

6<sup>th</sup> Edition

# SulGas<sup>®</sup>

**MUMBAI | 2024**

**31 January - 2 February | Novotel Juhu Mumbai**

**SOUTH ASIA'S  
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CONFERENCE  
ON  
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RECOVERY &  
GAS TREATING**



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**Three Ten Initiative Technologies LLP  
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# ABOUT SULGAS



**SulGas** is devoted to various topics in the areas of Sulphur Recovery and Gas Treating. SulGas is the answer to the long pending need for an entirely dedicated, neutral, and high-quality technical forum in South Asia in the areas of sulphur and gas treating.

The SulGas Mumbai 2024 conference aims to expand on the success of the previous conferences and bring together all stakeholders in the area of sulphur & gas treating. SulGas provides a platform for a neutral and high-quality technical forum in the Indian subcontinent.

SulGas is designed to primarily allow for maximum technical exchange between participants while also allowing for focus on marketing, trade, and geo-politics. Often, SRUs, TGUs, amine units and other gas treating operations are viewed as regulatory necessities and not given due importance. As we process higher sulphur crudes and deal with BS-VI standards across all refineries in India and similar such tightening of standards in the rest of the South-East Asia region, we must find ways to remove, store and sell more sulphur. This brings a host of issues to the sulphur handling units that need identification and solutions.

The vision of SulGas is to serve as a marquee event in the Indian and South Asian oil and gas conference calendar for facilitating open technical exchanges. SulGas 2024 brings together all public-sector oil companies, private refiners, petrochemical, chemical and fertilizer plants, licensors, engineering companies, solvent and column equipment manufacturers, and control and instrumentation companies. SulGas focuses on issues unique to India and South Asia in the areas of equipment & process design, process optimization, operations, near misses, analytical methods, and failures and success of troubleshooting efforts.

The conference focuses, within the general ambit of sulphur recovery & gas treating, on issues unique to the region in the areas of:

- Equipment & process design
- Process optimization & operations
- Near misses
- Analytical methods
- Failures and successes of troubleshooting efforts
- Plant operations



# ORGANIZER



## THREE TEN INITIATIVE TECHNOLOGIES LLP



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 APC & 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](mailto:info@the310i.com) P: +91-7330875310



# 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.



# THREE TEN INITIATIVE TECHNOLOGIES LLP

## CELEBRATING

# 7 YEARS

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



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+91-733 087 5310

@the310i

<https://the310i.com/>

@three-ten-initiative-technologies-llp/

[info@the310i.com](mailto:info@the310i.com)

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



# TITLE SPONSOR



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**AMETEK Process Instruments** is a worldwide manufacturer of process analyzers and instrumentation. Our primary focus in analyzer design is reliability. We understand that you must have confidence that the analyzer will provide the correct information when you need it. It is a documented fact that many of our analyzers have been in service for well over 20 years. Our core competencies include widely varying applications and industries such as: SRU + TGTU (Sulfur recovery processes), Combustion efficiency control / process heating, Natural gas processing and transmission Analysis of moisture in hydrocarbon gases and high purity gases  
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**Controls Southeast, Incorporated (CSI)** has been helping customers for almost 50 years to solve problems in the chemical, petrochemical, and processing industries. Our business is piping and specialty fabrication. Our expertise is the engineering, design, fabrication, and installation of piping and thermal maintenance systems. With each project, we strive to create a great customer experience which is summarized in our mission statement. CSI's products and services can be grouped into three broad categories: Heated piping systems (including ControTrace<sup>®</sup>, ControHeat<sup>®</sup>, and jacketed piping) Above Ground Sulfur Seal Pots In-Situ Pre-pit sulfur degassing  
For more information, visit <http://www.csiheat.com>

## Key Contact Information:

Jochen Geiger  
Rudolf Diesel Strasse 16  
40670 Meerbusch – Germany  
M: + 49 172 9098376  
T: + 49 2159 913613  
E: [jochen.geiger@ametek.de](mailto:jochen.geiger@ametek.de)

Sean Mathew  
Director, Business Development Asia Pacific  
Controls Southeast Inc.  
T: +91-9552516890  
E: [sean.mathew@ametek.com](mailto:sean.mathew@ametek.com)

## WE'RE COMMITTED TO YOUR EFFICIENCY

**Our analyzers make tough SRU work a little easier**

We know how hard it is to manage sulfur recovery unit (SRU) processes, and the levels of skill, concentration, and dedication your team needs.

We've been designing industry-standard SRU analyzers for decades, focusing on reliability, longevity, accuracy, robust design, and ease of use.





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From jacketed piping, ControTrace® bolt- on heating, SxSeal® sulfur traps, viewports and sample systems to ICon™ in-situ Claus Degassing technology we have the industry leading hardware to keep your sulfur plant up and running. At CSI we take it further with our engineered applications of products & technology to deliver a cost-effective solution that creates even heating throughout the unit. Global field support, 3D installation drawings, installation training and our manifold optimization scheme (MOS) is your guarantee that when you choose CSI you keep control of your capital project throughout construction, infrastructure and operation.

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**Kanzler Verfahrenstechnik GmbH (KVT)** is an Austrian process engineering company with worldwide operations and over 30 years of experience in developing, designing, and implementing innovative process plants. We deliver tailor-made engineering solutions for our customers including research & development as well as construction, commissioning, and start-up of industrial and pilot-scale plants.

The technology portfolio comprises:

- Renewable Production Plants: for Glycerine, Epichlorohydrin; Epoxy Resin; Glycerine Derivatives
- Wet Gas Sulfuric Acid: Sulfuric Acid recovery; Spent Acid Regeneration; Sulfuric Acid Production
- Environmental: Brine treatment; Catalytic Oxidation; sludge treatments; Incineration & Flue Gas Cleaning
- Unit Operation: Catalysts; Wet Electrostatic Precipitator; Hot Gas Filter; RTO.

**Key Contact Information:**

Robert Kahr, Head of Product Group OXYSULF

M: +43676845456212

E: [r.kahr@kvt.technology](mailto:r.kahr@kvt.technology)


A large industrial facility, likely a sulfuric acid plant, is shown at night. The structure is complex, with multiple levels of steel frameworks, pipes, and walkways. Numerous lights are illuminated, creating a bright, industrial atmosphere against the dark sky. The overall color palette is dominated by dark blues and greys, with highlights from the facility's lighting.

# kvt.technology

## WET SULFURIC ACID TECHNOLOGIES

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Wet process technologies for the recovery, regeneration and production of sulfuric acid from various types of off-gases containing sulfur compounds, spent acid or by sulfur burning.

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For over 48 years **Aecometric** has been a trusted name in providing industrial combustion equipment. The Aecometric Customized High Intensity Burner technology stands alone in performance, quality and reliability. The Aecometric burner design lends itself perfectly to the combustion needs of the Sulphur and Sulphuric Acid industry by providing maximum contaminant destruction, exceptional reliability and a high level of operational flexibility. Check out AECOMETRIC for High Intensity SRU Burners, Furnaces and more! Our team is ready to help.

**Key Contact Information:**

Mike Kolahdouzan

E: [mike.kolahdouzan@aecometric.com](mailto:mike.kolahdouzan@aecometric.com)



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## CONTACT US

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15 SIMS CRESCENT, UNIT 7, RICHMOND  
HILL, ONTARIO L4B 1C9, CANADA



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**The Comprimo group** is part of Worley and has the broadest technology portfolio on the market covering gas treating, sour water stripping, sulphur recovery, sulphur degassing and safe sulphur handling, storage and transportation solutions. Comprimo's team of global Sulphur Specialists provides technology selection, design, integration, complete delivery of modules, operations support and training. We are continuously working and improving on patented technology with regional industry and environmental regulators to deliver the best operational, economical, and sustainable outcomes for our customers – and get them ready for the future.

## **Key Contact Information:**

Rajendra Kamat  
Director, Engineering Technology  
Mumbai - India  
T: + 91 22 4965 4022  
E: Rajendra.kamat@worley.com

Mike Smeltink  
Senior Manager, Business Development, Comprimo  
The Hague - The Netherlands  
T: +31 88 625 8188  
E: Mike.smeltink@worley.com



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For over 60 years, **Industrial Ceramics Limited** has been a leading manufacturer and supplier of custom shaped refractory ceramics (ferrules) for use in the Petrochemical and Sulphur industries worldwide. We specialize in the design and manufacture of ceramic ferrules and inserts for the thermal protection of Waste Heat Boilers, as well as nozzles and shapes for specialized applications. Specifically, we are world renowned for the popular 2-piece Hexagon Head ferrule as well as our solid hexagon and square head designs. The products of Industrial Ceramics have been used extensively all over the world, and due to the high quality and reliability of products, as well as the unique Technical Services, is the first choice for most licensors and operators worldwide. Trust Industrial Ceramics Ltd for superior technical expertise and product reliability related to your refractory needs.

