

4th edition

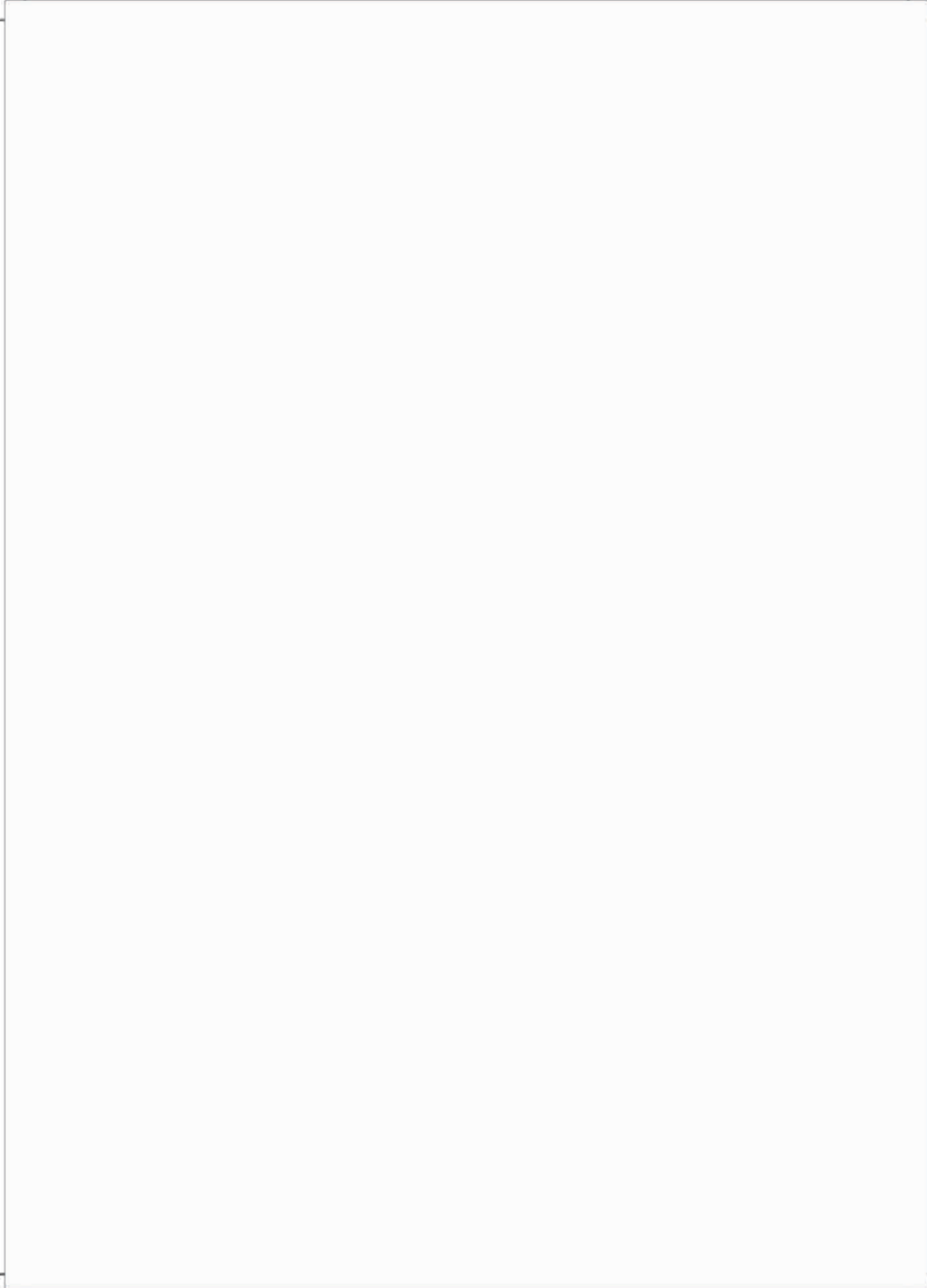
DExperts ConclaveTM
Distillation

12 & 13 October 2023

Radisson Blu Mumbai International Airport

**BRINGING TOGETHER THE
GLOBAL DISTILLATION
EXPERTISE**

www.distillationconclave.com



About

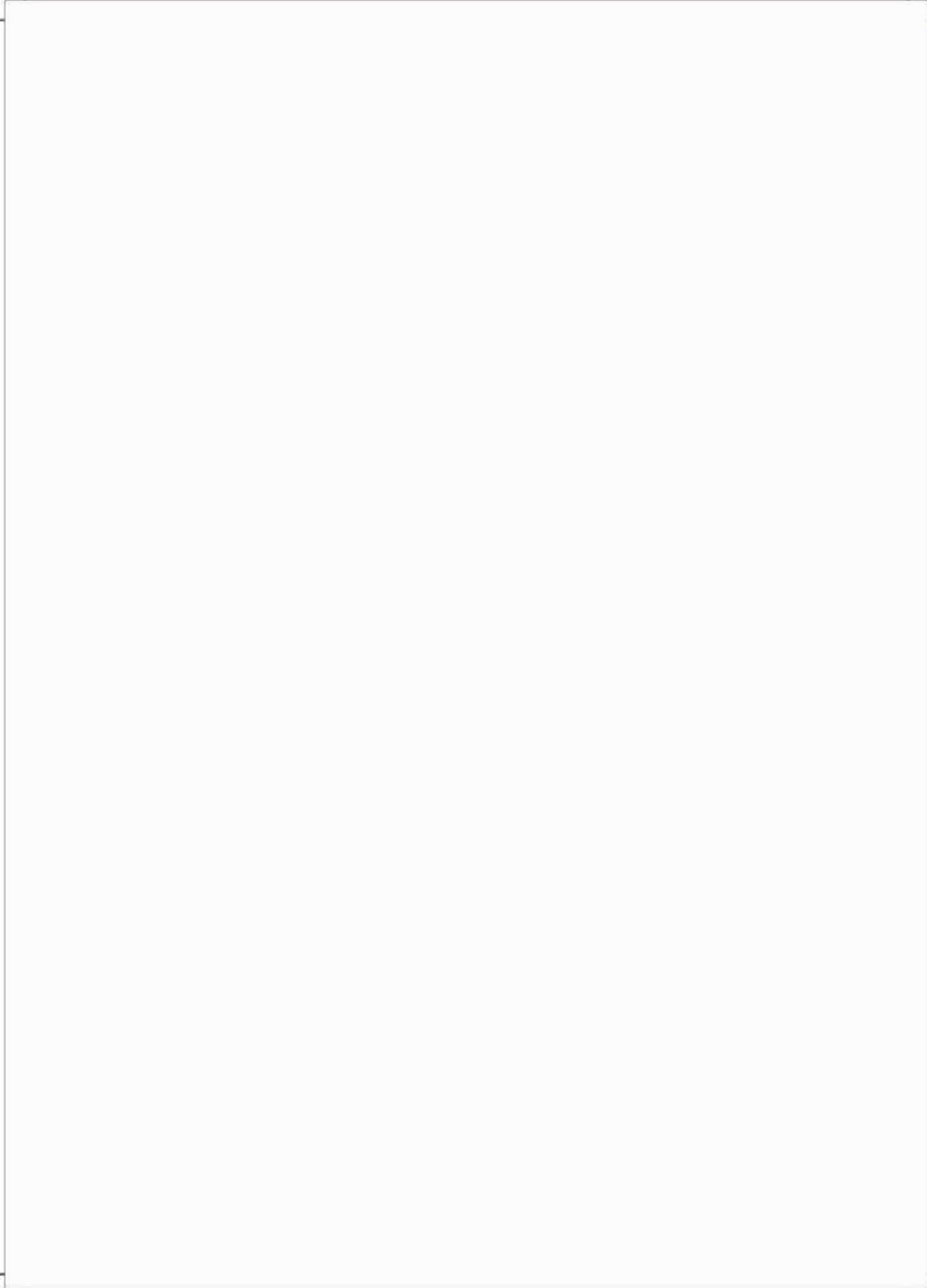
Distillation Experts Conclave

The **Distillation Experts Conclave (Di.Ex)** is organized by **Three Ten Initiative Technologies LLP**. The primary objective is to unite global distillation experts in the South Asian region, offering a valuable forum for professionals in chemical, petrochemical, refining, oil & gas, and pharmaceutical industries to collaborate and benefit from collective knowledge. Following the success of the first three Di.Ex editions, the fourth edition is scheduled to take place in Mumbai in 2023.

Di.Ex gathers participants from both the public and private sector, including chemical, petrochemical, refining, oil & gas, licensors, engineering firms, column internals manufacturers, control and instrumentation companies, testing agencies, and research organizations. The conclave's focal points encompass issues specific to the South Asian region, ranging from process design, optimization, and operations to greenfield and brownfield projects, incident investigations, analytical techniques, and the outcomes of troubleshooting efforts.

Di.Ex. is meticulously designed to foster a high level of technical knowledge exchange among its attendees. This conference's significance lies in the fact that distillation stands as the predominant separation technology across various manufacturing industries. Moreover, distillation units account for a substantial portion of energy consumption, with some estimates indicating they use up to 50% of the total heating energy in the process industries. Although distillation has been a longstanding separation method and is considered mature technology, the 21st century presents unique challenges. These include the need to reduce capital costs, energy consumption, enhance efficiency and profitability, and lower operational and maintenance expenses.

