

EXCELLENCE

In-house Publication of

Chemtech
FOUNDATION
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50

CHEMTECH
FOUNDATION
1974-2024

Inspiring Intelligence...
..Igniting Innovation

Join us for 50th
Years Celebration

May 2024

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HIGHLIGHTS OF CHEMTECH WORLD EXPO 2024

750
EXHIBITORS
FROM 15+ COUNTRIES

25871
VISITORS
FROM 53 COUNTRIES

8
TECHNICAL
CONFERENCES

1500+
BUSINESS
DELEGATES

250+
GLOBAL
SPEAKERS

2500+
ENGINEERING PHARMA & SCIENCE STUDENTS AT
STUDENT OUTREACH PROGRAM
FROM 28 STATES & UNION TERRITORIES

SCALE@
CHEMTECH
World Expo 2024

60+ GLOBAL
CLIMATE TECH
STARTUPS
FROM 20 COUNTRIES
40 TECHNICAL
PRESENTATIONS

BRICS WORKING
GROUP
BRAIN
STORMING
SESSION

Bio
Pharma
World Expo 2024

BRICS LAW & POLICY
CENTRE
COMPETITION

ENSURING ACCESS TO BIOLOGICAL DRUGS
FOR THE DEVELOPING WORLD



INDIA- RUSSIA ROUND TABLE DISCUSSION

Half a Century of Service in uniting Industries for India's Growth and Economic Progress



Inauguration of ChemTECH World Expo 2024



More than 25,000 industry visitors from 53 countries attended the 4-day trade show to experience the display of the latest technologies by 750 exhibitors from 15 countries during ChemTECH World Expo 2024 held from 4th to 7th March 2024 at the Bombay Exhibition Centre,

Goregaon (East), Mumbai. The event marked the important milestone of half a century of Chemtech's service in uniting industries for India's growth and economic progress. Chemtech presented Leadership & Excellence Awards 2024 to recognize individuals and corporates for their contribution to India's chemical processing industries.

Bio
Pharma BRICS LAW & POLICY
CENTRE
COMPETITION
ENSURING ACCESS TO BIOLOGICAL DRUGS
FOR THE DEVELOPING WORLD



INDIA- RUSSIA ROUND
TABLE DISCUSSION



UPCOMING EVENTS

International Integrated **ENERGY** Exhibition & Conference

Oil Gas & Power
World Expo 2025

5-7 March 2025

Venue: Hall 4, Bombay Exhibition
Center, Goregaon (East),
Mumbai, India

EXHIBITORS AND BUSINESS VISITORS FROM 53 COUNTRIES



CHEMTECH Leadership & Excellence Awards 2024

Chemtech Honors Industry Icons in Chemical Processing & Beyond



(L to R) Padma Vibhushan Dr. R. A. Mashelkar, Chief Guest Mr Suresh Prabhu, Former Union Minister, Govt. of India – Chief Patron & Brand Ambassador ChemTECH World Expo 2024 and Mr Maulik Jasubhai, Chairman & Chief Executive, Chemtech & Jasubhai Media Pvt Ltd



Winners of Chemtech Leadership & Excellence Awards 2024

Hall of Fame



Dr Keki Gharda
Founder - Chairman & Managing
Director, Gharda Chemicals Ltd

Since 1983, CHEMTECH has been presenting Leadership & Excellence Awards to recognize priceless contribution of visionaries and technocrats which is paving the way for Indian chemical processing, pharmaceutical & biotechnology;

and allied service providers. These awards recognize the fact that each industry needs an icon to aspire to, to emulate, to strive, to excel, to chart a course that changes the destiny of many through service.

Lifetime Achievement



Mr M B Parekh
Chairman
Pidilite Industries Ltd.

Woman Achiever



Ms. Sukla Mistry
Director Refineries
Indian Oil Corporation Ltd.



Business Leader of the Year Specialty Chemicals



Mr. Salil Singhal
Chairman Emeritus
PI Industries Ltd

Outstanding Achievement Research & Innovation



Dr. Krishna Ella
Executive Chairman
Bharat Biotech

Business Leader of Year Refineries & Petrochemicals



Business Leader of Year - Refineries & Petrochemicals



Business Leader of the Year EPC Services



Mr. Subramanian Sarma
Wholtime Director & Sr. EVP
(Energy), Larsen & Toubro

Outstanding Achievement Start-up



Mr. Leo Mavelly
Founder & CEO,
Axio Biosolutions Ltd.

Business Leader of the Year Plant & Machinery



Business Leader of the Year ESG



Leaders Hail Chemtech for Contributions to the Industry



Mr Suresh Prabhu

Former Union Minister, Govt. of India & Chief Patron & Brand Ambassador, ChemTECH World Expo 2024

“Chemtech is an extraordinary and unique platform where industries from different parts of the world, particularly India, come together to display and demonstrate new developments and learn from each other in the chemical processing industry, which also includes EPC and other sectors. When I say 'unique,' I mean that I don't see any other similar event that provides such assistance in India or this part of the world.”



Ms Sukla Mistry

Director Refineries
IndianOil Corporation Ltd.

“With immense pride and a deep sense of responsibility, I address you today as the Chairperson of the Central Advisory Board for the Refining and Petrochemical World Expo 2024, under the ambitious and forward-looking theme of a sustainable energy landscape for the future downstream. As I stand before you, I am reminded of the words of Helen Keller, who said, 'Alone we can do so little; together we can do so much.' So today, we are together in this Expo, and we will be doing many more things in the future too. This gathering is a testament to the collective resolve and ambition that fills our industry's journey towards innovation, sustainability, and excellence. It is also a platform to reflect, innovate, and commit to a future that is not only prosperous but also sustainable.”