## Key Contact Information:

Mohsen Movahed, Regional Sales Manager

M: +90 531 858 8033

T: +1 (905) 878 2848 (Toronto Time)

E: [mohsen@industrialceramics.com](mailto:mohsen@industrialceramics.com)





# Industrial Ceramics Limited

Established 1946

Industrial Ceramics LTD (ICL) has been specializing in the manufacture of tubesheet protection systems (ferrules) and other speciality shapes for over 55 years.

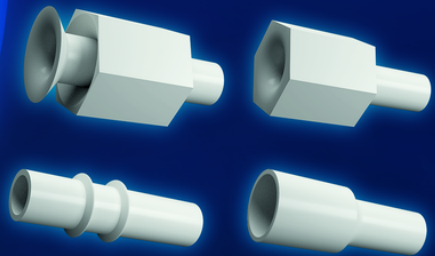
ICLs designs are used in plants all over the world, protecting WHBs from high temperature corrosion and degradation in SRUs, Methane Reformers, Sulphuric Acid plants and other Petrochemical applications.

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- RCA support – We can bring our wealth of experience to your RCA team if you are having tubesheet lining reliability issues.

## ICLs key market strengths are:

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At **P&P**, our unwavering commitment to sustainability takes centre stage. As a proven leader in spent sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) regeneration plants, we pioneer resource-efficient industrial solutions for a cleaner tomorrow. We are also a premier developer of cutting-edge waste gas cleaning systems using our proprietary catalysts. Our innovative processes not only facilitate the generation of clean, SO<sub>2</sub>, NO<sub>x</sub> and dust-free air but also deliver substantial cost savings in raw materials turning waste into value for clients. P&P is the preferred partner for a greener future when prioritizing reduced emissions, minimizing environmental impacts, and enhancing steam production.

## Key Contact Information:

Paul Zorn

M: +43 316 26 97 97-401

T: +43 664 88 47 61 18

E: [paul.zorn@pp-industries.at](mailto:paul.zorn@pp-industries.at)

[www.pp-industries.at](http://www.pp-industries.at)



## **Closing the Cycle – With circular economy into a clean and energy-efficient future**

The sustainability of process engineering is the top priority at P&P. As a leading provider of innovative waste gas cleaning systems, P&P develops resource-saving industrial solutions for a clean future. P&P is #1 in the world for spent sulfuric acid (H<sub>2</sub>SO<sub>4</sub>) regeneration plants. The P&P technology and profitability-oriented processes enable our customers to generate clean, SO<sub>2</sub>-free air from sulphur-containing waste gases or liquids, resulting in significant cost savings in raw materials and disposal. All of this with the greatest possible reduction of emissions and environmental impact. At P&P, the goal with the comprehensive product portfolio is not only to use raw materials in an environmentally friendly way, but also to make them usable again, thus closing the circle for sustainable industrial solutions:

- ...in the field of sulfuric acid technology: Spent acid is recycled and reprocessed thanks to Styrian know-how. P&P technology also enable the production of sulfuric acid in previously unattained energy efficiency.
- ...in the field of waste gas cleaning: Innovative processes ensure that harmful substances do not enter our environment and that the lowest emission values can be maintained.
- ...in the field of precious metal catalysts: P&P develops precious metal catalysts for many industrial requirements.

Green know-how from the green heart of Austria: P&P, headquartered in Raaba, with worldwide locations in Styria, Carinthia, the Czech Republic, and India, employs a total of around 180 employees. The P&P Group achieves a worldwide annual turnover of almost 50 million euros.



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**SLB (NYSE: SLB)** is a global technology company driving energy innovation for a balanced planet. With a global presence in more than 100 countries and employees representing almost twice as many nationalities, we work each day on innovating oil and gas, delivering digital at scale, decarbonizing industries, and developing and scaling new energy systems that accelerate the energy transition.

## **Key Contact Information:**

Chandresh Karuthapandi, Sales Lead

M: +91 (0) 84899 04880

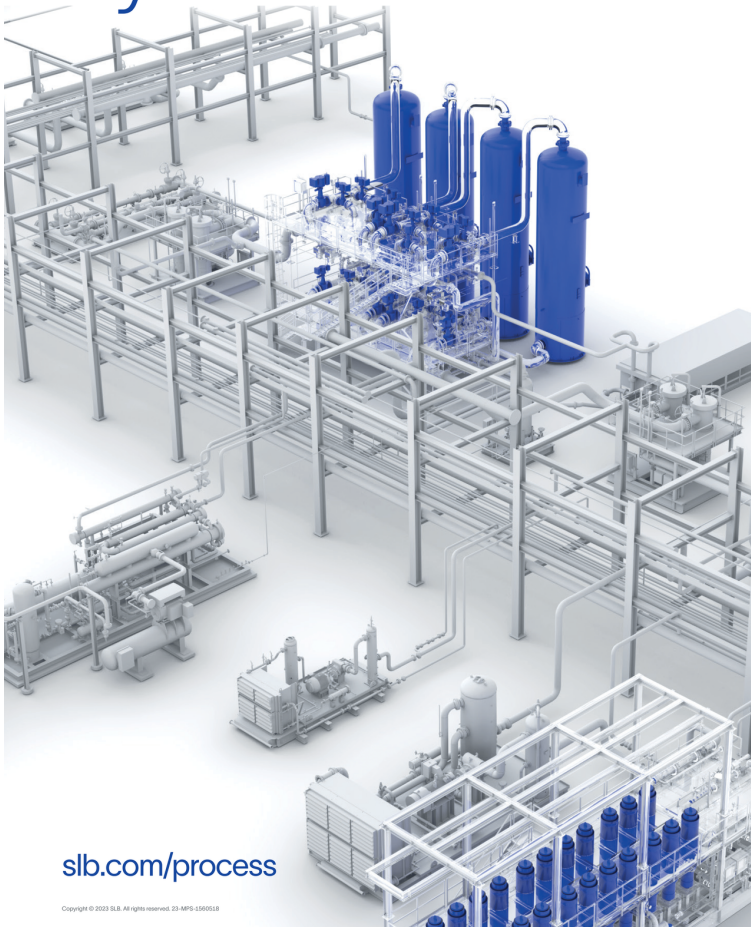
T: +91 (0) 422 399 5522

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# Process systems



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Since 1998, **Sulfur Recovery Engineering (SRE)** has helped Refineries, Gas Plants, and Engineering companies worldwide to achieve optimal performance of Amine and Sulfur Recovery Units. Services and solutions include On-site Testing, Troubleshooting, Shutdown and Start-up Assistance, Capacity and Debottlenecking Studies, Design Consultation, Dynamic and Steady State SRU Modeling, and SRU Training Seminars. SRE's services provide invaluable information regarding the materials and reactions taking place within processes, and how this impacts equipment, operations, and the bottom line. SRE provides solutions to operating problems, and helps clients to optimize performance, limit emissions, prevent unscheduled emergency plant shutdowns, and control costs.

## **Key Contact Information:**

Don Green, Partner and Lead Process Engineer

T: +1(403)874-4015

E: [info@sulfurrecovery.com](mailto:info@sulfurrecovery.com)

# SULFUR RECOVERY ENGINEERING

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**CECO Environmental** is a leading environmentally focused, diversified industrial company whose solutions protect people, the environment, and industrial equipment across the globe, serving a broad landscape of industrial air, industrial water, Oil & Gas, and energy transition markets.

**Transcend Solutions** manufactures efficient, innovative, and customized separations solutions that optimize critical customer processes in the hydrocarbon production and processing industries. We combine process engineering knowledge, separations technology and flexible manufacturing to develop root cause solutions for endemic process issues. CECO Environmental announced its acquisition of Transcend on April 3rd, 2023.