On the one hand, we observe the escalating energy and resource demands of a growing and ambitious South Asian populace. On the other hand, there is a growing emphasis on reducing the environmental impact of the manufacturing sector. This shift has led to various developments, such as the adoption of ethanol-blended fuels, the integration of refining with petrochemicals, and stricter regulations on waste disposal. Hence, it is evident that distillation will remain the primary method for separating mixtures in the coming decades. Numerous discussions and initiatives are still required to address these challenges. The Di.Ex conclave aspires to become the largest specialized technical platform for distillation in South Asia, a region that houses the majority of the world's manufacturing facilities.





& Partners

TITLE SPONSORS

SULZER



EXHIBITOR



SILVER SPONSORS



ORGANIZER



MEDIA PARTNERS

CHEMICAL INDUSTRY DIGEST





Organizer



Three Ten Initiative Technologies LLP (310i Technologies), based in Visakhapatnam, India is a global provider of services including high fidelity digital tools for sulphur removal & gas processing – ProTreat®, SulphurPro®, and ProBot™, concept to deployment of process engineering software solutions, improving plant safety & profitability, pushing operating boundaries with optimization, troubleshooting & debottlenecking using advanced simulation, complex systems modelling & data analysis; specialized technical conferences – SulGas (South Asia's only conference on gas treating and sulphur recovery) and Distillation Experts Conclave (Bringing together global distillation expertise); SAFETEMBER (Process safety & risk management); senior level training in process safety, controller performance monitoring, process loop tuning, distillation in practice, sulphur recovery (including TGTU), gas treating (amine, sour water stripping, and CO2 removal); and young engineer training (under the SkillNXT Programs) in piping & instrumentation diagrams, building custom applications (Excel/VBA), process simulation basics, engineering economics, professional communication and ethics.

For more information you can reach out to:

Three Ten Initiative Technologies LLP
Regus Elite Business Centre, Naga Chambers,
D. No 12-1-16, Plot No. 49, Level 3 & 4,
Waltair Main Road, Visakhapatnam, AP 530002, India
W: <https://the310i.com> E: info@the310i.com P: +91-7330875310



THREE TEN INITIATIVE TECHNOLOGIES LLP

CELEBRATING

7 YEARS

Thank you all for your continued support as we continue to grow and strive to improve.