Dr Anil Kakodkar

Former Chairman Atomic Energy Commission of India and the Secretary to the Government of India

“I must compliment ChemTech Foundation for organizing this Student Outreach Program. Very meaningful activity for them on the golden jubilee year of the ChemTech Foundation. Congratulations to each one of you present here. Indians have no problem about accessing intelligence. I think we have probably the largest reservoir of intelligence. In fact so many Vikasit countries of the world are dependent on Indian talent for their progress and whatever has propelled them to their current stage.”



Mr Subramanian Sarma

Wholtime Director & Sr. EVP Energy,
Larsen & Toubro

“This year is very special as it marks the 50th year of celebration. A very nice platform has been built, attracting numerous leaders from various industries, including EPC, manufacturing, PSUs, and private sector organizations. This gathering allows us to exchange views, thoughts, and insights about how the industry is evolving, with significant technological advancements such as AI and digital technology, which are quite disruptive. It's a time to embrace change for the betterment of both individuals and organizations, contributing to the nation's growth, personal growth, and company growth, ultimately making India proud.”



Dr R A Mashelkar

Scientist, Former Director General, CSIR and Chairman Chemtech Leadership & Excellence Awards July 2024

“The programs that we are conducting include one of the most important programs, which is the outreach program for students. Can you believe it? There are 2500 students attending the event today, and I had the privilege to address them during the afternoon. The second part was about the startups. I looked at what they were doing, and it's incredible. It seems like nothing is impossible for them; it's as if the world doesn't exist. When people call me dangerously optimistic, I feel this way because of the youth scaling heights that have never been reached before.”



Mr B Narayan

Group President, Projects & Procurement,
Reliance Industries Ltd

“It's most appropriate for us to pay tribute to Mr. Jasu Shah, who founded the Chemtech Foundation 50 years ago, creating platforms for the exchange of ideas and technological discourses across diverse sectors. It's heartening and laudable that Mr. Maulik Shah is carrying forward Jasu Shah's legacy with the same vigor and zeal. Alongside the EPC conference, there will be seven other streams of conferences taking place simultaneously. It's also heartening to see the simultaneous setup of a student outreach program, which will be attended by almost 2,500 students. I'm sure they will benefit immensely from interactions with industry practitioners.”

EPC World Conference 2024

Roadmap to EPC Leadership: A Paradigm Shift



(L to R) Mr B Narayan, Group President, Procurement & Projects, RIL, Mr Suresh Prabhu, former Union Minister, Govt. of India & Chief Patron & Brand Ambassador ChemTECH World Expo 2024, Mr Maulik Jasubhai, Chairman & Chief Executive, Jasubhai Group & Chemtech Foundation & Mr Subramanian Sarma, Wholtime Director & Sr. EVP Energy, Larsen & Toubro



(L-R) Mr. Sameer Shirur, Group Manager-IT Delivery Management, Mr. Atul Paranjape, Head of Digital, L&T, Mr. R K Srivastava, Former CMD, ONGC Ltd., Mr. Raman Talwar, Founder & CEO, Simulanis, Mr. Projjal Maitra, Information & Digital Manager, India, Bechtel & Mr. Nilesh Sapte, Manager of Construction Bechtel India & Deputy Global Manager of Construction – Bechtel Infrastructure.



(L to R) Mr. Ajay Kumar Singh, ED, ONGC Ltd, Mr Vinayak Pai, MD, Tata Projects Ltd, Mr. Joydeep Choudhury, Executive Director (Projects), Indian Oil Corporation Ltd, Mr Sudhir Singh, Head Projects, Nayara Energy, Mr. Yoshiro Fukasaku, Global Director, Project Management, Ebara Elliott Energy, Mr Marc Bonandrini, Chief Commercial Officer, Petrofac & Mr. Subramanian Sarma- Wholtime Director & Sr. EVP Energy, Larsen & Toubro Limited

CONFERENCE SESSIONS

EPC Challenges & Transformation

Enabling Policies, Regulations To Develop Healthy Eco-System

Digital Technologies & Managing Technology Disruption Risks

Energy Transition

EPC for Midsize Projects

India is currently undergoing a significant energy transition, marked by a pivot towards renewable energy sources and sustainable practices. In response to this shift, EPC companies must adapt by enhancing their capabilities in renewable energy projects, energy efficiency solutions, and green technologies. However, the EPC industry is currently grappling with various challenges, including project delays, cost overruns, and quality issues. The one-and-a-half-day EPC conference titled "Roadmap to EPC Leadership - A Paradigm Shift," brought together stakeholders from the community of project management to deliberate upon key issues hindering the progress of the EPC industry, which in turn impacts industrial development and economic growth.



(L-R) Mr. Atul Paranjape, Head of Digital, L&T & Mr. R K Srivastava, Former CMD, ONGC Ltd.

SCALE @ CHEMTECH World Expo 2024

SCALE: B2B Platform Connecting Climate Tech Startups with Indian Ecosystem



(L to R) Mr Maulik Jasubhai, Chairman & Chief Executive, Jasubhai Group & Chemtech Foundation, Mrs Ira Maulik, Director, Jasubhai Group, Mrs Aarti Gogri, Owner, Aarti Industries Ltd, Mr Mirik Gogri, Head of Corporate Strategy, Aarti Industries Ltd, Dr. Gaurav Sant, Professor & Pritzker Chair in Sustainability, UCLA & Mr Rajendra Gogri, CMD, Aarti Industries Ltd. lighting the lamp to launch SCALE

Chemtech launched SCALE, an exclusive B2B platform for the global climate tech start-ups & industry stakeholders to form collaborative partnerships. The purpose of the platform was to engage the start-ups with the Indian ecosystem viz. cost competitive manufacturers, engineering service providers and the solution seekers to scale up the innovations in India to address the climate crisis in India and the Global South. More than 60 start

ups (including 20 international from USA, Europe, Singapore & Australia) presented cutting edge global technologies solving the Climate Crisis in an exclusive SCALE Pavilion. During 4 days of tradeshow, the start-ups engaged with the industry stakeholders to explore synergistic partnerships. 40 innovators presented their start up pitch during the 3 days of parallel conference to explore opportunities to collaborate to and synergistic partnerships with Indian companies.