**Key Contact Information:**

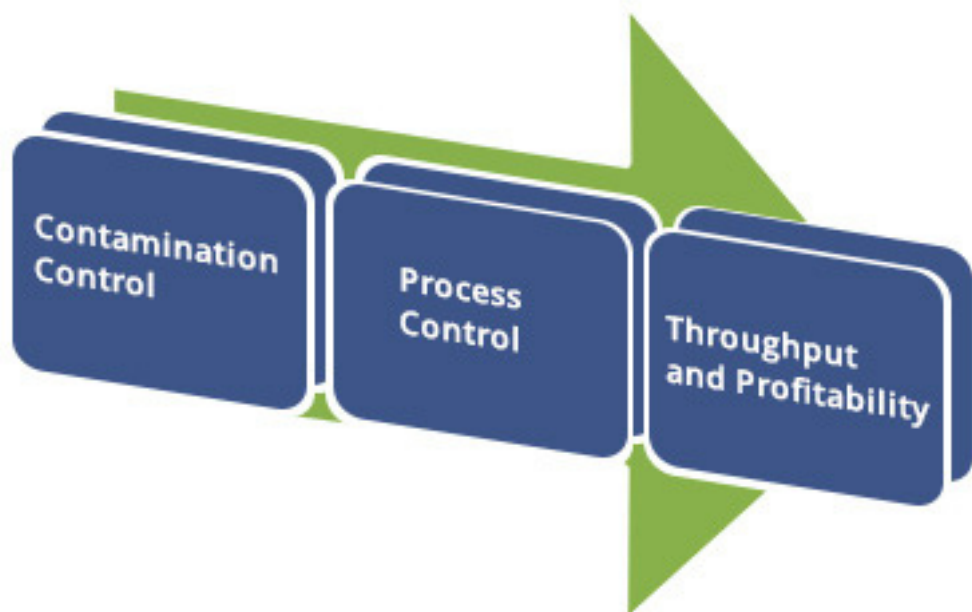
Indrajit Shirke

Regional Sales Director

M: +91 8956780052

E: [indrajit@onececo.com](mailto:indrajit@onececo.com)





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As a family-run business acting globally, with over 10,000 highly qualified employees, the WIKA group of companies is a worldwide leader in pressure and temperature measurement. The company also sets the standard in the measurement of level, force and flow, and in calibration technology. Founded in 1946, WIKA is today a strong and reliable partner for all the requirements of industrial measurement technology, thanks to a broad portfolio of high-precision instruments and comprehensive services. With manufacturing locations around the globe, WIKA ensures flexibility and the highest delivery performance.

## **Key Contact Information:**

Navjyot Singh, Sales Application Specialist, ETM

M : 9891156156

E: [Navjyot.Singh@wika.com](mailto:Navjyot.Singh@wika.com)



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# EXHIBITOR



## Chemtrols

**Chemtrols Industries Pvt. Ltd.** stands as a premier solutions provider, specializing in an array of sectors including Process Analytics, Continuous Emission and Environment Monitoring, Terminal Automation, Flow Metering, Process Control Instruments, Steam Engineering solutions, and Utility Management Systems. Our tailored services cater to diverse industries such as Cement, Steel, Oil & Gas, Power, Fertilizer, and Chemicals & Petrochemicals. Committed to delivering top-notch Quality Products and Services, we excel in all management facets, perpetually enhancing products, processes, and systems to satisfy customers, suppliers, employees, and stakeholders. Our stringent adherence ensures that our processes and products align with safety, health, and environmental standards. Spanning major Indian cities and the UAE, our extensive network, coupled with a cutting-edge manufacturing hub in Goa and global standard certifications, underscores Chemtrols' eminence in instrumentation. Our enduring alliances with customers and partners bolster our standing in engineering and instrumentation services. We prioritize a lucid project scope comprehension, adopt a methodical approach, define methodologies, secure customer approvals, and swiftly implement proposed solutions for optimal outcomes.

### Key Contact Information

Harish Wadhwa

M: +91 98208 18605

T: +91 (022) 6715 1413| Fax : +91 (022) 6715 1405

E: harish.wadhwa@chemtrols.com

W: www.chemtrols.com



**Optimized Gas Treating, Inc. (OGT)** provides the highly-respected mass transfer rate-based process simulator ProTreat® for gas treating, and the chemical reaction kinetics-based SulphurPro® simulator for SRUs. Both are solidly grounded in scientific and engineering principles and show an astonishing ability to predict performance with complete confidence and reliability. Major equipment vendors, E&C firms, most solvent suppliers, major oil refiners, and gas processors recognize ProTreat® as the industry's most powerful tool for designing, revamping, and troubleshooting gas treating plants. SulphurPro® ties directly into ProTreat® for easy simulation of gas treating and SRU complex. OGT also provides licensees with first-class technical support.

### Key Contact Information

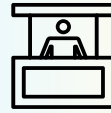
Mike Jakobs, President

M: +1 832 628 8081

T: +1 512-312-9424

E: mike.jakobs@ogtrt.com

# EXHIBITOR



**THERMAL<sup>®</sup>**  
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Thermal Systems (TSPL) is a leading EPC/OEM organization, with nearly four decades of expertise in delivering Concept to Commissioning solutions for Waste Heat Recovery Boilers and custom-designed heat recovery systems. TSPL's extensive experience spans in Refinery, Petrochemical, Chemical, Fertilizer, Ferrous & Non-Ferrous, and other process industries. Operating globally, TSPL has successfully completed projects in over 50 countries, with some of the largest installations worldwide. Supported by six specialized manufacturing facilities furnished with state-of-the-art work centres, TSPL ensures the manufacturing of high-quality products through adherence to rigorous quality assurance standards. TSPL holds recognition and approval from esteemed global EPCs and Process Licensors for various process applications. Discover more about our offerings at <https://www.thermalindia.com>

**Key Contact Information:**

Mr. Meher Prakash  
President – Sales & Marketing  
M: +91 78158 89647  
E: meher@thermalindia.com

Mr. Hemant V. Gupta  
DGM Marketing – Mumbai  
M: +91 96198 06596  
E: hemant@thermalindia.com



Shell Catalysts & Technologies is at the forefront of developing new services and technologies for the energy and petrochemical industries, including advanced catalysts for refining and petrochemicals, licensing and technical services, and extensive and collaborative services and support for customers worldwide. Shell Catalysts & Technologies is an affiliate of Royal Dutch Shell plc, a global group of energy and petrochemical companies with operations in more than 70 countries.

**Key Contact Information:**

Ganesh Kidambi, SME - Sulfur Recovery and Tail gas Treating  
T: +91-9900145535  
E: Ganesh.Kidambi@shell.com

# TOPSOE

Founded in 1940, Topsoe is a global leader in developing solutions for a decarbonized world, supplying technology, catalysts, and services for world-wide energy transition.

Our mission is to combat climate change by helping our partners and customers achieve their decarbonization and emission-reduction targets, including those in challenging sectors: aviation, shipping, and production of crucial raw materials. From low-carbon or zero-carbon chemicals to renewable fuels and plastic upcycling, we are uniquely positioned to aid humanity in realizing a sustainable future.

Topsoe is headquartered in Denmark, with 2,100 employees serving customers all around the globe.

**Key Contact Information:**

Igor Kostromin, Licensing Manager | Global Licensing  
T(direct): +45 27 75 28 64  
E: IGKO@topsoe.com

Sagar Shukla, Accounts Manager | M&S  
T(direct): 9560885443  
E: SSHU@topsoe.com



# Instruments & Analyzers for Sulphur Recovery Process



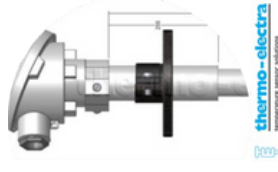
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## Key Contact Information:

BCInsight Ltd – Sulphur Magazine

Editor: Richard Hands E: [richard.hands@bcinsight.com](mailto:richard.hands@bcinsight.com)

Technical Editor: Lisa Connock E: [lisa.connock@bcinsight.com](mailto:lisa.connock@bcinsight.com)

Publishing Director: Tina Firman E: [tina.firman@bcinsight.com](mailto:tina.firman@bcinsight.com)

T: + 44 20 7793 2567

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# SESSION THEMES



1

Decarbonisation & Carbon Capture

2

Enhancing SRU Capacity & Recovery

3

Advances in SRU Instrumentation,  
Simulation & Control - I

4

SRU Waste Heat Boiler

5

Gas Processing

6

Operational Challenges with SRUs - I

7

Emission Reduction & Decarbonisation

8

Tail Gas Treating

9

Advances in SRU Instrumentation,  
Simulation & Control - II

10

Operational Challenges with SRUs - II



# CONFERENCE AGENDA



**Day 1 - Wednesday 31 January 2024**

All times are in IST (GMT +5.5 hours)