Simulation



**Software
prototyping**



**Technical
conferences**



Troubleshooting



Optimization



Training



+91-733 087 5310



@the310i



<https://the310i.com/>



@three-ten-initiative-technologies-llp/

info@the310i.com

Regus Vizag, Naga Chambers
Waltair Main Road,
Visakhapatnam
AP 530002, India



Title

Sponsor

SULZER

Sulzer is a global leader in fluid engineering and chemical processing applications. We specialize in energy-efficient pumping, agitation, mixing, separation, purification, crystallization and polymerization technologies for fluids of all types. Our solutions enable carbon emission reductions, development of polymers from biological sources, recycling of plastic waste and textiles, and efficient power storage. Our customers benefit from our commitment to innovation, performance and quality through our responsive network of 180 world-class manufacturing facilities and service centers across the globe. Sulzer has been headquartered in Winterthur, Switzerland, since 1834.

When superior chemical processing and separation technologies matter most, we enable our customers to operate world-class plants and produce high value products.

The Chemtech division is the global market leader in innovative mass transfer, static mixing and polymer solutions for chemicals, petrochemicals, refining and upstream. We are steering the way in ecological solutions such as bio-based chemicals, polymers and fuels, recycling technologies for textiles and plastic as well as carbon capture and utilization/storage, contributing to a circular and sustainable economy. Our solutions ranges from process components to complete process plants and technology licensing.

Key Contact Information:

Contact Person: Mr. Dinesh Gupta, Head Business Development

Email: Dinesh.Gupta@sulzer.com

Phone: +91 9552585910; +91 2137 304 742

Website: <https://www.sulzer.com/en/>

SULZER

We make chemistry happen

Sulzer Chemtech is global market leader in reaction, separation, purification, static mixing as well as polymer processing technologies. With a comprehensive offering that includes process components all the way to complete process plants and technology licensing, we can serve a broad range of industries with key solutions to intensify processes, increase efficiency and improve product quality. We offer state-of-the-art solutions for distillation, absorption, stripping, evaporation, phase separation, liquid-liquid extraction, crystallization.

With an ever-expanding portfolio of cutting-edge solutions that supports circularity while reducing material and energy use as well as emissions, we are the ideal partner to support the net zero transition of businesses across the chemical and polymer value chains. We also offer our technology innovations to support the sustainable manufacturing of bio-plastics, renewable fuels, chemical recycling for recyclable materials as well as carbon capture technologies.



SULZER

Cutting edge refinery, chemical & petrochemical revamps. Guaranteed results.

At Sulzer Chemtech we develop, design and produce mass transfer equipment and offer solutions for all your separation challenges. To remain competitive, you have to keep pace with new innovations, changing markets and regulations. Revamping existing units can be very challenging, but also very profitable. Sulzer Chemtech specializes in refinery, chemical and petrochemical plants revamps focusing on separations.

We can show you innovative ways to increase capacity, efficiency, product yield, and reliability. A successful revamp must consider not only the column and its internals, but also ancillary equipment such as fired heaters, heat exchangers, pumps, compressors, piping, and valves. In many cases, you cannot weld on the column itself, so new designs must be creative and innovative, often taking advantage of high performance internals and using special design techniques.

From a simple column revamp to an entire distillation train revamp, Sulzer Chemtech has the experience and expertise to guarantee your successful refinery revamp. Choose from an extensive range of Sulzer India products:

- MellapakPlus™ range of Structured Packings
- VGPlus™, UFMPlus™, Shell HiFi™ Plus, Shell Calming Section™ Plus, Shell CS Grid™ and Shell ConSep™ proprietary Trays
- Advance Generation Rings for Random Packed Columns
- Advanced Feed Inlet Device HiPer™ Cyclone, Shell Schoepentoele™ and Schoepentoele Plus™
- Separator internals for 2 phase and 3 phase separators
- Static Mixers
- Process Plants

www.sulzer.com





Title

Sponsor



Shell is a global group of energy and petrochemical companies with more than 90,000 employees in more than 70 countries. Shell has expertise in the exploration, production, refining and marketing of oil and natural gas, and the manufacturing and marketing of chemicals. We use advanced technologies and take an innovative approach to help build a sustainable energy future. We invest in power, including from renewable sources such as wind and solar. We also invest in electric vehicle charging and low-carbon fuels for transport, such as advanced biofuels and hydrogen. Projects & Technology is projects execution and technology engine of Shell. Distillation R&D fits within downstream technology organization of P&T

Key Contact Information:

Contact Person: Mr. Rajeev Narayan, Team Lead - Distillation R&D and Light Ends, Downstream Primary Processes, Shell Projects & Technology

Email: Rajeev.Narayan@shell.com

Phone: +91 - 7349797588

Website: <https://www.shell.in/>



Exhibitor



BOARD OF RADIATION & ISOTOPE TECHNOLOGY

Online Diagnostic Solutions for Process Industries

MAJOR TECHNIQUES

Column Scanning

Gamma scanning provides real time picture on tray damages, missing trays, down comer condition, liquid level on tray, flooding, entrainment, foaming, weeping, packed bed channelling, liquid distribution over packed bed, coke deposition, liquid distributor condition and any other blockages or damages.

Leak Detection

If a leak is suspected in a series of heat exchangers, radiotracer technique can be applied to identify the leaky one. It helps to reduce the maintenance cost, downtime of the plant as well as comply with the standards.

Leakages in the underground pipelines can be pinpointed using radiotracer PIG method. It helps to prevent product loss and avoids environment pollution.



CONTACT US



www.britatom.gov.in



022-27887312/7306



Navi Mumbai-400703

Board of Radiation & Isotope Technology (BRIT) is a unit of Department of Atomic Energy, Government of India. It is primarily involved in the production and distribution of radio-isotope based technology, products and services for the societal benefit. We offer widest range of online industrial diagnostic services to obtain a clear information on the internals of the process equipment e.g., column, vessel, pipe, bends, heat exchanger, reactor-regenerator system etc.

Our innovative radiation techniques are helpful to maintain a better productivity, efficiency & safety as well as it allows refinery officials to take important decisions regarding shutdown, troubleshooting & optimization which delivers huge economic benefits. BRIT has the access of vast R&D activities and with the immense experience in the field, we can provide solutions for any specific problem.