SCALE Pavilion

CONFERENCE SESSIONS
Baseload Clean Energy/ Coal Plant Reuse and Industrial Heat
Long Duration Energy Storage
Solar
Renewable Chemicals
CCUS
Hydrogen
Resource Efficiency (Water & Energy efficiency) Cement
AgriTech
Biomass value creation
Fertilizers & Ammonia
Chemical Recycling



Padma Vibhushan Dr Anil Kakodkar
Former Chairman, Atomic Energy Commission of India and the Secretary to the Government of India launched SCALE as the Chief Guest



Delegates attend the conference

"As of today, SCALE is India's only climate-tech event that brings the world's most cutting-edge climate innovations under one roof. Each stakeholder in the climate-tech ecosystem has something to take away from the event. For me personally, I met many Indian climate-tech startups whom I had only interacted on zoom previously. I also got to hear from exceptional global climate-tech founders."

Johann Fernandes
ClimateXCapital, India

"SCALE helped us to explore the quality opportunities in Indian market and build new manufacturing and customer connections. This would have taken lot of resources and time if we were to do it ourselves as a foreign startup trying to expand to India. With SCALE, we were able to accomplish more than what we had planned in just 3 days. For a deep tech materials startup, identifying new applications, producing faster and cheaper at SCALE are very crucial. We appreciate the quality of the attendees. In fact, several folks were brainstorming new possibilities with our core technology which we had not thought about. According to IEA, by 2050, almost half of the solution to global emission will come from technologies that are currently in prototype or demonstration phase. It's very important to support such technologies now. We believe that in the future, SCALE will grow to play an important role in identifying the right challenges, connecting the right stakeholders and scaling the right solutions to tackle global climate tech challenges."

Dr. Gayathri Natarajan
CEO, Krosslinker, Singapore

"Our team was blown away by the quality and quantity of climate innovation in India. SCALE was a phenomenal way to quickly connect with leaders across the Indian climate ecosystem. Attendees were engaged and speakers were thoughtfully curated. We look forward to attending in future years!"

Jeremy Brewer
Managing Partner, Starshot Capital, USA

"Thanking for inviting us to SCALE and congratulate the team for how well the event went! SCALE 24 had an outstanding array of speakers, particularly innovators, from across the world, delivering high quality and relevant content. It has set a new bar for Indian climate conferences. It was such a great collection of startups and other super relevant stakeholders in the industry. The other events around SCALE were also super well curated and the overall experience was quite enriching, for almost everyone in the ecosystem I imagine. On behalf of D3 - thanks again."

Chetan Krishna
Head of Research & Diligence
Third Derivative, Singapore

"Very well-organized event with a wide range of relevant attendees. Our experience was excellent and resulted in excellent engagement with potential clients, investors, employees, and industry advisors."

Alex Hall
CEO, Concrete AI, USA

"I had a blast at SCALE 24! The event was so well organized with a lot of thought put into the talks and networking event. Being able to wander into the ChemTECH pavilion was very helpful as it allowed me to see the nuts and bolts of industry and the prowess of process and momentum that Indian manufacturing has achieved. Seeing startups, academics, vendors, partnership forums, and corporate clients, and VCs right next to startups is commendable. Makes one think how hard such a gathering is in Silicon Valley!"

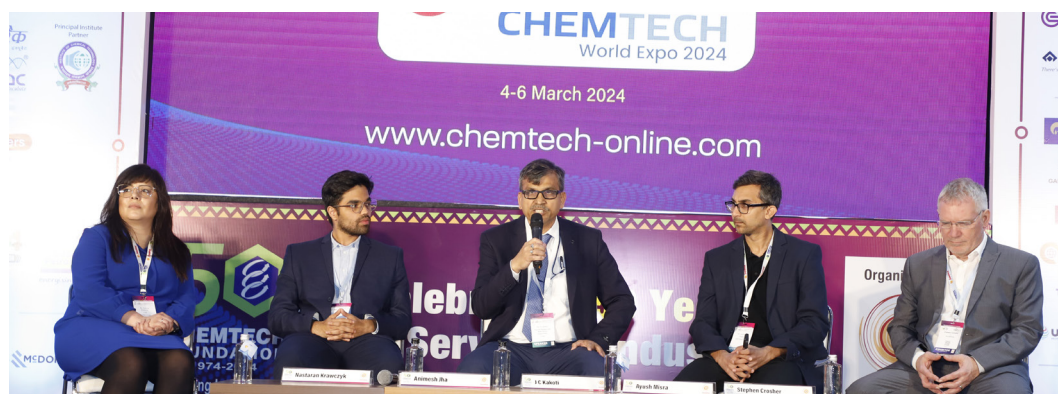
Parikshit Sharma
Partner, IndieBio's SOSV, USA

"Just wanted to share how much value I have already got out of the conference. I have been able to level up my industry knowledge, and prospective customers have been very open to sharing what they are looking for in a retrofit. A customer also expressed interest in using our catalyst once scaled up, to boost one of their old semi-operational ammonia plants."