- 9:00 AM - 9:10 AM** Safety Briefing & Opening Remarks by Three Ten Initiative Technologies LLP
- 9:15 AM - 9:25 AM** Opening Remarks - [Ametek Process Instruments & Controls SouthEast Inc.](#)
- 9:30 AM - 9:50 AM** Key Note  
[S Bharathan, Director \(Refineries\), Hindustan Petroleum Corporation Ltd.](#)
- 9:55 AM - 11:25 AM** **Technical Session - SRU Best Practices on Predictive Maintenance & Operation**  
[Jochen Geiger & Sean Mathew](#) - Ametek Process Instruments & Controls SouthEast Inc.
- 11:25 AM - 11:55 AM** Tea & Networking Break
- Session 1 Theme: Decarbonisation & Carbon Capture**  
**Session Chair: Ganesh Kidambi, Shell India**  
**(11:55 AM - 12:15 PM)** - Energy from Waste: Use of Ammoniacal & Sulfurous Gases to abate CO2 emissions from Refinery  
[Igor Kostromin & Sagar Shukla, Topsoe](#)  
**(12:15 PM - 12:35 PM)** - Processing of Ammonia-rich Refinery Sour Gases and Converting to Valuable Products - An approach towards minimizing carbon foot print  
[Saptarshi Paul, Engineers India Limited](#)  
**(12:35 PM - 12:55 PM)** - Energy Optimization Using Power Recovery Turbines (PRTs) in Amine Sweetening Units  
[Aparna Saiju, SLB Oilfield Services Company](#)
- 11:55 AM - 12:55 PM**
- 12:55 PM - 13:10 PM** **Session 1 Panel Discussion**
- 13:10 PM - 14:10 PM** Lunch
- Session 2 Theme: Enhancing SRU Capacity & Recovery**  
**Session Chair: Jochen Geiger, Ametek Process Instruments**  
**(14:10 PM - 14:30 PM)** - New Low-density Titanium Dioxide Catalyst for Improved Sulphur Recovery  
[Johann Le Touze, AXENS](#)  
**(14:30 PM - 14:50 PM)** - Employing Effective Enrichment  
[Jyoti Bist, Fluor Daniel India Pvt. Ltd.](#)  
**(14:50 PM - 15:05 PM)** - Maximizing SRU Capacity: A Case Study on Optimizing Claus Furnace Temperature Through Oxygen and SO2 Introduction Methods  
[Kausik Ghosh Mazumder, Engineers India Ltd.](#)
- 14:10 PM - 15:05 PM**
- 15:05 PM - 15:20 PM** **Session 2 Panel Discussion**
- 15:20 PM - 16:05 PM** Tea & Networking Break
- Session 3 Theme: Advances in SRU Instrumentation, Simulation, and Control I**  
**Session Chair : Debopam Chaudhuri, Fluor India Pvt. Ltd.**  
**(16:05 PM - 16:25 PM)** - SRU Control Strategy Doubles Uptime With Measurement Certainty  
[Selwyn David Pandian, Galvanic Applied Sciences Inc.](#)  
**(16:25 PM - 16:45 PM)** - Kinetics-Based Sulfur Plant Models: Advancing Process Understanding  
[Hari Vamsi Duggirala, Three Ten Initiative Technologies LLP](#)  
**(16:45 PM - 17:05 PM)** - An Easy Way to Monitor Brick Falling and Revolutionary Method of Temperature Monitoring in a Claus Unit. A follow-up from the Past Year.  
[Bob Poteet, WIKA Alexander Wiegand SE & Co. KG](#)
- 16:05 PM - 17:05 PM**
- 17:05 PM - 17:20 PM** **Session 3 Panel Discussion**
- 17:25 PM - 17:45 PM** **Round Table Open House 1**
- 17:45 PM - 20:15 PM** Cocktail Dinner

*\*Times are subject to change at the discretion of the organizers*



# CONFERENCE AGENDA



Day 2 - Thursday 1 February 2024

All times are in IST (GMT +5.5 hours)

9:00 AM - 9:10 AM Opening Remarks by Three Ten Initiative Technologies LLP

9:15 AM - 10:15 AM

**Technical Session**  
**KVT Technology**

**Session 4 Theme: SRU Waste Heat Boilers**

**Session Chair: Roelof ten Hooven, Euro Support**

10:20 AM - 10:50 AM

**(10:20 AM - 10:35 AM)** - Root Cause Analysis of Multiple Tubes Failure in Waste Heat Boiler.

[Anurag Kumar, Mangalore Refinery and Petrochemical Ltd.](#)

**(10:35 AM - 10:50 AM)** - Refractory Design and Selection Key Issue in Performance of Claus Furnace

[Subhojeet Ghose & Prasenjit Pal, Engineers India Ltd.](#)

10:50 AM - 11:00 AM

Session 4 Panel Discussion

11:00 AM - 11:30 AM

Tea & Networking Break

**Session 5 Theme: Gas Processing**

**Session Chair: Ratheesh S, Bharat Petroleum Corporation Limited**

**(11:30 AM - 11:50 AM)** - Consequences of Contamination in Cryogenic Heat Exchangers

[Arvind Chaturvedi, Transcend Solutions LLC](#)

11:30 AM - 12:45 PM

**(11:50 AM - 12:10 PM)** - Attacking Amine Foaming Through Enhancement of Operational and Design Aspects

[Mohd Firdaus Sabturani, PETRONAS](#)

**(12:10 PM - 12:30 PM)** - Thiopaq O&G: Application in Gas Sweetening and Sulfur Recovery (Project Experiences)

[Srinivas Vadlamani & Arthur van Asbeck, SLB & Paqell](#)

12:45 PM - 13:00 PM

Session 5 Panel Discussion

13:00 PM - 14:00 PM

Lunch

**Session 6 Theme: Operational Challenges with SRUs 1**

**Session Chair: Manu Miglani, Engineers India Limited**

**(14:00 PM - 14:20 PM)** - New SRU Block at HPCL, Visakh Refinery

[Ellen Ticheler, Worley Comprimio](#)

14:00 PM - 14:40 PM

**(14:20 PM - 14:40 PM)** - Alarm Management & Operator Training for a Sulphur Recovery Unit- A Step Towards Safe SRU Plant Operation

[Pranay Singh, Fluor Daniel India Pvt. Ltd.](#)

14:40 PM - 14:50 PM

Session 6 Panel Discussion

14:50 PM - 15:35 PM

Tea & Networking Break

**Session 7 Theme: Emission Reduction & Decarbonisation**

**Session Chair: Ritesh Gulabani, Dow Chemical IMEA GmbH**

**(15:35 PM - 15:55 PM)** - The Sulfuric Acid Recovery from Waste Gas: An Improved Reliable Technology Lowering Emissions

[Robert Kahr & Vishwas Joshi - KVT Technology](#)

15:35 PM - 16:45 PM

**(15:55 PM - 16:15 PM)** - Synergizing Sustainability and Energy: Membrane Technology for Enhanced Natural Gas Treatment and Emission Reduction

[Nishevitha U.G. SLB](#)

**(16:15 PM - 16:30 PM)** - Novel Catalysis for CCU in Futuristic Green Refineries: A Review

[Dr. Ritesh Mittal, Engineers India Ltd.](#)

**(16:30 PM - 16:45 PM)** - Mechanical Vapor Recompression of Steam Carbon Dioxide for Energy Conservation in Carbon Capture and Fertilizer Plants

[Dr. Phaneswararao Damaraju, IIT Delhi](#)

16:45 PM - 17:05 PM

Session 7 Panel Discussion

17:05 PM - 17:35 PM

Round Table Open House 2

*\*Times are subject to change at the discretion of the organizers*



# CONFERENCE AGENDA



**Day 3 - Friday 2 February 2024**

All times are in IST (GMT +5.5 hours)

**9:00 AM - 9:10 AM** Opening Remarks by Three Ten Initiative Technologies LLP

**Session 8 Theme: Tail Gas Treating**

**Session Chair: Srinivas Vadlamani, SLB**

**(9:15 AM - 9:35 AM)** - Performance of Titania Based Tail Gas Catalyst at Start-up

[Brecht Berben, Euro Support](#)

**(9:35 AM - 9:50 AM)** - A Wholistic Approach to TGTU Operations

[Akash Mendpara, Sulfur Recovery Engineering](#)

**(9:50 AM - 10:05 AM)** - Study of SO<sub>2</sub> Breakthrough and Ways to Prevent and Mitigate It in Tail Gas Unit.

[Ganesh Gujar, Bharat Petroleum Corporation Ltd.](#)

