

# SulGas<sup>®</sup>

5-7 February 2025 | Holiday Inn, Mumbai

7<sup>th</sup> edition

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

**Organizer**



**Three Ten Initiative Technologies LLP  
Visakhapatnam, Andhra Pradesh, India  
<https://the310i.com>**

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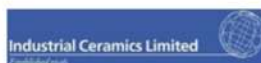
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# ABOUT SULGAS

**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 2025 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:

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# 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.

# ADVISORY COMMITTEE



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India PTE Champion  
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# SESSION THEMES

- 1 Foundations Masterclass
- 2 Gas Processing: Troubleshooting - I
- 3 From Biofeeds to Beyond Claus - I
- 4 SRU Process Automation and Instrumentation - I
- 5 Large SRUs
- 6 Gas Processing: Troubleshooting - II
- 7 Integrated Approach to SRU Optimization
- 8 Minimizing Risks in SRU Startup and Shutdown
- 9 SRU Process Automation and Instrumentation - II
- 10 From Biofeeds to Beyond Claus - II
- 11 Gas Processing: Troubleshooting - II

# Day 1 - Wednesday 5 February 2025

09:00 AM - 09:10 AM ▶ Opening Remarks by Three Ten Initiative Technologies LLP

09:15 AM - 09:45 AM ▶ Keynote: Research Impact

Measuring Kinetics of Thiocarbamate Formation and Degradation in Alkanolamines  
Dr. Melerin Madekufamba, [Alberta Sulphur Research Limited](#)

**Research Breakthrough**  
Amine Degradation

SESSION DETAILS

HIGHLIGHTS

09:50 AM - 10:50 AM ▶ Session 1: Foundations Masterclass

Fundamentals of Process Instrumentation for Sulphur Recovery Units  
Anantha Kukkuva, [Ametek Process Instruments](#)

**Core Principles**  
Foundation Training

10:50 AM - 11:20 AM ▶ ☕ Tea & Networking Break

11:20 AM - 12:10 PM ▶ Session 2: Gas Processing: Troubleshooting - I

Predicting and Preventing Amine Absorber Fouling  
Benjamin Spooner, [SGS Amine Experts](#) 🕒 11:20 AM - 11:45 AM

**Field Insights**  
Process Reliability

Staying Away from The Milky Way  
Debopam Chaudhuri, [Fluor](#) 🕒 11:45 AM - 12:00 PM

**SO2 Breakthroughs**  
Best practices

Panel Discussion 🕒 12:00 PM - 12:10 PM

**Interactive Q&A**

12:10 PM - 12:30 PM ▶ Group Photo

12:30 PM - 01:30 PM ▶ 🍽️ Lunch & Networking Break

01:30 PM - 02:50 PM ▶ Session 3: From Biofeeds to Beyond Claus - I

Novel Heterogeneous Catalysis in Selective Oxidation of H<sub>2</sub>S to Elemental S in Bio-Gas Purification: A Review  
Dr. Ritesh Mittal, [Engineers India Ltd.](#) 🕒 01:30 PM - 01:45 PM

**State Of Industry**  
Biogas Catalyst

Advanced Sulfuric Acid Recovery from Waste Gases: Minimizing Environmental Impact, Maximizing Concentration  
Robert Kahr, [Kanzler Verfahrenstechnik GmbH](#) 🕒 01:45 PM - 02:10 PM

**Sulphuric Acid**  
Decarbonisation

Direct H<sub>2</sub>S to Sulfuric Acid conversion: the SOP Process and Combination of Spent Acid Recovery & Oleum Production  
Paul Zorn, [P&P Industries AG](#) 🕒 02:10 PM - 02:35 PM

**Sulphuric Acid**  
Decarbonisation

Panel Discussion 🕒 02:35 PM - 02:50 PM

**Interactive Q&A**

02:50 PM - 03:20 PM ▶ ☕ Tea & Networking Break

03:20 PM - 04:20 PM ▶ Session 4: SRU Process Automation and Instrumentation - I

A Case Study: Reliability & Availability Enhancement of SRU ADA/other Analysers  
Nirmalya Nandi, Vinayak Mathur, [BPCL](#) 🕒 03:20 PM - 03:45 PM

**Field Insights**  
Case Study

Refractory Detection and Innovative Way to Measure Temperature in a Claus - India's Response to Past Presentation  
Bob Poteet, [WIKA](#) 🕒 03:45 PM - 04:10 PM

**Field Insights**  
Technology Advancement

Panel Discussion 🕒 04:10 PM - 04:20 PM

**Interactive Q&A**

04:20 PM - 05:15 PM ▶ Quiz & Round Table Open House 1



## Day 2 - Thursday 6 February 2025

09:00 AM - 09:10 AM ▶ Opening Remarks by Three Ten Initiative Technologies LLP

09:15 AM - 09:45 AM ▶ Session 5: Large SRUs

Waste Heat Recovery Boilers for Very Large SRUs  
Thermal Systems (Hyderabad) Pvt. Ltd.