Aruna Ramakrishnan
CTO, Copernic Catalysts, USA

"Thank you again for giving us the opportunity to attend and present at SCALE and to visit Aarti's R&D Center. I came away very impressed by the breadth of innovative technologies you're engaged in and are supporting, and we look forward to more collaborations."

Markus Lesemann
Sr. Director, Business Development,
GTI Energy USA



(L-R) Ms. Nastaran Krawczyk, CTO, CMBlu Energy, Mr. Animesh Jha, Founder, Volt14 Solutions, Mr. J C Kakoti, General Manager and HOD (Hydro Engineering), NTPC, Mr. Ayush Misra, Founder, Amperehour Energy & Mr. Stephen Crosher, CEO, RheEnergise Ltd.

Student Outreach Program: 'Develop Future Leaders'



(L to R) Mr R K Srivastava, former CMD, ONGC Ltd & Chemtech Core Committee Member inaugurating Student Outreach Program 2024, Padma Vibhushan Dr Anil Kakodkar Former Chairman Atomic Energy Commission of India and the Secretary to the Government of India, Mr Nadir Godrej, CMD, Godrej Industries Ltd, Mr Hemant Shetty, CEO, Chemtech & Jasubhai Media Pvt Ltd, & Prof (Dr) A B Pandit, VC, ICT – Mumbai & Chairman SOP 2024



Presenting Memento to Guest of Honour for SOP '24 : Padma Vibhushan Dr R A Mashelkar, Chancellor, ICT Mumbai. (L-R) : Mr. Hemant Shetty, CEO Jasubhai Media Pvt Ltd & Chemtech Foundation, Padma Vibhushan Dr RA Mashelkar, Mr. UK Bhattacharya, Former Director (Projects) NTPC Ltd

Mentorship & Internship Support



Chemtech hosted more than 2500 students of engineering, pharma, biosciences, biotechnology & sciences from 101 institutes across 28 states & union territories during ChemTECH World Expo 2024 for 3 days of 'Student Outreach Program (SOP)' under the guidance of Prof. (Dr.) AB Pandit, Vice Chancellor of ICT Mumbai as the Chairmanship SOP 2024. Students received immense support from the technical experts for initiatives of innovation pavilion, internship program, technical paper presentations and poster competition. 216 students participated in the Student Innovation Pavilion to present 54 solutions to the industry defined problems developed under the mentorship of technical experts from 11 leading companies across Refining, EPC & chemical manufacturing over a period of 3-4 months. 150 students presented original research papers to the jury of academicians that are currently under review and selected papers will be published in 'Indian Chemical Engineer' International Peer Reviewed Research Journal in FutureChem Special January 2025 Issue. Students of biotechnology & biosciences presented 40 posters on their learnings on latest trends in biotechnology. 28 companies across EPC, Refining, Specialty & Biopharma supported the internship program to hire the students to offer hands on industry experience.



Magsaysay Award & Stockholm Water Prize Winner, Mr. Rajendra Singh also known as Waterman of India delivering motivational talk about Water Conservation on Day 3 of Icon Lectures at SOP '24



Mr Suresh Prabhu, Former Union Minister, Govt. of India & Chief Patron & Brand Ambassador, ChemTECH World Expo 2024



Dr Rajesh Gokhale, Secretary, DBT, Ministry of Science & Technology, Govt. of India

SOLUTIONS PRESENTED BY STUDENTS FOR INDUSTRY DEFINED PROBLEMS

Mitigating Lower (NPSH) _a for Coke Cutting Pumps
Performance Evaluation of Natural Gas Fired Steam Boiler at turndown conditions
Develop a tool / spreadsheet to predict scaling / fouling for a given chemistry of circulating cooling water
Heat Pump Concept to Commissioning
Enhancing Throughput in the Depropanizer System with Minimal Modifications
Innovative Piping Support System Design
Automation of Pipe Rack Structure using VBA with Open STAAD
Emerging technologies in data centres for Temperature Management
Extraction of Microcrystalline Bio-Silica from Boiler Ash of Sugarcane Industry
Suitable Process for Production of Polyols (Monopropylene Glycol)
Desalination Plant Design for Mumbai Refinery
Debottlenecking hydrotreating capacity in Visakh Refinery
Green Energy Solutions for Refinery
Desalter limitation in Mumbai Refinery
Integration of Renewable Diesel / Sustainable Aviation Fuel Plant with Refinery
Integration of Renewable Diesel / Sustainable Aviation Plant with Refinery & utilizing Biowaste generated in Bio-gas plant
Energy Benchmarking Methodologies for Refinery complexes
Mitigating methyl iodide emissions using scrubber column
Maximizing LVGO yield from Vacuum Distillation Column
SAF production technologies from bio feedstock and economic evaluation of pathways
Design and Optimization of Sour Water System
Efficiency optimisation of a thermal oil heating system by using pinch analysis
Efficiency optimisation of a heating plant consisting of thermal oil heater and steam boiler
Development of a boiler predictive model using data-driven and machine learning
Design of HCL Scrubbing System for HCL fumes from Storage
Determining the Design Conditions of Recycle Gas Compressor Loop
Size the pump based on the data given and carry out the pump hydraulics for 4 & 6 cSt case from HMB
Design of Electrical Load List and Key SLDS for 1 GW Green Hydrogen Plant



Specialty Chemicals Conference 2024

Role of Specialty Chemicals in Catalyzing a Sustainable Future



(L to R): Mr Hemant Shetty, CEO, Chemtech & Jasubhai Media Pvt Ltd, Mr. Rajendra Gogri, CMD, Aarti Industries Ltd, Mr. Petr Pudil, Chairman of Board, Draslovka AS, Mr. Nadir Godrej, CMD, Godrej Industries Ltd & Mr. Artur Smirnov, Director of the Chemical Industry Department, Ministry of Industry and Trade of the Russian Federation at lighting the lamp to inaugurate Specialty Chemicals conference.