**9:15 AM - 10:05 AM**

**10:05 AM - 10:20 AM** Session 8 Panel Discussion

**10:20 AM - 11:05 AM** Tea & Networking Break

**Session 9 Theme: Advances in SRU Instrumentation, Simulation, and Control 2**

**Session Chair: Sagar Shukla, Topsoe**

**(11:05 AM - 11:25 AM)** - How to Optimize Sulfur Recovery Plant Emissions during Plant Upset Conditions, using Information Provided by Process Instrumentation

[Jochen Geiger, Ametek Process Instruments](#)

**(11:25 AM - 11:40 AM)** - Auto Loading Scheme for MCC Air Blowers using ADA Signal & Discharge Pressure

[Nirmalya Nandi, Bharat Petroleum Corporation Limited](#)

**(11:40 AM - 11:55 AM)** - The Digital Process Monitor (DPM): Digitalization Aiming to Process and Environmental Excellence

[Daniela Boni, NextChem](#)

**(11:55 AM - 12:10 PM)** - Predicting Ammonia Destruction in Sulfur Recovery Units Through a Detailed Reaction Mechanism

[Dr. Abhijeet Raj, IIT Delhi](#)

**11:05 AM - 12:10 PM**

**12:10 PM - 12:30 PM** Session 9 Panel Discussion

**12:30 PM - 13:30 PM** Lunch

**Session 10 Theme: Operational Challenges with SRUs 2**

**Session Chair: Rajesh Nandanwar, Bharat Petroleum Corporation Limited**

**(13:30 PM - 13:50 PM)** - Commissioning and Pre-Commissioning Challenges of Sulphur Recovery Block

[Abhijit Kumar Ram, Engineers India Ltd.](#)

**(13:50 PM - 14:05 PM)** - Sulfur Tank Fires - Causes and Mitigations

[Jignesh Desai, Fluor Daniel India Pvt. Ltd.](#)

**(14:05 PM - 14:20 PM)** - Best Practices in Sulphur Recovery Units

[Ratheesh S, Bharat Petroleum Corporation Ltd. - Mumbai Refinery](#)

**13:30 PM - 14:20 PM**

**14:20 PM - 14:35 PM** Session 10 Panel Discussion

**14:35 PM - 14:55 PM** Round Table Open House 3

**14:55 PM - 15:10 PM** Closing and Adjournment

*\*Times are subject to change at the discretion of the organizers*



# KEYNOTE SPEAKER



## **S. Bharathan**

Director - Refineries

***Hindustan Petroleum Corporation Limited***

S. Bharathan, Director-Refineries at Hindustan Petroleum Corporation Ltd., possesses a rich legacy in the energy industry. As a board member in various subsidiaries like HRRL, HMEL, MRPL, HBL, PPCL, and RRPCL, he's consistently driven innovation. With a Post Graduate degree in Chemical Engineering, he boasts 25 years of hands-on experience in Operations and Technical realms at HPCL's Visakh and Mumbai Refineries, followed by 4 years in Corporate Office focusing on Margin Management & Project Processes. He has been leading HPCL's Green R&D Centre in Bengaluru for 3 years prior to becoming Director - Refineries. Bharathan has steered transformative projects, leading cutting-edge technologies and unit commissioning. His forte lies in refining operations, technology commercialization, and R&D-driven product development.

# ADVISORY COMMITTEE & SESSION CHAIRS

## Debopam Chaudhuri

### *Fluor Daniel India Private Limited*

Debopam Chaudhuri is a Process Engineer with Fluor Daniel India in New Delhi, and he is the subject matter expert of sulfur recovery processes. He has 21 years of experience in petroleum refining, petrochemical complexes and upstream projects. Mr. Chaudhuri earned BTech degrees in chemistry and chemical engineering from the University of Calcutta.

**\*Chair - Session 3 - Advances in SRU Instrumentation, Simulation, and Control - I**

## Ganesh Kidambi

### *Shell India*

Ganesh Kidambi is the Subject matter expert for Sulfur Recovery and Tail gas treating in Shell. He has over 17 years of experience in Gas Treating, Sulfur recovery, Gas processing, Gasification and carbon capture technologies encompassing Technology Maturation, Design, Troubleshooting operations and start-up. His current areas of work are the piloting of the Shell Cansolv Carbon capture Solvent in Norway and maturation of the JEFFTREAT@ULTRA solvent (With Huntsman) and SCOT ULTRA technologies. He represents Shell as the technical advisor on research programs and technical conferences. Prior to Shell, he worked in Product development and Design of Integrated gasification combined cycle systems at General Electric.

**\*Chair - Session 1 - Decarbonisation & Carbon Capture**

## Jochen Geiger

### *Ametek Process Instruments*

Jochen Geiger started to work in the Process Analyzer business in 1979 as Field Service Engineer. In 1989 he became the Product Manager for Industrial Process Analyzers. At this time he did new application developments for several industrial applications. His main activities were associated with Oil Refineries. 1997 Mr. Geiger joined AMETEK Europe as a Sales Manager for the Process Analytical Business Unit in Germany and Eastern Europe. Since 2002 he is in his current position. Mr. Geiger is in charge of Sales and Service support offices located in Germany; France, the Middle East and India. Through a team of Sales and Service Managers he leads a Network of Distributors and Sales Representatives in the entire territory. All are highly specialized into industrial applications. Mr. Geiger is a specialist for industrial instrumentation (Process Analyzers) in the chemical industry. He has provided training courses in Chemical Plants; Refineries and Oil and Gas Production Sites around the globe. He is frequently invited as guest speaker for various International Seminars and Meetings

**\*Chair - Session 2 - Enhancing SRU Capacity & Recovery**

**\*\*Speaker - Session 9 - How to Optimize Sulfur Recovery Plant Emissions during Plant Upset Conditions using Information Provided by Process Instrumentation**

## Manu Miglani

### *Engineers India Limited*

Manu Miglani, graduated in Chemical Engineering from Panjab University, Chandigarh in 1993. He is currently working as General Manager - Process Design & Development Division of Engineers India Limited. He has been involved in a number of Pipeline, Gas Processing, Offshore, Refining and Sulphur Projects. He is actively associated in activities like conceptual refinery configuration studies, preparation of feasibility reports for grass root / revamp projects, process design for open art facilities, Energy management studies, residual process design for licensed units and trouble-shooting activities.

**\*Chair - Session 6 - Operational Challenges with SRUs - I**

# ADVISORY COMMITTEE & SESSION CHAIRS

## Rajendra Kamat

### *Worley India*

Rajendra Kamat has 30 years of experience in various process engineering activities. He has been involved in conceptual studies, front end engineering design, basic engineering and detailed process engineering phases of various refinery, petrochemical and chemical projects. He has worked with all leading licensors for refinery and petrochemicals. He is also group leader of Mumbai technology group. He is responsible for all sulfur related projects like basic engineering, detailed engineering etc. He has designed sour water stripper and amine recovery unit basic design and has also supervised basic engineering projects for VCM, PVC, EO/EG and other process units. He is responsible for engineering activities for domestic projects.

## Rajesh Nandanwar

### *Bharat Petroleum Corporation Limited*

Rajesh Nandanwar completed his B.Tech (Petrochemicals) in 1996. He has a total of 22 years of experience in oil & gas sector. Rajesh is currently working with Bharat Oman Refineries Ltd. in the Operation & Technical Services dept. His major field of work is in energy improvement, hydrogen generation and Sulphur recovery unit. Rajesh worked at various levels from project, commissioning to unit stabilization. He also has the experience of process evaluation of new projects & revamp modifications of existing units. Rajesh thrives for energy/ process safety/reliability improvement in process units through process modification, adoption of new technologies and implementation of same. Rajesh is instrumental in the plant troubleshooting & stabilization. He also conducts critical review of plant performance and analysis of the plant issues. Rajesh is open to sharing his knowledge at various platforms for the benefit of industry.

*\*Chair - Session 10 - Operational Challenges with SRUs - II*

## Ratheesh S

### *Bharat Petroleum Corporation Limited*

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 Musaliar 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.

*\*Chair - Session 5 - Gas Processing*

*\*\*Speaker - Session 10 - Best Practices in Sulphur Recovery Units*

## Ritesh Gulabani

### *Dow Chemical IMEA GmbH*

Ritesh Gulabani is the TS&D focal point for Dow's energy business in the IMEA region. His responsibilities include delivering the technical service program and driving innovation projects for Dow's gas processing and heat management portfolios, along with implementation of sustainability, digitalization and customer experience management initiatives. He has 18+ years of industrial experience across functions and technology platforms. He is an M.Tech. in Chemical Engineering from IIT Kanpur, with GBPL (Six Sigma) and LST (Sustainability) certifications, an Associate Member (The Indian Institution of Engineers), a co-inventor on 3 granted patents and a co-author of 10 technical / conference publications.