Sponsor



Aarti Industries Limited (AIL) is a leading Indian manufacturer of speciality chemicals and pharmaceuticals with a global footprint. We combine process chemistry competence (recipe focus) with a scale-up engineering competence (asset utilisation) for creating a sustainable future.

Over the last decade, AIL has transformed from an Indian company servicing global markets to a global entity with state-of-the-art manufacturing facilities in India. We manufacture chemicals used in the downstream manufacturing of pharmaceuticals, agrochemicals, polymers, additives, surfactants, pigments and dyes.

Key Contact Information:

Website: <https://www.aarti-industries.com/>



Silver

Sponsor



NAYARA
ENERGY

Nayara Energy is a new-age downstream energy & petrochemicals company of international scale with a unique mix of young and experienced minds and a robust foundation of best-in-class infrastructure and processes with a desire to deliver excellence, every step of the way. It owns India's second-largest single-site, state-of-the-art refinery, and one of the most modern and complex refineries in the country having businesses across the hydrocarbon value chain, from refining to retail, and is geared up to drive the vision of delivering crude to chemicals.

Key Contact Information:

Website: <https://www.nayaraenergy.com/>



Media Partners

CHEMICAL INDUSTRY DIGEST

Chemical Industry Digest is India's leading chemical and engineering monthly known for its qualitative content with practical relevance for process industries. It features articles and write-ups on current developments, state-of-the-art technologies, equipment design, plant operations, maintenance, energy management, environment, and safety. Chemical Industry Digest also includes news features, company profiles, and mini directories of equipment manufacturers and service providers making it very engaging. The journal readership includes a very targeted top technical audience who influence decisions; from engineers, scientists and technical personnel in top management to the plant level. Industries covered are oil & gas, refineries, petrochemicals, fertilizers and agrochemicals to drugs & pharma, fine chemicals, colorants, EPC & equipment manufacturers, etc.

For more information:

Visit: <http://www.chemindigest.com>

E: chemindigest@gmail.com

T: +91 22 26733324 / 67410758



DIGITALREFINING.COM is the refining, gas and petrochemical processing industries reference library of choice, providing a constantly growing database of technical articles, company literature, product brochures, videos, industry news, events and company information. <http://www.digitalrefining.com> PTQ is the authoritative magazine covering process technology developments in the refining, gas and petrochemical industries. Each issue of PTQ carries in-depth technical feature articles from around the world charting experiences under operating conditions in improving production or safety or meeting environmental targets. It is the practical and detailed nature of these articles that makes PTQ required reading for engineering decision makers.

For more information, visit <http://www.eptq.com>



Session

4th edition

Themes

Session

1

Advancements in Column Hardware

2

Capacity Enhancement

3

Reliability Improvement

4

Case Studies

5

Novel Separation - I

6

Revamps I

7

Novel Separation - II

8

Effective Digital & Analytical Interventions

9

Revamps - II

Conference Agenda

4th edition

Day 1 - Thursday 12 October 2023 All times are in IST (GMT +5.5 hours)

- 9:00 AM - 9:10 AM** **Opening Remarks by Three Ten Initiative Technologies LLP**
- 9:10 AM - 9:30 AM** **Keynote Remarks**
Chandrakant Joshi, Director Technology, Sulzer India Pvt. Ltd.
- Session Theme: Advancements in Column Hardware**
(9:30 AM - 9:50 AM) - A new high capacity gas distributor-cum-support plate for packed columns
Dr. Phaneswararao Damaraju, IIT Delhi
(9:50 AM - 10:15 AM) - Convert a conventional naphtha splitter to a dividing wall column at a major Indian Refinery
Giuseppe Mosca, Sulzer Chemtech
(10:15 AM - 10:40 AM) - ConSep Plus Trays
Prakash Katre, Shell India Markets Pvt. Ltd.
(10:40 AM - 11:05 AM) - SUPERFRAC® tray technology: Versatile tool for optimized tower design
Sandeep Yadav, Koch Engineered Solutions India Pvt. Ltd.
- 9:30 AM - 11:05 AM**
- 11:05 AM - 11:35 AM** **Networking Break**
- Session Theme: Capacity Enhancement**
(11:35 AM - 11:55 AM) - Innovative approach: Throughput maximization while processing high API crudes in CDU3 of BPCL KR
Rajasekhara Babu Manika, Bharat Petroleum Corp. Ltd. - Kochi Refinery
(11:55 AM - 12:15 PM) - Low cost revamp for debottlenecking throughput and increasing the energy efficiency - Case studies on CDU/VDU revamp at HPCL Mumbai Refinery
Deepak Kumar Jha, Hindustan Petroleum Corp. Ltd. - Mumbai Refinery
- 11:35 AM - 12:15 PM**
- Session Theme: Reliability Improvement**
(12:15 PM - 12:35 PM) - Engineered temporary cooling solutions for rent improve distillation profitability
Massimo Capra, Aggreko Process Services
(12:35 PM - 12:55 PM) - Reliability of protective systems and providers
Peter Johnson, Integrated Global Services
- 12:15 PM - 12:55 PM**
- 12:55 PM - 13:45 PM** **Lunch**
- Session Theme: Case Studies**
(13:45 PM - 14:10 PM) - Resolving fouling issue due to popcorn polymer formation in butadiene purification column
Nikunj Patel & Harshal Kharwade, Reliance Industries Ltd.
(14:10 PM - 14:30 PM) - Case study imparting flexibility of processing multiple crude blends in existing crude distillation units
Prabhat Ranjan Choudhary, Indian Oil Corp. Ltd. - Refinery Head Quarters- New Delhi
(14:30 PM - 14:55 PM) - Energy efficiency and sustainability
Ratheesh S, Bharat Petroleum Corp. Ltd. - Mumbai Refinery
- 13:45 PM - 14:55 PM**
- 14:55 PM - 15:25 PM** **Networking Break**
- Session Theme: Novel Separation - I**
(15:25 PM - 15:50 PM) - Oldershaw column - An essential tool to go from lab to commercial design of complex separation systems
Sagar Kale, Reliance Industries Ltd.
(15:50 PM - 16:10 PM) - Short path distillation trials for biotech based flavour ingredient separation
Dr. Anuradha Mukherjee, Tojo Vikas
(16:10 PM - 16:30 PM) - Hybrid pervaporation-distillation: a sustainable technology to break azeotropes for efficient, high-purity solvent recovery
Aparna Anilkumar, IISc Bengaluru
- 15:25 PM - 16:30 PM**
- 16:30 PM - 17:30 PM** **Open House Round Table Q&A**

