



Catalyst & Solvent Strategies

10 Jul 2026 - 10 Jul 2026

CONFERENCE PROGRAMME

Friday, 10th July 2026

08:00	Tentative Programme
09:00	Inaugural Session
09:30	<p>Plenary Session: India's Reaction Engineering Future: Efficiency, Sustainability & Scale</p> <p>Why solvent and catalyst selection are the biggest levers for industrial competitiveness. The shift toward green chemistry, biocatalysis, and low-carbon processes. India's opportunity to lead in sustainable reaction engineering</p>
09:30	<p>Catalysts & Solvents: The Key to Sustainable Industrial Competitiveness Vinod Kansal , Founder , Kantech Research Solutions , India</p>
10:00	<p>Session 1- Advanced Solvent Selection for Industrial Chemistry</p> <p>Theme: Critical Issues in Solvent Choice: Mechanistic & Practical Perspectives</p>
10:05	<p>ICH Guided Solvent Selection: Balancing Purity, Safety, and Compliance Replacing Class 2 Solvents</p>
10:25	<p>Smart Solvent Design for Cost Effective and Scalable Manufacturing</p>
10:45	<p>Solvent Recovery as a Profit Center: Engineering for Reuse and Purity</p>
11:05	<p>Networking Tea Break</p>
11:35	<p>Session 2- Green & Alternative Solvents for Sustainable Manufacturing</p> <p>Theme: Replacing Traditional Solvents Without Compromising Yield</p>
11:40	<p>Green Solvents in Practice: Ionic Liquids, Deep Eutectic Solvents, and Bio Based Media Mukesh Sharma , Chief Manager - Innovation , ClimaCrew , India</p>
12:00	<p>Water and Other Sustainable Reaction Media: Opportunities and Limitations including Antisolvent Selection Dinesh Kumar , Associate Professor , NIPER, Ahmedabad , India</p>

12:20	<p>Reducing VOCs and Waste: Sustainable Solvent Management Strategies for Indian Plants Parikh Vrajesh , Executive Director Technical , Gujarat Alkalies and Chemicals Limited , India</p>
12:40	<p>Group Photograph</p>
13:00	<p>Lunch & Networking</p>
14:00	<p>Session 3- Catalyst Selection: Homogeneous, Heterogeneous & Biocatalysis as a solution Theme: Choosing the Right Catalyst for Industrial Feasibility</p>
14:05	<p>Catalyst Selection Strategies for Industrial Feasibility and Scale Up</p>
14:25	<p>Catalysts for Chiral Molecules: Designing for Selectivity and Yield Surendra Singh , Professor, Chemistry , University of Delhi , India</p>
14:45	<p>Biocatalysis and Challenges in Biocatalyst Use: Residual Protein, Filtration, and Purity Control Nagaraj Maddur , Principal Scientist II , Advanced Enzyme Technologies Limited , India</p>
15:05	<p>Tea Break</p>
15:20	<p>Session 4- Biocatalysis for Modern Industrial Chemistry Theme: The Fastest-Growing Catalyst Platform in India</p>
15:25	<p>Catalyst Selection Kits: Accelerating Route Discovery and Screening</p>
15:45	<p>Solvent Tolerance and Cofactor Recycling in Biocatalytic Systems T. Kumaraguru , Scientist-E , CSIR-IICT , India</p>
16:05	<p>Managing Solvent- Driven Catalyst Deactivation: Prevention, Monitoring, and Regeneration Strategies</p>
16:25	<p>Catalyst Reuse and Recycling: Economic and Technical Perspectives Ganapati V. Shanbhag , General Manager, Zeolite R&D , Tatva Chintan Pharma Chem Ltd. , India</p>
16:45	<p>Session 5- Solvent-Catalyst Synergy for High Efficiency Reactions Theme: Engineering Solvent Systems for Maximum Reuse</p>
16:50	<p>Designing the Ideal Reaction Environment: Solvent-Catalyst Co Optimization</p>
17:10	<p>AI Driven Prediction of Solvent-Catalyst Compatibility</p>
17:30	<p>Integrated Case Studies: Yield, Purity, and Cost Optimization in Scalable Systems Priyanshu B Vyas , Team Lead, Polymer R&D , Reliance Industries Limited , India</p>

17:50	<p>Panel Discussion: “Catalyst and Solvent Technologies Shaping the Future of Manufacturing”</p> <ul style="list-style-type: none"> • Which catalyst and solvent technologies will define the next decade of manufacturing • Emerging trends: biocatalysis, green solvents, DES, ILs, supported catalysts • How India can leapfrog by adopting next-gen reaction technologies early • Why biocatalysis is becoming essential for chiral molecules and green routes • Overcoming challenges: residual protein, enzyme stability, solvent tolerance • The role of catalyst selection kits and high-throughput enzyme screening • How Indian pharma can accelerate biocatalytic route adoption
17:50	<p>Closing Remarks & Vote of Thanks</p>
18:20	<p>Presentation of Academic Innovations through Digital Posters</p> <p>Digital Poster Presentations on Catalysis, Biocatalysis, Green solvents, Reaction engineering and Process intensification</p>
18:40	<p>Networking Dinner</p>