*\*Chair - Session 7 - Emission Reduction & Decarbonisation*



# ADVISORY COMMITTEE & SESSION CHAIRS

## Roelof ten Hooven

### *Euro Support*

Roelof ten Hooven recently assumed the position of Business Manager Sulfur Recovery Catalysts at Euro Support. In this role, he serves global customers with technical support and the supply of Claus and Tail Gas Catalysts. After obtaining his B.Sc. degree in Aerospace Engineering at Delft University of Technology, he started working in the sulfur industry in 2012. His experience includes preliminary design, cost estimations, sales, business and product development of combustion equipment. Roelof is a dedicated father of two young children who loves spending time outdoors.

**\*Chair - Session 4 - SRU Waste Heat Boilers**

## Sagar Shukla

### *Topsoe*

Sagar Shukla has more than 23 years' experience in Operations, Process, Projects, Business Development, Contracts and Licensing. Currently he is working as a National Sales & Licensing Manager for Topsoe India in Environmental technologies. He holds bachelor's degree in chemical and management degree from FMS Delhi. He had been involved in various projects pertaining to Environmental Management for Refiner and Viscose units in India. He was instrumental for conceptualising various revamp projects in Fertilizer Industries for capacity expansion and reducing Specific Energy of Plants. He was responsible for value creation for clients in Hydro Cracking and hydrotreating for Indian Refiners. He has also been instrumental in building Sulfuric acid Solutions for various Indian clients in field of Speciality Chemicals, Steel, Metallurgy Industries etc.

**\*Chair - Session 9 - Advances in SRU Instrumentation, Simulation, and Control - II**

**\*\*Speaker - Session 1 - Energy from Waste: Use of Ammoniacal & Sulfurous Gases to abate CO2 Emissions from Refinery**

## Srinivas Vadlamani

### *SLB*

Srinivas C Vadlamani is a Technology Manager-Gas Processing at Schlumberger India, where he leads the Gas engineering group and is responsible for the design and operations of gas processing plants with various technology best fits for challenging fields around the world. He is also the SME in gas group at Schlumberger and Principal Trainer for membrane-based technologies. He has over 15 years of experience in the chemical industry and more than 12 years in the oil and gas industry, having previously worked with GE Energy in gasification and IGCC and with UOP as Technology Specialist. He holds a B. Tech in Chemical Engineering and a Master's degree in Plant Design from NITK Surathkal.

**\*Chair - Session 8 - Tail Gas Treating**

**\*\*Speaker - Session 5 - Thiopaq O&G: Application in Gas Sweetening and Sulfur Recovery (Project Experiences)**



# SPEAKER PROFILES



## Session 1: *Decarbonisation & Carbon Capture*



**Igor Kostromin**

**Topsoe**

Igor Kostromin is a dynamic Licensing Manager at Topsoe, leveraging extensive experience in Technical proposal development, Contracts negotiation, and Licensing of diverse Topsoe technologies. Originally a Russian Citizen, Igor currently operates from Denmark, bringing a global perspective to his role. His expertise extends to presenting papers in various international forums, showcasing his wealth of knowledge. Particularly passionate about sharing his experience with the WSA solution, Igor emphasizes a case story from India. Through his strategic insights and cross-cultural expertise, he plays a pivotal role in driving Topsoe's licensing initiatives, contributing to the company's success on a global scale.



**Sagar Shukla**

**Topsoe**

Sagar Shukla has more than 23 years' experience in Operations, Process, Projects, Business Development, Contracts and Licensing. Currently he is working as a National Sales & Licensing Manager for Topsoe India in Environmental technologies. He holds bachelor's degree in chemical and management degree from FMS Delhi. He had been involved in various projects pertaining to Environmental Management for Refiner and Viscose units in India. He was instrumental for conceptualising various revamp projects in Fertilizer Industries for capacity expansion and reducing Specific Energy of Plants. He was responsible for value creation for clients in Hydro Cracking and hydrotreating for Indian Refiners. He has also been instrumental in building Sulfuric acid Solutions for various Indian clients in field of Speciality Chemicals, Steel, Metallurgy Industries etc.



**Saptarshi Paul**

**Engineers India Limited**

Saptarshi Paul, a seasoned professional with over 10 years of expertise, is well-versed in design, basic engineering, detail engineering, and troubleshooting of Sulphur Recovery Units, Oxygen enrichment in SRU, and Tail Gas Treating Units. His extensive experience extends to active participation in commissioning and start-up activities across various Indian refineries. Currently serving as a Senior Manager in the Research and Development Division at Engineers India Limited (EIL) in the Gurgaon office, Saptarshi plays a crucial role in advancing research and development initiatives within the organization. His contributions underscore a commitment to excellence in the oil and gas industry.



**Aparna Saiju**

**SLB Oilfield Services Company**

Aparna Saiju, a Process System Product Engineer at SLB Oilfield Services in Coimbatore, India, brings over four years of expertise in the Midstream Production System. Graduating in Chemical Engineering from Government Engineering College Kozhikode in 2019, she swiftly transitioned from Refinery operations to her current role, showcasing proficiency in gas treatment technologies. Aparna has excelled in international projects, contributing to the optimization of Gas Dehydration Units, Amine Sweetening Units, MEG Technologies, and Hydrocarbon Dew Pointing Units. In addition to her technical prowess, she assumes leadership roles, spearheading the SLB Eureka Analytical Chemistry Special Interest Group and actively participating in the SLB HSE Emergency Rescue Team and Women in Core Engineering Program (WICE). Outside her professional sphere, Aparna is dedicated to family, local voluntary activities, and prioritizes her health and fitness, embodying a holistic lifestyle.



# SPEAKER PROFILES



## Session 2: *Enhancing SRU Capacity & Recovery*



**Johann Le Touze**

***Axens***

Johann Le Touze, currently the Lead Sulphur Recovery Technology Engineer at Axens within the Acid Gas Group – Low Carbon Solutions & Gas Product Line. With a career spanning back to 2013, he commenced as an R&D engineer and later transitioned into the role of Marketing & Business Line manager for a leading TiO<sub>2</sub> manufacturing company. Johann holds an Advanced Master degree in Chemical Engineering from ESPCI - Ecole Supérieure de Physique et de Chimie Industrielles de la ville de Paris and a Master of Science degree in Chemical Engineering & Materials Science from Doshisha University, Kyoto, Japan. His versatile background positions him as a key player in advancing sulphur recovery technology.



**Jyoti Bist**

***Fluor Daniel India Pvt. Ltd.***

Jyoti has 13 years of experience in process engineering. She has worked extensively in multiple sulfur recovery units and at various levels of project execution phase (Licensor PDP, FEED and EPC). Her experience also includes front end engineering & design activities for petroleum refinery units like Hydrogen Plant, Ammonia Plant, Diesel HT Plant. She also has experience in chemical process units like Linear Alpha Olefins.



**Kausik Ghosh Mazumder**

***Engineers India Limited***

Kausik G. Mazumder embarked on his professional journey as an R&D engineer, making significant contributions to diverse projects as a licensor of SRU. His focus on developmental work in sulfur plants set the foundation for his career. Over the last 8 years, Kausik has excelled as a Process Designer, specializing in Licensor selection, Licensor BEDP, and EPC execution. A prolific contributor to the field, he has published and presented over 15 papers on sulfur recovery and gas processing at international and domestic conferences. Kausik G. Mazumder's innovative prowess is evident with 8 patents bearing his name, showcasing his dedication to advancing the industry.

## Session 3: *Advances in SRU Instrumentation, Simulation, and Control - I*



**Selwyn David Pandian**

***Galvanic Applied Sciences Inc.***

Selwyn David Pandian is the General Manager - Sales for Middle East, Africa, and West Asia at Galvanic Applied Sciences, Inc. With 22 years of sales and marketing experience in instrumentation, he manages gas and liquid analyzer sales in these regions. Selwyn has a Master of Business Administration (M.B.A.) degree and an Engineer's degree in Electronic Instrumentation.



# SPEAKER PROFILES



## **Hari Vamsi Duggirala**

### ***Three Ten Initiative Technologies LLP***

Hari Vamsi Duggirala presently serves as a Process Simulation Engineer at Three Ten Initiative Technologies LLP, where he has over 1.5 years of professional experience. He achieved the distinction of being a gold medalist in the Department of Chemical Engineering at Gayatri Vidya Parishad College of Engineering (A), affiliated with JNTU Kakinada. His areas of interest encompass innovative decarbonization technologies and guiding industries in their transition towards a sustainable future.