Conference Agenda

4th edition

Day 2 - Friday 13 October 2023
All times are in IST (GMT +5.5 hours)

- 9:00 AM - 9:10 AM** **Opening Remarks by Three Ten Initiative Technologies LLP**
- 9:10 AM - 9:30 AM** **Keynote Remarks**
Pradip Mukherjee, Chief Executive, Board of Radiation & Isotope Technology
- 9:30 AM - 10:00 AM** **Expert Session - I**
Considerations for pre-flash drums and pre-flash columns in crude units
Henry Kister, Fluor Corp.
- 10:00 AM - 10:30 AM** **Expert Session - II**
Steam reboiler performance is tied to proper condensate vessel balancing
Jim Risko, Independent Consultant
- 10:30 AM - 11:20 AM** **Session Theme: Revamps I**
(10:30 AM - 10:55 AM) - Revamping superfractionator with Shell low tray spacing solutions
Prakash Katre, Shell India Markets Pvt. Ltd.
(10:55 AM - 11:25 AM) - De-bottleneck distillation columns using dividing wall technology
Anju Patil, DWC Innovations
- 11:20 AM - 11:50 AM** **Networking Break**
- 11:50 AM - 13:00 PM** **Session Theme: Novel Separation - II**
(11:50 AM - 12:10 PM) - Reliable technology to achieve zero liquid discharge by treating ammoniacal nitrogen rich BMSW evaporator condensate distilleries and making it an integral part of process.
Abhishek Tripathi, Paques Environmental Technology India Pvt. Ltd.
(12:10 PM - 12:35 PM) - Safe removal of chemical contaminants from wastewater - purification and recycling
Joerg Koch, Sulzer Chemtech
(12:35 PM - 13:00 PM) - Novel distillation engineering aspects for futuristic second generation (2G) ethanol bio-plants
Dr. Ritesh Mittal & Sanjeev Singhal, Engineers India Ltd.
- 13:00 PM - 13:50 PM** **Lunch**
- 13:50 PM - 14:50 PM** **Session Theme: Effective Digital & Analytical Interventions**
(13:50 PM - 14:10 PM)- Online inspection of an amine regenerator column using gamma rays
Vinay Bhawe, Board of Radiation & Isotope Technology
(14:10 PM - 14:30 PM) - Simulation studies (process / CFD) and digital twins
Amar Kale, Bharat Petroleum Corp. Ltd. - Mumbai Refinery
(14:30 PM - 14:50 PM) - APC & digital twin in crude distillation units - An amazing synergy
Kishor Tonge, Bharat Petroleum Corp. Ltd. - Mumbai Refinery
- 14:50 PM - 15:10 PM** **Session Theme: Revamps - II**
(14:50 PM - 15:10 PM) - Improving refinery economics using inhouse capability at IOCL Refinery
Biswak Sen Das, Indian Oil Corp. Ltd. - Refinery Head Quarters-Delhi
- 15:10 PM - 16:10 PM** **Open House Round Table Q&A**
- 16:10 PM - 16:20 PM** **Closing and Adjournment**



Speaker Profiles

4th edition



Abhishek Tripathi, **Paques Environmental Technology India Pvt. Ltd.**

Abhishek is a professional backed with rich work experience in the areas of Sales in Marketing, Product Management, Business Development & Operations. He is a Mechanical Engineer and holds Post Graduation in Marketing from ICFAI Business School. In his experience of more than 10 years he has been associated in different roles and responsibilities companies like Pentair - US MNC into Filtration, Napino Auto (Hero group company) and currently associated with European Based company and Global Pioneers in waste water treatment and Biogas filtration company - PAQUES Head of Capital Equipment Sales. At present Abhishek is accountable for the growth of Paques Capital Equipment Sales in PAN India.



Amar Kale, Bharat Petroleum Corp. Ltd.

A competent professional having 10 years of working experience in the oil & gas industry. Involved in pre-commissioning & commissioning activities of Gasoline treatment unit of 0.9MMTPA licensed by Axens with prime G+ technology. Having an experience of FCCU & GTU plant, scheduling and blending, operations of demountable flare, Refinery tank farm operations, slop oil management, Refinery offsite facilities.



Anju Patil, DWC Innovations

Anju Patil (Gurgaon, India) is the head of India Operations for DWC Innovations. She has a bachelor's degree in chemical engineering from Malviya National Institute of Technology (Jaipur, India). She has 17 years of experience in process design and simulation. She started her career as a process engineer at DSCL in India, where she was actively involved in plant operations and process optimization. Her main areas of interest include distillation, refinery processes, and energy conservation. She is also interested in new refinery technologies for energy optimization, including dividing wall column technologies.



Dr. Anuradha Mukherjee, Tojo Vikas Biotech Pvt. Ltd.

Anuradha is co-founder of Tojo Vikas Biotech Pvt Ltd, but remains a chemical engineer by passion and profession. The company is an early mover in applying biotech, green chemistry, and advanced separation solutions to the global flavour and fragrance industry. Her contributions have helped patent and commercialize three biotech-based molecules. Her understanding of downstream processing, interest in fermentation, and bioprocesses continue to shape the trajectory of Tojo Vikas Biotech's growth. Her responsibilities include, but are not limited to execution of scientific projects, industry liaisons, new product development, and downstream processes.