(L to R) Mr. Saurabh Khedekar, President and CEO - Specialty Aluminas & Chemicals , Hindalco Industries Limited presenting the Keynote Address, Mr. Anurag Jain, President & CEO (Specialty Chemicals) , SRF Ltd, Dr. Raman Ramachandran, Director & Dean, KJ Somaiya Institute of Management, Mr. Gurpreet Chhatwal, Managing Director , CRISIL Ratings, on the dais.



(L to R) Dr. Jitendra Kumar, Managing Director, BIRAC Department of Biotechnology, Government of India, Dr. Ashish Lele, Director , CSIR – NCL Pune, Prof (Dr) A B Pandit, Vice Chancellor , Institute of Chemical Technology, Mumbai, Mr. Rajendra Gogri , CMD, Aarti Industries Ltd, Ms. Aashish Kasad, Partner, National Leader-Chemical and Agriculture sector, India D&I Leader, EY LLP and Dr. Raman Ramachandran , Director & Dean, KJ Somaiya Institute of Management during the panel discussion 'India First : Transitioning From Current Challenges to Capitalizing the Future'

CONFERENCE SESSIONS

FMCG Industry
Textiles , Dyes & Pigments
Agrochemicals : India's Global Prominence in Export
Decarbonization
Innovations & Digitalization
Emerging Opportunities for Specialty Chemical Manufacturers
India First: Transitioning from Current Challenges to Capitalizing the Future

Within the domain of Indian specialty chemicals, the prospect of evolving from a follower to a leader is plausible. Reliable supply chains, innovation, sustainability, and meeting diverse consumer needs are pivotal for industry success. Subject matter experts delved into the topics of high interest in the conference 'Role of Specialty Chemicals in Catalyzing a Sustainable Future' to understand evolving end user industry expectations and explore pathways for sustainable future growth.



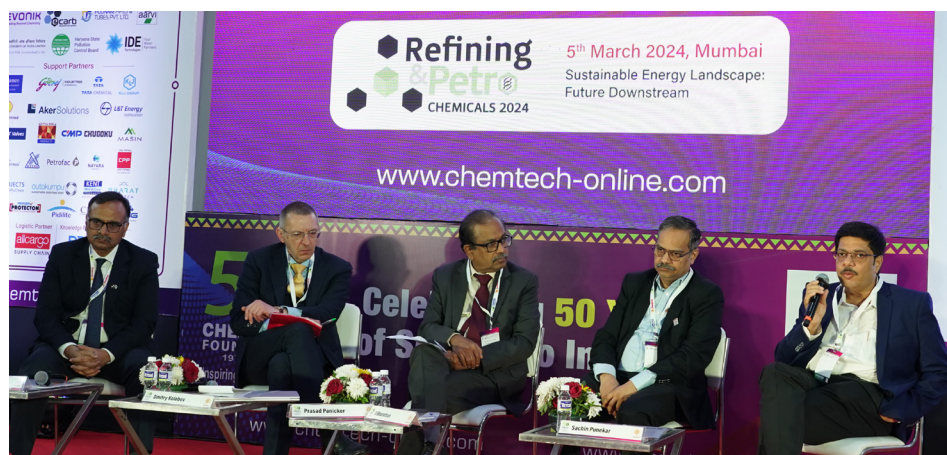
Mr. Nadir Godrej,
CMD, Godrej Industries Ltd

Refining & Petrochemicals Conference 2024

Sustainable Energy Landscape: Future Downstream



(L to R) Mr. P D Samudra, Independent Director; Deepak Nitrite & past CEO/MD thyssenkrupp Uhde India, Ms. Sukla Mistry, Director (Refineries), IOCL, Mr Maulik Jasubhai, Chairman & Chief Executive, Jasubhai Group & Chemtech Foundation & Mr. Abhai Raj Singh Bhandari, Executive Director, Mumbai Refinery, Bharat Petroleum Corporation Ltd inaugurate Refining & Petrochemicals conference



(L to R) Mr U K Verma, ED – Process, Engineers India Ltd, Mr. Dmitry Kolobov, Managing Director, AO RusGasDobycha, Mr Prasad Panicker, Chairman & Head of Refinery, Nayara Energy, Mr S Bharathan, Director Refineries, HPCL, Mr Sachin Punekar, President, Group Manufacturing Services, Reliance Industries Ltd during panel discussion 'Future Refining – Petrochemical Integration & Process Intensification'



CONFERENCE SESSIONS

- Future Refining : Petrochemical Integration & Process Intensification
- Special Address by Mr Sarthak Behuria, Chairman, Reliance BP Mobility Ltd.
- Green Hydrogen Adaption Opportunities & Challenges : Indian Scenario
- Process Innovations in Bio-Fuels
- Digital Transformation Across the Downstream Value Chain for Sustainable Growth
- Practical Approach For India to Achieve Net Zero Through CCUS & Other Pathways

The Refining & Petrochemicals Industry makes an undeniable contribution to both national and global economies. Despite the significant challenges presented by the energy transition, it also offers opportunities for those willing to adapt and innovate. Discussions in the conference 'Sustainable Energy Landscape - Future Downstream' underscored the complex interplay between technological innovation, market dynamics, environmental sustainability, and strategic partnerships in shaping the future of refining and petrochemical integration in India.