## **Bob Poteet**

### ***WIKA Alexander Wiegand SE & Co. KG***

Bob Poteet, Director of Technology for WIKA, has over 35 years' experience in providing solutions to energy industries. Bob was one of the pioneers in Radial Temperature Profiling and is listed on two patents in the field. Bob joined Gayesco International in 2010 and is currently serving as Director of Technology for the WIKA Global Center of Excellence group. Bob graduated in 1982 with his degree in Industrial Distribution from Texas A&M University.

## **Session 4: *SRU Waste Heat Boilers***

## **Anurag Kumar**

### ***Mangalore Refinery and Petrochemicals Ltd.***

Mr. Anurag Kumar is a mechanical design engineer by profession, working with Mangalore Refinery and Petrochemical Ltd. India's largest PSU refinery at single location. He has 8 years of experience in the Mechanical design of Piping design, Stress analysis, and Static equipment design. He is adequately conversant with Pressure vessel design software and other FEA software which helps in troubleshooting the problems wherever arise in the Refinery or Petrochemical complex of MRPL.

## **Subhojeet Ghose**

### ***Engineers India Limited***

Mr. Subhojeet Ghose is an API 936 certified refractory specialist with over 10 years of experience at Engineers India Limited. Holding a B. Tech in Ceramic Engineering from the National Institute of Technology, Rourkela (2013), and a PGDM in Operations Management from the Institute of Management & Technology Ghaziabad (2019), he excels in refractory design, engineering, and inspection. Currently serving as Manager, Mr. Ghose's expertise extends to various fired equipment in the oil and gas industries, encompassing insulation, fireproofing, and job specifications. His certification by the American Petroleum Institute (API 936) underscores his commitment to excellence in the field.



# SPEAKER PROFILES



**Prasenjit Pal**  
*Engineers India Limited*

Prasenjit Pal, an Asst. General Manager in Engineers India Limited's Specialist Materials & Maintenance Service division, holds an M.Tech in Ceramic Technology from IIT Varanasi. With 16+ years at EIL, he is an API 936 certified refractory specialist, contributing extensive expertise in refractory design, engineering, and application supervision in oil & gas industries. Prasenjit is a key figure in refractory training, conducting sessions for in-house teams and client engineers. His current role involves refractory selection, drawing approval, bill of materials preparation, procurement inspection, installation, shutdown inspections, and troubleshooting. He excels in FCCU, Fired Heaters, Hydrogen reformer, SRU Combustion chamber/Reaction furnace, Incinerator, Boilers, and Converters in oil refineries and petrochemical plants.

## Session 5: *Gas Processing*



**Arvind Chaturvedi**  
*Transcend Solutions LLC*

Arvind Chaturvedi, a Chemical Engineer from IIT Varanasi and MBA from the University of Bath, UK, boasts 30+ years as a Business Leader and Turnaround Specialist in manufacturing, design engineering, oil and gas, and specialty chemicals. Holding key roles in CXO positions, General Management, and Business Development, he excels in the Middle East and India markets. Arvind specializes in Filtration, advancing Separation Technology for refineries, gas processing, petrochemicals, and power plants. His impact extends to diverse industries like Design Engineering, Flame Retardant Additives, Petroleum, Refining, Oil Field Chemicals, Water Treatment, and Petrochemicals, showcasing a versatile and impactful career.



**Mohd Firdaus Sabturani**  
*PETRONAS*

Mohd Firdaus Sabturani is a seasoned Process Engineer, accumulating over 15 years of expertise in feasibility studies, basic and detailed process design, troubleshooting, process and utility simulations, and process optimization. His proficiency extends to capital project execution, plant construction, commissioning, start-up, and plant turnaround. Currently serving as a Technical Professional (Staff Engineer) in PETRONAS Group Technical Solutions, he holds a pivotal role in providing technical leadership and consultancy services groupwide. In his prior role at the PETRONAS LNG Complex in Bintulu, he contributed as a Staff Engineer (Gas Treating), focusing on the front-end section of MLNG SATU and DUA.



**Srinivas Vadlamani**  
*SLB*

Srinivas C Vadlamani is a Technology Manager-Gas Processing at Schlumberger India, where he leads the Gas engineering group and is responsible for the design and operations of gas processing plants with various technology best fits for challenging fields around the world. He is also the SME in gas group at Schlumberger and Principal Trainer for membrane-based technologies. He has over 15 years of experience in the chemical industry and more than 12 years in the oil and gas industry, having previously worked with GE Energy in gasification and IGCC and with UOP as Technology Specialist. He holds a B. Tech in Chemical Engineering and a Master's degree in Plant Design from NITK Surathkal.



# SPEAKER PROFILES



**Arthur van Asbeck**  
*Paqell*

Arthur van Asbeck is Business Development Manager at Paqell, a Shell and Paques joint venture that specializes in biological desulfurization technology for the oil and gas industry. With a professional tenure spanning 11 years, Arthur has dedicated six years specifically to the sulfur domain. His expertise in sulfur evolved working for a prominent Claus burner supplier. Currently, Arthur is channelling his knowledge into promoting Thiopaq O&G, the desulfurization process which uses microorganisms as a catalyst. Arthur holds a bachelor's degree in mechanical engineering.

## **Session 6: Operational Challenges with SRUs - I**



**Ellen Ticheler**  
*Worley Comprimo*

Ellen Ticheler, a 1996 graduate in B. Sc. Chemical Technology Engineering from the College of Technology, Amsterdam, began her career as a Process Operator with ATO FINA, Rotterdam, Netherlands. Joining Comprimo in 2001 as a process engineer, she has become a seasoned professional in gas treating and sulphur technology. Ellen excels in process design for gas treating and sulphur recovery units, offering operational support through start-ups, troubleshooting, and operator training. Beyond engineering, she serves as the Project Manager for Technical Services Support at Comprimo, a part of the Worley group, overseeing custom assistance globally and ensuring client satisfaction from project initiation to completion.



**Pranay Singh**  
*Fluor Daniel India Pvt. Ltd.*

Pranay has nearly 14 years of experience in EPC industry and more than 10 years with Fluor in Process Technology function. He has worked on a wide variety of Key Projects with Fluor for their clients worldwide such as Shell, KNPC, KIPIC, Pertamina, Galp, FCL Canada, SaudiPhos to name a few. He had a significant site exposure as he was the Joint Venture Program Lead in ZOR Project & delivered the Operator Training Simulator to KIPIC Refinery Operations personnel at Al Zour Site. He has presented a wide range of Technical papers in International and National publications and has also participated in various industry interactions.

## **Session 7: Emission Reduction & Decarbonisation**



**Robert Kahr**  
*Kanzler Verfahrenstechnik GmbH*

Robert Kahr, after completing his master's degree in chemical engineering, embarked on his professional journey at Kanzler Verfahrenstechnik GmbH (KVT). He joined the development team specializing in sulfuric acid-related technologies, particularly OXYSULF. Over the past two decades, Robert has played a pivotal role in overseeing OXYSULF projects worldwide, accumulating extensive experience in project management, process engineering, and plant commissioning in the field of environmental technologies developed by KVT. Currently, he leads the OXYSULF product group, taking charge of all projects related to sulfur processing.



# SPEAKER PROFILES



## **Vishwas Joshi** (\* For KVT Technology Technical Session) **Rickermann India Pvt. Ltd.**

Vishwas K. Joshi is a Mumbai University graduate in Chemical Engineering, furthering his academic pursuits with a PGDM in Management Studies. With a robust career spanning over 30 years, he has excelled in Business Development for Process Technology and Project Sales. Vishwas holds extensive expertise in International Project selling. Since 2021, he has served as the head of the Indian office for Rickermann India, playing a pivotal role in establishing Rickermann's footprint in the expansive Indian Oil & Gas industry. His leadership has been instrumental in navigating the company's successful presence in India.

## **Nishevitha U G** **SLB**

Nishevitha U G, a Chemical Engineer from Anna University, Chennai, boasts over a decade of engineering design expertise in the Oil & Gas Industry. Beginning her journey at Honeywell, UOP (Gurgaon), she excelled as a process engineer, contributing to the design of CCR Platforming Units and Naphtha Hydrotreating Process units for refinery projects. Later, at Honeywell India Technology Center (HITC), she operated pilot plants for Diesel Hydrotreating and Hydrocracking Units. In 2018, she joined SLB as a Process Engineer, showcasing proficiency in TEG Dehydration, Mechanical Refrigeration, Amine Gas Sweetening, MEG Reclamation, and CO<sub>2</sub> & H<sub>2</sub>S removal membranes. Currently, she leads a team in SLB, Coimbatore, overseeing Membrane tendering and execution activities.