Waste Heat Recovery  
Advanced Engineering

09:50 AM - 11:10 AM ▶ Session 6: Gas Processing: Challenges and Innovations - 1

COS and Mercaptans Removal From Gases  
Dr. Jeff Weinfeld, Optimized Gas Treating Inc. 🕒 09:50 AM - 10:15 AM

Simulation  
Trace Component Handling

Unlocking Energy Savings - Solvent swap from MDEA to OASEA® Yellow  
Dr. Chrys Fechtenkoetter, BASF East Asia 🕒 10:15 AM - 10:30 AM

Solvent Technology  
Selective Treating

Automation of Offshore TEG Platforms: A Cost-Effective Approach in the Oil & Gas Industry

Archana K Prakash, SLB 🕒 10:30 AM - 10:55 AM

Automation  
Technology Advancement

Panel Discussion 🕒 10:55 AM - 11:10 AM

Interactive Q&A

11:10 AM - 11:40 AM ▶ ☕ Tea & Networking Break

11:40 AM - 01:00 PM ▶ Session 7: Integrated Approach to SRU Optimization

Energy and Cost Optimization Opportunities in an SRU  
Claudia Guarino, Worley Comprimo 🕒 11:40 AM - 12:05 PM

Decarbonisation  
Real Time Monitoring

Tubesheet Protection Systems - Achieving Reliability Through Systematic Systems  
Domenica Misale-Lyttle, Industrial Ceramics Ltd. 🕒 12:05 PM - 12:30 PM

Field Insights  
Preventive Maintenance

SRU Thermal Oxidizer Optimization

Hari Vamsi Duggirala, Three Ten Initiative Technologies LLP 🕒 12:30 PM - 12:45 PM

Simulation  
Technology Advancement

Panel Discussion 🕒 12:45 PM - 01:00 PM

Interactive Q&A

01:00 PM - 02:00 PM ▶ 🍽️ Lunch & Networking Break

02:00 PM - 02:50 PM ▶ Session 8: Minimizing Risks in SRU Startup and Shutdown

Using your SRU Analyzers During Start Up and Shut Downs  
Jochen Geiger, Ametek Process Instruments 🕒 02:00 PM - 02:25 PM

Safe Transitions  
Analyzer Best Practices

Enhancing Operations Excellence of SRU during Start up, Shutdown and Emergency  
Pranay Singh, Fluor 🕒 02:25 PM - 02:40 PM

Safe Transitions  
Operations Best Practices

Panel Discussion 🕒 02:40 PM - 02:50 PM

Interactive Q&A

02:50 PM - 03:20 PM ▶ ☕ Tea & Networking Break

03:20 PM - 04:30 PM ▶ Session 9: SRU Process Automation & Instrumentation - II

Soft Sensor for Continuous BTEX Emission Monitoring from SRU Furnace  
Dr. Abhijeet Raj, IIT Delhi 🕒 03:20 PM - 03:35 PM

Artificial Intelligence  
Optimization

Mid Infrared Tunable Laser Analyzers for SRU Applications  
Dr. Pawel Kluczynski, Alroptic Sp. z o.o. 🕒 03:35 PM - 04:00 PM

Process Analytics  
Gas Analysis

Inhouse Reliability Enhancement of SRU MCC Temperature Measurement in BPCL-Bina Refinery

Vinayak Mathur, Bharat Petroleum Corp. Ltd. 🕒 04:00 PM - 04:15 PM

InHouse Engineering  
Case Study

Panel Discussion 🕒 04:15 PM - 04:30 PM

Interactive Q&A

04:30 PM - 05:25 PM ▶ Quiz & Round Table Open House 2

05:25 PM - 08:15 PM ▶ Cocktail Dinner

## Day 3 - Friday 7 February 2025

09:00 AM - 09:10 AM ▶ Opening Remarks by Three Ten Initiative Technologies LLP

09:15 AM - 10:15 AM ▶ Session 10: From Biofeeds to Beyond Claus -II

Recycling H<sub>2</sub>S: Pioneering Green Practices in Modern Refineries  
Ayan Dasgupta, Fluor 🕒 09:15 AM - 09:40 AM

Green Refining  
Guidelines

Non-Claus Based Sulphur Recovery from Topsoe: Case Study of Indian Refiner  
Sagar Shukla, Topsoe A/S 🕒 09:40 AM - 10:05 AM