Mr Sarthak Behuria, Chairman, Reliance Jio Mobility Ltd presented Special Address to the distinguished audience.

BioPharma World Expo Conference 2024

Navigating the Path to Leadership in Biopharma Excellence



(L to R) Guest of Honour Dr Krishna Ella , Executive Chairman, Bharat Biotech International Ltd, Prof (Dr) Samir Kulkarni , Head, Department of Biological Sciences & Biotechnology, Coordinator, DBT – ICT Centre, Dr Rajesh Gokhale, Secretary , DBT, Ministry of Science & Technology, Govt. of India & Chief Guest, Mr Suresh Prabhu Former Union Minister, Govt. of India & Chief Patron & Brand Ambassador, ChemTECH World Expo 2024



(L to R) Dr Harish Iyer, Director, Bill & Melinda Gates Foundation, Mr Ramaswamy Lakshmanan, MD, Sotax India Pvt Ltd., Dr. Ujwala V. Salvi PhD, Founder, CEO & Head of Clinical Operations, Nucleon Research Pvt. Ltd, Dr Mahesh Bhalgat, Group CEO, Veeda Clinical Research , Mr. Jayant Kumar, Asst Drugs Controller(I), CDSCO, Dr Subrahmanyam Vangala - CEO - ReaGene Biosciences during the panel discussion Making India Bio-Pharmacy of World



(L to R) Mr. Anand Khedkar, Director, Sekkei Bio, Dr. Khaudeja Bano, Vice President, Amgen Inc., Dr. Preeti Nigam Joshi, Founder - FastSense Diagnostics Pvt Ltd. & Dr. Ravindra Patel, Founder and Chief Technical Officer, OmniBRX.

CONFERENCE SESSIONS

Unmet Needs & Challenges
Technology Advancements & Emerging Areas
R&D Innovations & Start Up Success Stories
Biopharma Ecosystem
AI in Biopharma
Making India Biopharmacy of World: India's Role in Enabling Access of Biologics to the World
BRICS Roundtable : Ensuring Access to Biological Drugs for the Developing World

The Indian Pharma industry, in collaboration with the government, has undergone massive transformation. Taking cognizance of India being projected as hub for BioPharma, the discussions provided the attendees with actionable insights, strategic perspectives, and practical knowledge to navigate the evolving landscape of biopharma and position themselves as leaders in excellence within the industry.

Additionally, Chemtech hosted the workshop 'Ensuring Access to Biological Drugs for Developing World' in partnership with BRICS Law & Policy Competition Centre & Federal Antimonopoly Service of the Russian Federation with the support of ICT Mumbai during the event.



Dr. Harish Iyer, Director, Bill & Melinda Gates Foundation & Dr. Mahesh Bhalgat, MD, Veeda Clinical Research.

Chlor-Alkali World Conference 2024

Nurturing Sustainability - Empowering Future



Lighting the lamp- Mr. P D Samudra, Independent Director, Deepak Nitrite & past CEO/ MD thyssenkrupp Uhde India & Mr. Hemant Shetty, CEO, Chemtech & Jasubhai Media Pvt Ltd., Mr. Jayant Dhobley, Business Head & CEO, Chemicals, Aditya Birla Group, Mr. Alexander Gerding, Managing Director, BASF India.



(L to R) Mr Hemant Shetty, CEO, Chemtech & Jasubhai Media Pvt Ltd., Mr. Jayant Dhobley, Business Head & CEO Chemicals, Aditya Birla Group presenting Welcome Address, Guest of Honour - Mr Alexander Gerding, Managing Director, BASF India & Mr. P D Samudra, Independent Director, Deepak Nitrite & past CEO/MD thyssenkrupp Uhde India on the dais at the inauguration of Chloralkali Conference



(L to R) Mr. P D Samudra, Independent Director, Deepak Nitrite & past MD & CEO, thyssenkrupp Uhde India, Mr Hemant Shetty, CEO, Chemtech & Jasubhai Media Pvt Ltd., Mr Rajju Shroff, CMD, UPL Ltd., Mrs Sandra Shroff, Vice Chairman, UPL Ltd, Mr Rajendra Gogri, CMD, Aarti Industries Ltd, Mr Ashwin Shroff, CMD, Excel Industries Ltd, & Mr. Jayant Dhobley, Business Head & CEO Chemicals, Aditya Birla Group

CONFERENCE SESSIONS

Global Market Trends in Chloralkali Industries
Developments in Renewable Power
Downstream Utilization & Vinyl Chain
Sustainability & Safety
Technology Development

The Chloralkali industry serves as a cornerstone, providing essential building blocks for a vast array of chemicals and products that underpin numerous sectors. Currently India's share in global mix stands at 5-6% and has low per capita consumption which signifies sufficient head room for growth of this industry. The one-and-a-half-day conference provided valuable insights into the latest advancements in the global chloralkali market, with a particular focus on understanding the current demand-supply imbalance.



Mr. Alexander Gerding, Managing Director, BASF India.



(L-R) Mr. Rajeev Kumar, President - Bulk & Intermediate Chemicals, Atul Ltd.& Mr. Yogesh Gujarati, General Manager - Process Design & Export marketing, Graphite India Ltd.

