:30										
		Heterogeneous Catalysis of C-O Hydrogenolysis and H_2 -Driven Deoxydehydration for the Synthesis of Biomass-Derived Chemicals								
10:00	KT-12	Sh. Rajesh Agrawal, Centre for High Technology, Noida								
		Policy Push for Biofuels								
10:25	KT-13	Prof. Sunil K Maity, Indian institute of Technology, Hyderabad								
10:50	KT-14	Sustainable Aviation Fuel from Furanic Derivatives Using Heterogeneous Catalysts De A Venue and CSID Undies Institute of Classical Technology Understand								
10.50	K1-14	Dr. A Venugopal, CSIR – Indian Institute of Chemical Technology, Hyderabad Hydrogen Production through Catalytic Cracking of Methane: Solid Metals vs Molten Metals								
11:15	Felicitat	, , , , , ,								
Tea (11:25 - 11:45)										
	Techn	ical Session VIIIa: Crude Oil & Coal: Exploring Innovations and Opportunities	Techni	cal Sessio	n VIIIb: (Energy/Sustainable Resources/ Hydrogen Production, Storage & End-Use)					
11:45	IT-09	Dr. R. Ravishankar, Hindustan Petroleum Green R&D Center, HPCL, Bangalore	11:45	IT-11	Sh. Ishan Purohit, International Finance Corporation, World Bank Group, Delhi					
		Innovative Chemical Solutions for Petroleum and Petrochemical Applications:			Grid-Scale Battery Energy Storage Systems (BESS) Projects in India: Essential Requirement to					
		Atmanirbhar Initiatives by HPCL Green R&D Centre			Address Energy Transition					
12:05	IT-10	Sh. Himanshu Sharma, Engineers India Limited, New Delhi	12:05	IT-12	Prof. Surendra S Suthar, Doon University, Dehradun					
		Effect of Carbon Emissions on Configuration of Integrated Refinery Petrochemical Complex			Yet to be Received					
12:25	CT-25	CCIO-001	12:25	CT-32	HPSE-006					
12:35	CT-26	CCIO-002	12:35	CT-33	HPSE-008					
12:45	CT-27	CCIO-010	12:45	CT-34	HPSE-015					
12:55	CT-28	CCIO-011	12:55	CT-35	HPSE-032					
13:05	CT-29	CCIO-0XX	13:05	CT-36	HPSE-033					
13:15	CT-30	CCIO-0XX	13:15	CT-37	HPSE-034					
13:25	CT-31	CCIO-0XX	13:25	CT-38	HPSE-0XX					
13:35	Felicitat	ion	13:35 Felicitation							
Valedictory Session (13:40 – 13:55)										
13:40	KT-10	Initiation								
13:45	KT-11	Prize distribution								
13:55	55 KT-12 Vote of thanks									
		· · · · · · · · · · · · · · · · · · ·	4:00 – 15							
CCCS:		Carbon Capture, Conversion, and Storage PT: Plenary Talk (30 Minutes)								
CCIO:										
EEEF:	EEEF: Energy Transition, Energy Efficient Practices and Future Mobility IT: Invited Talk (20 Minutes)									

CT: Contributory/Oral Talk (10 Minutes)

RCEN: Renewable Chemicals and Energy
Detail list of contributory/oral talks and posters along with their abstract ID and session assignment is timely updated on the SEFCO-2025 webpage