Speaker Profiles

4th edition



Aparna Anilkumar, IISc Bengaluru

Aparna Anilkumar is a research scholar at the Centre for Sustainable Technologies, IISc Bengaluru. Prior to this, she worked as a process engineer at multiple engineering consultancies within the energy industry working on process design projects, safety studies, and simulation studies. She graduated in 2012 from the University of Aberdeen (Scotland) with an Integrated Masters in Chemical Engineering from the University of Aberdeen. During my time at UoA, she was awarded the Norman Levy Memorial Prize and the Atkins Engineering scholarship. She is presently pursuing a PhD in Sustainable Technologies as part of the Sustainable Separation Solutions research group at CST, IISc. Her area of interest is sustainable solvent recovery from azeotrope-forming solvent mixtures, and the hybridization of distillation by means of membrane separation, to reduce energy usage and increase the lifecycle sustainability of a manufacturing process.



Biswak Sen Das, Indian Oil Corp. Ltd.

Biswak Sen Das, Chief Technical Services Manager at Indian Oil Refinery HQ, New Delhi, joined IOCL in Sep 2005 with 17+ years of experience in Refinery Operations, Project Commissioning, Process Equipment Design, Simulation, and Troubleshooting. In his current role, he's developed key process packages, improved plant capacity, yield, and energy efficiency. He's also involved in India's first CO₂-EOR project and completed a carbon capture feasibility study at Koyali Refinery, Gujarat. Previously, he worked in various units at Mathura and Paradip Refineries.



Chandrakant Joshi, Sulzer India Pvt. Ltd.

Chandrakant P Joshi is currently serving as Director Technology at Sulzer India Private Limited, he has about 29 years of experience in mass transfer technology. In various capacities he has handled different functions like Application sales, Regional Office sales, Process Plants sales as a Head and also recognized as one of the Global Technical expert within SULZER Chemtech community.



Deepak Kumar Jha, Hindustan Petroleum Corp. Ltd.

Deepak Kumar Jha, Sr. Manager in the Technical Services Department at HPCL's Mumbai Refinery, is a Certified Energy Auditor with a B.Tech in Chemical Engineering from HBTI-Kanpur and an Executive MBA from UPES. With 15+ years of experience, he's adept in Process Engineering, Licensor Selection, and Refinery Mega Projects. His current role involves optimizing, monitoring, and troubleshooting units like crude/vacuum distillation, LPG treatment, and Hexane Production. Deepak is passionate about decarbonizing refineries through carbon capture tech and is committed to the energy transition.



Speaker Profiles

4th edition



Giuseppe Mosca, Sulzer Chemtech

Giuseppe Mosca is the Refinery Global Applications Manager and Head of Engineering Solutions at Sulzer Chemtech, specializing in mass transfer component design for distillation towers, absorbers, and strippers. He also contributes to process simulation, revamping, troubleshooting, and commissioning of fractionation equipment. Previously, he worked at Glitsch Italy, designing mass transfer components for refining and petrochemical applications. At API Raffineria di Ancona, Italy, he served as a process engineer for various units. Mosca holds a Master's in Chemical Engineering from the University "La Sapienza," is a registered professional engineer in L'Aquila, Italy, and a senior member of AIChE in the USA, with 40+ published papers.



Harshal Kharwade, Reliance Industries Ltd.

Harshal Kharwade is a Senior Process Design Engineer and Internal faculty member for the fractionation process and equipment design in Reliance Industries Ltd. He holds a master's degree in chemical engineering from Birla Institute of Technology and Science (Pilani Campus). He has over 13 years of experience in the design, troubleshooting, and revamping of fractionation processes and equipment.



Henry Kister, Fluor Corp.

Henry Z. Kister is a Fluor Corp. Senior Fellow and Director of Fractionation Technology. He has over 35 years experience in design, troubleshooting, revamping, field consulting, control and startup of fractionation processes and equipment. He is the author of three books, the distillation equipment chapter in Perry's Handbook, the distillation chapter in the Kirk-Othmer Encyclopedia of Chemical Technology, and over 130 articles. Kister has taught the IChemE-sponsored "Practical Distillation Technology" course over 530 times in 26 countries, and a recent "Troubleshooting Distillation Controls" course, also sponsored by IChemE. A recipient of several awards, Kister obtained his BE and ME degrees from the University of NSW in Australia. He is a Fellow of IChemE and AIChE, Member of the US National Academy of Engineering, and has been serving on the FRI Technical Advisory and Design Practices Committees for more than 25 years.



James R. Risko, Independent Consultant

James R. Risko, CEM, PEM, MBA, is the retired president of TLV Corporation, overseeing US and Canadian operations. With 46 years of steam systems expertise, he prioritizes production reliability through efficient steam heat utilization. Jim authored 60+ technical articles, conducted webinars for 3,000+ global attendees, and holds patents, including pioneering combination pump-traps for heat exchanger drainage. He chaired the Fluid Controls Institute (FCI), advises the Texas Industrial Energy Efficiency Program (TIEEP), and the Industrial Energy Technology Conference (IETC). Jim holds three energy management certifications, an MBA from Wilkes University, and dual BS degrees in mathematics/education and business administration/accounting from Kutztown University of Pennsylvania.



Speaker Profiles

4th edition



Dr. Joerg Koch, Sulzer Chemtech

Dr. Joerg Koch is Global Product and Application Manager for Liquid-Liquid Extraction Technology, Water & HPI Aromatics Applications of Sulzer Chemtech. He is leading the design of Extraction Technology and related applications. He is involved in Development of new applications and products within Sulzer Chemtech. Dr. Joerg previously worked at different roles for Process engineering, distillation technology in Kühni. He is the author and co-author of many papers published at international conferences and magazines. Dr. Joerg received a PhD in Process Engineering from Technische Universität Clausthal.



Kishor Tonge, Bharat Petroleum Corp. Ltd.

Kishor Tonge is the lead APC engineer in BPCL Mumbai Refinery, He has a bachelor's degree in Chemical Engineering from LIT, Nagpur. He has also completed eMBA from S.P.Jain, Mumbai. He has 21 years of experience in refinery operations, technical services and Advanced Process Control at Mumbai and Kochi refineries. His main area of interest includes plant debottlenecking, process trouble shooting and APC in-house implementation.