Industry Automation & Control + Pumps Valves & Fittings Conference 2024

Furthering Net Zero: Digital Transformation



(L to R) Mr Rajeev Mathur, Director, HCG Group & member Chemtech Core Committee, Mr Rajeev Gupta, Director Projects, Engineers India Ltd & Mr Ashish Dwivedi, CEO – Birla White, Aditya Birla Group at inaugural session of IAC & PVF Conference 2024



(L to R) Ms. Sunita Devi, Group Lead for Open Process Automation, Reliance Industries Ltd, Mr. Gangadhar Krishnamoorthy, Associate Partner, KPMG, Mr John Rodrigues, Digital Transformation Leader, Emerson India., Mr. Irfan Yunus, Vice President - Global Chemicals Segment, Schneider Electric & Mr. Murli Balasubramanian, Senior Principal Instrumentation & Controls Engineer, ExxonMobil Asia Pacific Private Ltd during the panel discussion on Open Process Automation



(L to R) Mr Mohan B Mate, General Manager Manufacturing, BPCL, Mr Rajeev Mathur, Director, HCG Group & Member Chemtech Core Committee, Mr. Rajeev Gupta, Vice President, Advance Valves & Mr. Atul Raje, Managing Director, Samson Controls Pvt. Ltd during panel discussion Make in India for Pumps Valves & Fittings

CONFERENCE SESSIONS

Digital / Engineering Twins for Advanced Simulation For Process Optimization

Panel Discussion:

Open Process Automation

Innovations in Control Systems & Process Automation to Achieve Net Zero

Cybersecurity & Data Integrity In Industrial Automation

Smart Manufacturing, Remote Monitoring & Condition-Based Maintenance

Panel Discussion: Make In India : Industry Expectations from PVF Manufacturers

The conference captured the essence of the event by highlighting the pivotal role of digitalization and automation in driving progress and efficiency across the industrial landscape. Taking cognizance of how digital transformation is changing the way industries operate, optimize processes, and utilize pumps, valves, and fittings, the discussions were aligned to encapsulate the integration of cutting-edge digitalization and automation trends with these pivotal components (pumps valves & fittings) catering to the interests and concerns of the chemical manufacturing sector, EPCs and OEMs to ensure operational excellence & foster innovation.



Mr R K Srivastava, Former Director Exploration, ONGC & Chemtech Core Committee Member welcoming Mr Anil V Parab, Wholetime Director & Sr. EVP (Heavy Engineering & Valves), Larsen & Toubro

WaterEX World Expo Conference 2024

Water: Securing Sustainable Life & Economic Development



(L to R) Mr Maulik Jasubhai, Chairman & Chief Executive, Chemtech & Jasubhai Media Pvt Ltd, Mr P Raghavendra Rao (Retd. IAS), Chairman, Haryana Pollution Control Board, Mr Ajay Popat, President, Ion Exchange (India) Ltd, Convener, WaterEX World Expo 2024, Chief Guest Mr Suresh Prabhu. Former Union Minister, Govt. of India – Chief Patron & Brand Ambassador ChemTECH World Expo 2024 and Guest of Honour Padma Shri Dr Rajendra Singh - 'The Waterman of India'- Chairman, Tarun Bharat Sangh.



(L-R) Dr. Shantanu Dutta – Member Secretary, Assam Pollution Control Board, Mr. Santosh Hegde, Senior Business Leader - Pharma & Chemicals, Veolia Water Technologies & Solutions, Mr. Ajay Popat, President, Ion Exchange (India) Ltd., Dr. Arup Misra, Chairman, Assam Pollution Control Board & Mr. Ravi Kiran Lad, HOD Engineering, Thermax Global



(L-R) Mr. Lalit Vashista, Managing Director, Diva Envitec Pvt. Ltd., Mr. Nayan Shah, Sales Director, IDE Technologies, India, Mr. Vinit Jagtap, Business Head, Outokumpu, Mr. Suryam Kasibhatla, Vice President, Reliance Industries Ltd., Prof Robin K Datta, Tezpur University, & Dr. Prerna Goradia, Founder & CEO, Exosome

CONFERENCE SESSIONS

Panel Discussion: Alternate Sources Of Water

Panel Discussion: Waste To Resources

Technology Advancements In Water Treatment

Panel Discussion: Emerging Contaminants, Standards & Solutions

The total water demand in India is projected to increase by 22% and 32% in 2025 and 2050 respectively and, by 2050, 85% of this demand is expected to come from industrial and domestic sectors alone. Given the fact that India is currently a huge market for water & wastewater treatment technologies to treat municipal & Industrial effluents. Experts deliberated on the long term vision for wastewater management in India. The discussions revolved around technology selection examined areas such as desalination, wastewater treatment, and greywater recycling.



(L-R) Mr. B. B. Singh, Director – Sales (APAC), Water, NSF & Dr. Shantanu Dutta – Member Secretary, Assam Pollution Control Board



Surface Engineering, Coating & Corrosion Control 2024 Innovation & Best Practices for Corrosion Mitigation



(L to R) Mr. U K Bhattacharya, Former Director Projects NTPC Limited, Mr. C Mathavan, ED-Western Offshore, ONGC, Mr B Narayan- Group President- Procurements & Projects Reliance Industries; Mr. Ranjay Sharan, Director Projects, Nuclear Power Corporation Limited, Mr. D N Badarinarayan, Executive Director (Engg & Projects), Indian Oil Corporation Limited, Mr. K.L. Batra, Advisor, Chugoku Paints India Limited; Mr. Rajiv Mathur, Director Haryana City Group.



(L to R) Mr. Shekhar Joshi, MD, Chugoku India Pvt Ltd., Mr. C Mathavan, ED-Western Offshore, ONGC, Dr. R. Tewari, Head of Division – Materials Group, Materials Science Division, Bhabha Atomic Research Centre & Mr. T. S. Kathayat, President & Global Operation Head - Pipe Business, Welspun Corp. Ltd.