## **Dr. Ritesh Mittal** **Engineers India Limited**

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.

## **Dr. Phaneswararao Damaraju** **IIT Delhi**

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.



# SPEAKER PROFILES



## Session 8: *Tail Gas Treating*



**Brecht Berben**  
*Euro Support*

Brecht Berben holds a Bachelor's degree in Chemistry, specializing in Analytical Chemistry, from the University of Applied Sciences in Utrecht, Netherlands. Following this, he pursued a Master's degree in Science and Business Management at Utrecht University. Currently, in his first post-graduate position since October 2022, Brecht is contributing to Euro Support with enthusiasm and dedication. His educational background and professional journey reflect a solid foundation in both scientific and business domains, positioning him as a valuable asset in his early career endeavors.



**Akash Mendpara**  
*Sulfur Recovery Engineering*

Akash Mendpara is a dedicated Process EIT with a Master's degree from the University of Calgary and a Bachelor's in Chemical Engineering from Nirma University. With a year and a half of valuable experience at SRE, he has been actively involved in assisting oil & gas clients in SRU startups, shutdowns, and Performance Evaluations. This has provided him with extensive global exposure in countries such as Canada, USA, Germany, and Malaysia. As a committed member of APEGA, Akash holds the Engineer in Training designation, reflecting his dedication to engineering ethics and a strong commitment to professional growth in the field.



**Ganesh Gujar**  
*Bharat Petroleum Corporation Ltd.*

Ganesh Gujar is a seasoned Manufacturing Executive with over 10 years of expertise in Sulphur Recovery and molten sulphur handling. Specializing in Amine Regeneration and Sour Water Stripping units, he possesses comprehensive knowledge in the shutdown and startup procedures of Sulphur Recovery units. Ganesh takes on a leadership role, overseeing panel operations, field operations, and managing work permit systems. His hands-on experience extends to the intricate processes of Sulphur Recovery unit plant operations, showcasing his proficiency in handling critical responsibilities and ensuring operational excellence in the field.

## Session 9: *Advances in SRU Instrumentation, Simulation, and Control - II*



**Jochen Geiger**  
*Ametek Process Instruments*

Jochen Geiger started to work in the Process Analyzer business in 1979 as Field Service Engineer. In 1989 he became the Product Manager for Industrial Process Analyzers. At this time he did new application developments for several industrial applications. His main activities were associated with Oil Refineries. 1997 Mr. Geiger joined AMETEK Europe as a Sales Manager for the Process Analytical Business Unit in Germany and Eastern Europe. Since 2002 he is in his current position. Mr. Geiger is in charge of Sales and Service support offices located in Germany; France, the Middle East and India. Through a team of Sales and Service Managers he leads a Network of Distributors and Sales Representatives in the entire territory. All are highly specialized into industrial applications. Mr. Geiger is a specialist for industrial instrumentation (Process Analyzers) in the chemical industry. He has provided training courses in Chemical Plants; Refineries and Oil and Gas Production Sites around the globe. He is frequently invited as guest speaker for various International Seminars and Meetings





# SPEAKER PROFILES



## **Sean Mathew** (\* For Ametek & CSI Technical Session) *Controls SouthEast Inc.*

Sean Mathew is the Director of Business Development for Asia Pacific at Controls Southeast Inc, an Ametek Company. With a B.Tech in Chemical Engineering from the University of Pune (2003) and an M.S. in Chemical Engineering from the New Jersey Institute of Technology (2005), Sean's early career centered on Nano materials Technology. His expertise evolved to encompass refinery technologies, specializing in Steam Heating design, SRU degassing technology, and Hot Oil Systems. With 14 years of experience in Thermal process heating systems, Sean brings a wealth of knowledge and a proven track record in driving business development across the Asia Pacific region.

## **Nirmalya Nandi** *Bharat Petroleum Corporation Limited*

Nirmalya Nandi is an astute professional with over 29 years of rich experience in operations & maintenance and project management operations with reputed organizations in the oil, gas and petrochemical sector. He has strong exposure in project management including planning, conducting quality assurance and project progress monitoring as per quality, time & budgetary norms. Nirmalya holds an MBA in Project Management from Sikkim Manipal University, and B.Tech in Instrumentation and Electronics Engineering from Jadavpur University. He has worked at various organizations including Forbes Marshall Ltd, National Petrochemical Company (Iran), Great Eastern Energy Corporation, Jost's Engineering Co, RIL (Jamnagar), and BPCL (Bina refinery).

## **Daniela Boni** *NextChem*

Daniela Boni, MSc in chemical engineering, is currently holding the position of Sulphur Technology Solution Senior Engineer in NextChem Tech. Her career started in 2014, when she joined KT Kinetics Technology as a Junior Process engineer in the Sulphur Recovery team. Since then, she has built her experience in Sulphur Recovery and Gas Treatment technology by participating in many different projects, involving basic designs, EPC, feasibility studies, commissioning and start-up activities. Today, within NextChem Tech, she is now moving forward in her career by leading the development PDP, new technologies and digital products in the field of Sulphur Recovery Technologies.

## **Dr. Abhijeet Raj** *IIT Delhi*

Dr. Abhijeet Raj is an Associate Professor of Chemical Engineering at Indian Institute of Technology Delhi in India. Previously, he was an associate professor at Khalifa University in Abu Dhabi. He did his PhD in 2010 from Cambridge University in UK and Bachelors from Indian Institute of Technology Guwahati in India. His research interests are in the areas of gas processing, fuel combustion, and pollutant emission reduction.



# SPEAKER PROFILES



## Session 10: *Operation Challenges with SRUs - II*



### **Abhijit Kumar Ram** *Engineers India Limited*

Abhijit Kumar Ram, presently Senior General Manager in the Process Design and Development Division at Engineers India Ltd in Gurugram, Haryana, brings a wealth of experience with nearly 30 years in Technical Services and Design across Pipelines, Offshore, Refinery, and Petrochemicals. A Chemical Engineering graduate from Jadavpur University, Kolkata, he initiated his career at UHDE India Ltd, Mumbai, and Indian Petrochemicals Corporation Ltd, Nagothane, Maharashtra. Abhijit's major contributions include designing Refinery units like CDU, VDU, Delayed Coker Unit, Sour Water Stripper, and Amine Regeneration units. Notably, he successfully implemented a Gas Cracker unit at GAIL, PATA, and is currently involved in the commissioning of the mega refinery complex for HPCL in Visakhapatnam.



### **Jignesh Desai** *Fluor Daniel India Pvt. Ltd.*

Jignesh Desai is a Senior Design Engineer for Materials and Welding in the Mechanical Engineering department at Fluor Daniel Pvt. Ltd. in New Delhi, India. He has more than 20 yr of experience in equipment and piping engineering (metallurgy, welding, fabrication, coating and testing) in the field of refinery, gas processing, petrochemical and power plant projects. He has five publications in his field, and earned a bachelor's degree in metallurgical engineering from the Faculty of Technology and Engineering at the Maharaja Sayajirao University of Baroda in India. Additionally, his professional qualifications include International Welding Engineer from the International Institute of Welding, NACE Protective Coating Specialist-2 Advanced, and Lead Auditor QMS ISO 9001-2008 from IRCA.



### **Ratheesh S** *Bharat Petroleum Corporation Limited - Mumbai Refinery*

Ratheesh, currently serving as Manager, Process Technology at Bharat Petroleum Corporation Limited in Mumbai Refinery, India, holds a Bachelor's degree in Chemical Engineering from Thangal Kunju Musaliar College of Engineering, Kollam (University of Kerala). With over 12 years of experience, he specializes in front-end engineering, detailed engineering, pre-commissioning, commissioning, start-ups, turnarounds, and technical services for refineries in India and abroad. His expertise extends to Hydrotreating Units, Sulphur Recovery Units, Aromatics Recovery Units, and Delayed Coking Units. Ratheesh has presented papers in national and international forums, authored three articles in reputed international magazines, and contributed to award-winning projects, receiving accolades such as the Greentech Quality & Innovation Award 2022, Economic Times Ascent National Award 2022, and CII National Award 2023 for Most Innovative Project.

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