Massimo Capra, Aggreko Process Services

Massimo Capra is the manager of Aggreko Process Services in Dubai UAE, supporting the Middle East's refining and petrochemical sectors. He has 37 years' experience in the refining and chemical process industry as process and project engineering manager for companies including AGIP, Foster Wheeler Italiana, Tecnimont, Aramco Overseas Company, and as a freelance consultant. He worked as Process Technologist and Team Leader at OPCW (Nobel Peace Prize 2013), conducting more than 150 process assessments in chemical facilities. Massimo earned a MS in Chemical Engineering from Politecnico di Torino (IT), PGC in Project Management from University of Wales (UK), MBA from Robert Kennedy College (CH), Lean 6 Sigma Black Belt from BMGI (USA) and ISO9001 Lead Assessor cert. from SGS (NL).



Nikunj Patel, Reliance Industries Ltd.

Nikunj Patel is Head Technology – Elastomer at Reliance Industries Limited. He holds a Chemical Engineering degree from Government Engineering College, Gandhinagar. He has over 17 years of experience in operation and technology functions of various elastomer plants. In addition to this he has also led the elastomer team during the commissioning and stabilisation of PBR, Butyl Rubber and Halobutyl Rubber projects.



Speaker Profiles

4th edition



Peter Johnson, Integrated Global Services

Pete Johnson is the Director of O&G for IGS in the APAC region. He has over 10 years' experience in the corrosion mitigation industry following achieving an Honours Degree in Mechanical Engineering at Plymouth University in the UK. Pete moved to Asia permanently in January 2014 and held the position of Engineering and Business Development Manager with an Organic Coating Manufacturer. Since 2020, Pete has been working with clients in a range of industries across Asia to understand metal wastage mechanisms and providing bespoke solutions to help plants to become more reliable and achieve lower life cycle costs.



Dr. Phaneswararao Damaraju, IIT (Retd.)

Prof. D. P. Rao, born in 1945 in Eluru, Andhra Pradesh, holds B.Tech, M.Tech, and Ph.D. degrees in Chemical Engineering from prestigious institutions including IIT Bombay, IIT Kanpur, and the University of Idaho, USA. He served as a Professor at IIT Delhi for over three decades, including a stint as Head of the Chemical Engineering Department. Prof. Rao introduced dual-degree programs, supervised numerous projects, and specialized in chemical reactor dynamics, multiplicity, micromixing, and control. He has an extensive teaching record, 33 international publications, 44 conference papers, and holds two Indian patents related to energy conservation and support plate design. Prof. Rao also conducted pilot plant projects on carbon capture and energy recovery.



Prabhat Ranjan Choudhary, Indian Oil Corp. Ltd.

Prabhat Ranjan Choudhary is a Chief Manager in Process Design Engineering Cell, Refinery HQ, Indian Oil, New Delhi. He has joined IOCL in Dec 2007 and has more than 15 years of work experience in the field of Refinery Operation, process simulation, Process design, engineering & troubleshooting. In current role of process design, he has developed major grassroots & revamp process package, troubleshooting studies of various refinery units like CDU/VDU/ARU/SWS etc, open art section of licensed unit for improving the unit capacity, yield & energy improvement and cost saving benefit. Prior to current assignment of process design, he has worked in RFCC & DHDT unit operation for five years in Barauni Refinery.



Pradip Mukherjee, Board of Radiation & Isotope Technology

Pradip Mukherjee, Outstanding Scientist and Chief Executive, BRIT is an alumnus of Indian Institute of Engineering Science and Technology (IIST), West Bengal (formerly known as Bengal Engineering College) from where he obtained his Mechanical Engineering degree in 1987. He joined BARC after graduating from 31st batch of BARC Training School in 1988. He is specialized in the field of the design construction and commissioning of Research Reactor.



Speaker Profiles

4th edition



Prakash Katre, Shell India Markets Pvt. Ltd.

Prakash Katre is currently working as Senior Technologist Equipment Design and Innovation at Shell Technology Centre Bangalore and hold bachelor's degree in chemical engineering from Laxminarayan Institute of Technology, Nagpur. Prakash is having +17 years diversified experience in Process Design, Technical Services, Operations, Monitoring and Trouble shooting and Research & Development. Prakash holds the Technical Authority-3 In distillation design and provide the technical assurance.



Rajasekhara Babu Manika, Bharat Petroleum Corp. Ltd.

Rajasekhara Babu Manika is a dedicated professional with a strong focus on commissioning, start-up, shutdown, and troubleshooting of CDU and DCU plants. With a notable track record, he played a pivotal role in commissioning a 10.5 MMPTA capacity CDU and successfully completed a major TA in 2022 following IREP commissioning. Additionally, Rajasekhara was an integral part of the DCU commissioning team, contributing to the successful completion of another major TA in 2022. With 16 years of experience in refinery operations and process engineering, he brings a wealth of expertise to the industry, particularly in energy and reliability initiatives.



Ratheesh S, Bharat Petroleum Corp. Ltd.

Ratheesh is currently the Manager of Process Technology at Bharat Petroleum Corporation Limited, Mumbai Refinery, India. He holds a Bachelor's degree in Chemical Engineering from Thangal Kunju Musalliar College of Engineering, Kollam, affiliated with the University of Kerala, India. With more than 12 years of experience, he specializes in front-end engineering design, detailed engineering, pre-commissioning, commissioning, start-ups, and turnarounds, as well as providing technical services for refineries in India and abroad. His expertise spans Hydrotreating Units, Sulphur Recovery Units, Aromatics Recovery Units, and Delayed Coking Units. Ratheesh has presented papers at national and international forums and published three articles in renowned international magazines. He is a valuable member of the team that received prestigious awards such as the Greentech Quality & Innovation Award 2022, Economic Times Ascent National Award 2022, and CII National Award 2023 for Most Innovative Project.



Dr. Ritesh Mittal, Engineers India Ltd.

Dr. Ritesh Mittal is AGM in EIL and is doctorate from IIT -Delhi with specialization in Bio-fuels. He is Chemical engineer by profession with interest in Process design of refineries and petrochemical plants including bio-Refineries. He had published several patents, national and international Papers and had Co-authored Wiley International book on Bio-fuels.