(L-R) Ms. Mugdha Joshi Kale, Head - Operations, Insight Quality Services, Ms. Niharika Kolte Alekar, Founder, Volar Alta, Mr. Sanjay Chowdhury, Vice President- Business Head-Protecton, Berger Paints India Ltd, & Mr. Abhishek Agrawal, Head, Product Application Group, Tata Steel & Professor S Parida, IIT Mumbai

CONFERENCE SESSIONS

Innovations & Specifications
Case Study Presentations: User Perspective
New Technologies & Solutions
Innovation & Best Practices for Corrosion Mitigation

Corrosion represents one of the most significant challenges across energy, infrastructure, and downstream chemical processing industries due to the associated risks to people, the environment, and process plants. Driven by economic growth, these sectors are experiencing a robust surge in both Greenfield projects and Brownfield capacity expansions. Corrosion and its mitigation pose substantial costs to the industry.

Surface Engineering, Coating & Corrosion Control Technical Conference saw strong participation of Industry Experts from energy & downstream chemical processing industries, EPCs, Process plant & equipment, manufacturing and corrosion mitigation solution providers. Experts discussed crucial aspects of effective material selection, influence of joining processes on material behaviour for cost-effective construction for long-term operation of assets.



(L-R) Dr. R. Tewari, Head of Division – Materials Group, Materials Science Division, Bhabha Atomic Research Centre & Mr. U K Bhattacharya, Former Director Projects, NTPC, Limited, ChemTECH Core Committee Member

CHEMTECH WORLD EXPO 2024



SCALE Pavilion



VISITORS



German Pavilion



International Pavilion



Russian Pavilion

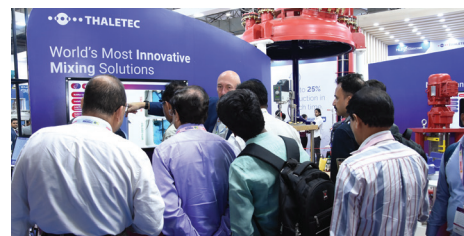


Iran Pavilion

INTERNATIONAL PAVILION & EXHIBITORS 15 + COUNTRIES



25000+ Business Visitors from 53 countries



Oil Gas & Power

World Expo 2025

5-7 March 2025

Venue: Hall 4, Bombay Exhibition Center, Goregaon (East), Mumbai, India



Leaders of Oil Gas & Power World Expo 2025



Mr. Pankaj Kumar
Director (Production)
ONGC Limited & Chairman
Oil & Gas World Expo 2025



Mr. Rajeev Kumar Singhal
Director Business Development
GAIL Ltd & Chairman
Gas World Tech Expo 2025



Mr. N Senthil Kumar
Director (Pipelines)
Indian Oil Corporation & Chairman,
Surface Engineering Coating &
Corrosion Control 2025



Mr. K. Shanmugha Sundaram
Director Projects
NTPC Ltd. & Chairman,
Power World Expo 2025



Mr. Alok Sharma
Director (R&D)
Indian Oil Corporation Ltd.
Chairman CAB
Hydrogen & Green Energy 2025



Mr. Ranjay Sharan
Director Projects
Nuclear Power Corporation Ltd &
Chairman, Nuclear Energy World
Expo 2025



Mr. A K Jha
Former CMD, NTPC Ltd
Convener
Power World Expo 2025



Mr. U K Bhattacharya
Former Director Projects,
NTPC Ltd. & Patron,
Power World Expo 2025



Mr. R K Srivastava
Former Director Exploration & Addl
Charge- CMD, ONGC Limited &
Convener
Oil & Gas World Expo 2025



Mr. Rajeev Mathur
Director, Haryana City Group &
Convener
Gas World Tech Expo 2025

CONCURRENT CONFERENCES

- Oil & Gas
- Natural Gas & LNG
- Refining & Petrochemicals
- Power & Coal
- Nuclear Energy
- Shipping, Marine & Ports
- Surface Engineering Coating & Corrosion Control
- Student Outreach Program

FACTS AND FIGURES OIL GAS & POWER 2023



3
DAY
TRADESHOW



201
EXHIBITORS & PARTNERS



8897
VISITORS FROM
28 COUNTRIES



192
VIP GUESTS



5
CONFERENCES



853
DELEGATES



147
SPEAKERS



670
ENGINEERING UNDERGRADS
FROM 23 COLLEGES ACROSS INDIA

EXHIBITOR GROUPS

OIL & GAS

- Exploration & Production
- Oil Field Services
- Geographical and Seismic Surveys
- Drilling
- Sub Sea
- Transportation Storage & Infrastructure

NATURAL GAS & LNG

- Natural Gas Marketing
- City Gas Distribution
- Transportation & Storage Infrastructure

REFINING

- Oil Refining
- Marketing
- Petrochemicals Manufacturing
- Technology Licensors

POWER

- Power Generation
- Technology Licensors

- Power Transmission & Distribution
- Infrastructure

CLEAN ENERGY

- Renewables – Solar Wind & Hydro
- Hydrogen
- Biofuels
- Methanol
- Nuclear

ENGINEERING SERVICES

- EPC services
- Project Management Consultants
- Engineering Services
- Construction

SHIPPING MARINE & PORTS

- Shipping Services
- Ports
- Inland water ways
- Transportation Warehousing
- Supply Chain Management

- Material Handling & Supply Chain Management
- Logistics Services

CORROSION CONTROL

- Surface Engineering
- New metallurgies
- Industrial Coatings
- Corrosion Control Technologies & Services

PROCESS PLANTS & PLANT EQUIPMENT

- Distillation Columns
- Reactors
- Heat Exchangers, Cooling Towers & Boilers
- Storage Tanks
- Compressors, Pumps & Valves
- Plant instrumentation & automation
- IT Infrastructure & Digital Technologies

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