Speaker Profiles

4th edition



Sagar Kale, Reliance Industries Ltd.

Sagar D. Kale is a dedicated professional currently serving as a Senior Research Scientist at Reliance Industries Limited, R&D Navi Mumbai. With a Master's degree in Chemical Engineering from IIT Delhi, Sagar brings expertise in technology development, process optimization, and plant troubleshooting. He has a proven track record in process engineering, process modeling, pilot scale trials, and process scale up from lab scale to commercial scale. Sagar's current role involves leading cutting-edge research initiatives, driving innovation, and providing valuable insights for commercial plant support. His strong academic background, combined with his industry experience, positions him as a valuable asset in the field of chemical engineering.



Sandeep Yadav, Koch Engineered Solutions India Pvt. Ltd.

Sandeep Yadav is Asst. General Manager - Application Engineering at Koch Engineered Solutions India Pvt. Ltd. He Leads Application Engineering team for Mass Transfer, Separation Technology and Heat Transfer in India. He has over 17 years' experience in troubleshooting, revamping, design of fractionation process, design of dividing wall columns and equipment's. He has authored 3 international publications on design, revamp and troubleshooting of the distillation columns. He holds bachelor's degree in chemical engineering from Shivaji University, India.



Sanjeev Singhal, Engineers India Ltd.

Mr. Sanjeev Singhal is General Manager in EIL's Research and Development Division. He holds a Bachelors degree in Mechanical Engineering from the IIT-Roorkee and is certified energy auditor. He has over 24 years of rich experience in Pilot Plant Troubleshooting, Project Management and Lab Experimentation in Oil and Gas domain. He is credited with spearheading the Flagship EIL start-up ENGSIU scheme for fostering start up ecosystem for PAN India start-ups.



Vinay Bhave, Board of Radiation & Isotope Technology

Vinay Bhave completed his B.E. in Mechanical Engineering from Pune University. He is currently working as DGM (IAS) at Board of Radiation and Isotope Technology, Navi Mumbai. He has been working in the field of industrial application of radio-isotopes for diagnostics & troubleshooting of the malfunctions present in the process plant, design of the source storage casks and irradiation facilities. These radiation techniques have been applied to public sector as well as private sector petrochemical industries, for scanning of process columns, identification of leakages in pipelines and heat exchangers, scanning of pipes for blockage detection, and pig tracking etc. which are very helpful to take critical decisions regarding operation and shutdown.



Organizer

Profiles



Dr. Upasana Manimegalai Sridhar
Director

Dr. Upasana Manimegalai Sridhar received her B. Tech. degree from Anna University (India) in 2009, followed by M.S. (2010) and Ph.D. (2014) degrees in chemical engineering from Oklahoma State University (USA). She began her career at Covestro (formerly Bayer Material Science) at Baytown, Texas, where she primarily worked as a Process Dynamics and Optimization Specialist, focusing on process control, modelling, and optimization. Her additional responsibilities included working in the Process Safety group at Covestro. Currently, as the Director at Three Ten Initiative Technologies LLP in Visakhapatnam, India, she leads skill development initiatives and drives engineering software development prototyping for major industrial software manufacturers.



Dr. Anand Govindarajan
Director

Dr. Anand Govindarajan, received his B. Tech. from Anna University (India), and M.S. and Ph.D. degrees from Oklahoma State University (USA), all in chemical engineering. Dr. Govindarajan has led/conducted trainings on gas treating and Sulphur recovery for dozens of engineers in India, Singapore, Saudi Arabia, UAE, and USA. Presently Dr. Govindarajan is the Director of 310i Technologies in Vizag, India. Prior to this Dr. Govindarajan has been part of VA Tech WABAG, SSN Research Centre, Sun to Market Solutions, Fractionation Research Inc. and Optimized Gas Treating in various roles. Dr. Govindarajan was also Co-Chair of the Separations Division of the American Institute of Chemical Engineers, and was also on the panel of the Board of Studies of SSN College of Engineering-Chennai.



Vivek Loyola Polamarasetty
Events Specialist

Vivek Loyola Polamarasetty holds a Bachelor's in Mechanical Engineering from Raghu Institute of Technology (JNTU Kakinada). He started as a Junior Engineer at Seapol Visakhapatnam Port, later earning a Postgraduate Diploma in Management from Vignana Jyothi Institute of Management, Hyderabad. He now works as an Events Specialist at Three Ten Initiative Technologies LLP (310i) curating specialized technical conferences for the refining and chemical process industries - SulGas, Distillation Experts Conclave, and SAFETEMBER.

6th Edition

SulGas[®]

MUMBAI | 2024

SOUTH ASIA'S ONLY CONFERENCE ON SULPHUR RECOVERY & GAS TREATING

170+

Delegates

60+

Participating
Companies

45+

Indian
Companies

25+

International
Companies

50%

OpCo
Delegates

Jan 31 - Feb 2 | Novotel Juhu

CO₂ Capture

Gas Treating

Sulphur Recovery

**Sponsor &
Exhibitor
Plans Open**



- **Platinum**
- **Diamond**
- **Exhibitor**

Early Bird Registrations
(ends on 11 November 2023)

98%

Delegates have given the feedback that the conference matched / exceeded their expectation

80%

Sponsors comeback every year in support of the SulGas conference

ORGANIZER



TITLE



AMETEK
PROCESS INSTRUMENTS

PLATINUM PLUS

kvt.technology

PLATINUM

EXHIBITOR

DIAMOND



Comprimo



TOPSOE

OFFICIAL PUBLICATION

SUPPORTING MEDIA PARTNERS

SULPHUR
Published by Oilwright

CHEMICAL INDUSTRY DIGEST



Worldoils

Visit <https://sulgasconference.com>

Call +91-9676611950 E-mail admin@sulgasconference.com



www.distillationconclave.com
prcentral@distillationconclave.com
+91 9676611950

BRINGING TOGETHER THE GLOBAL DISTILLATION EXPERTISE