Sulphuric Acid  
Decarbonisation

Panel Discussion 🕒 10:05 AM - 10:15 AM

Interactive Q&A

10:15 AM - 10:45 AM ▶ 🍵 Tea & Networking Break

10:45 AM - 11:25 AM ▶ Session 11: Gas Processing: Troubleshooting - II

Effects of Iron Sulphide Contamination in Gas Treating  
Arvind Chaturvedi, Transcend Solutions LLC 🕒 10:45 AM - 11:00 AM

Field Insights  
Case Study

LPG Merox Disulfide Separator Issue  
Abhijeet Subudhi, Bharat Petroleum Corp. Ltd. 🕒 11:00 AM - 11:15 AM

Liquid Treater  
Case Study

Panel Discussion 🕒 11:15 AM - 11:25 AM

Interactive Q&A

11:25 AM - 12:05 PM ▶ Quiz & Round Table Open House 3

12:05 PM - 12:25 PM ▶ Adjournment Remarks

12:25 PM - 01:10 PM ▶ 🍽️ Lunch

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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.

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**Delta Controls Corporation** is an internationally recognized expert in the design, engineering, manufacturing, and support of instrumentation designed specifically for sulfur processing applications. Delta Controls' decades of instrumentation expertise results in innovative and reliable solutions for demanding applications. Delta's multiple technologies, including infrared pyrometers, high temperature thermocouples, and process camera, allow for a complete reactor monitoring system.

Please do not hesitate to contact us at [www.deltacnt.com](http://www.deltacnt.com)

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# SRU Thermal Reactor Monitoring

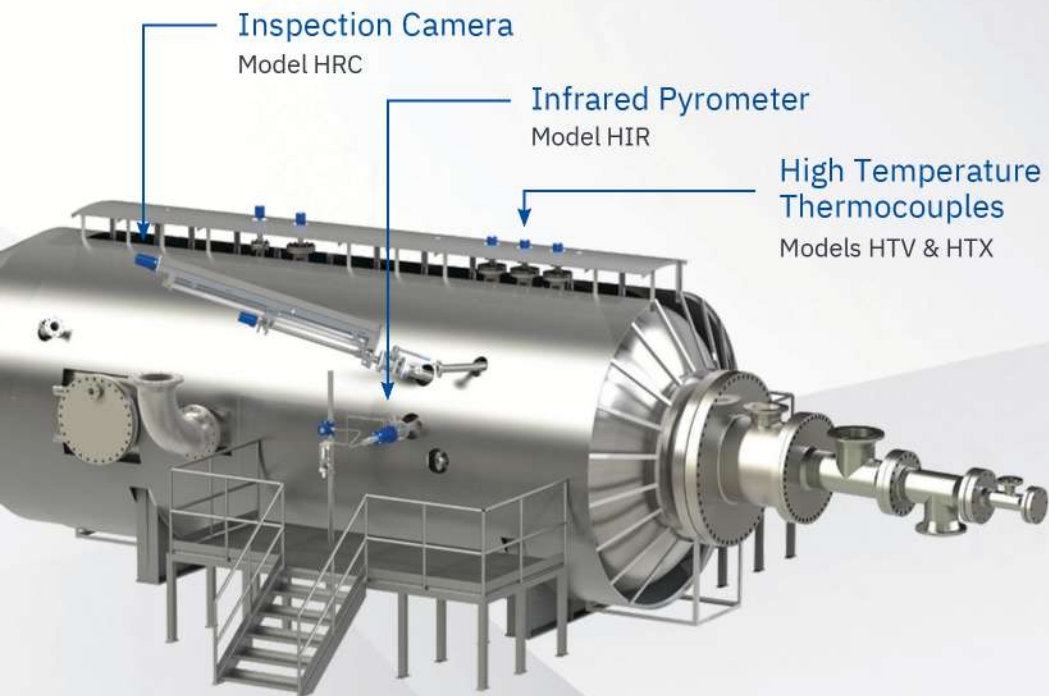
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With unique experience and knowledge in the design of sulfur recovery plants and tail gas treating units, Fluor offers a full range of services from technology licensing, feasibility studies, final start-up, normal plant operation to troubleshooting.

Our experts are experienced in commercially proven sulfur technologies and have the knowledge to devise optimum solutions that cost-effectively satisfy your client's environmental requirements.

Please do not hesitate to contact us at

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## SULFUR RECOVERY SOLUTIONS

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With unique experience and knowledge in the design of sulfur recovery, Fluor offers a full range of services such as:



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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.

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# 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.

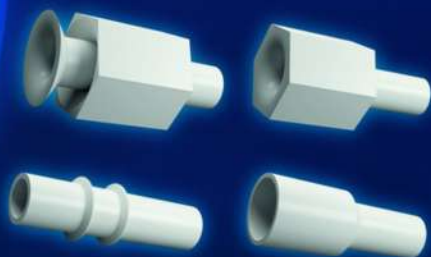
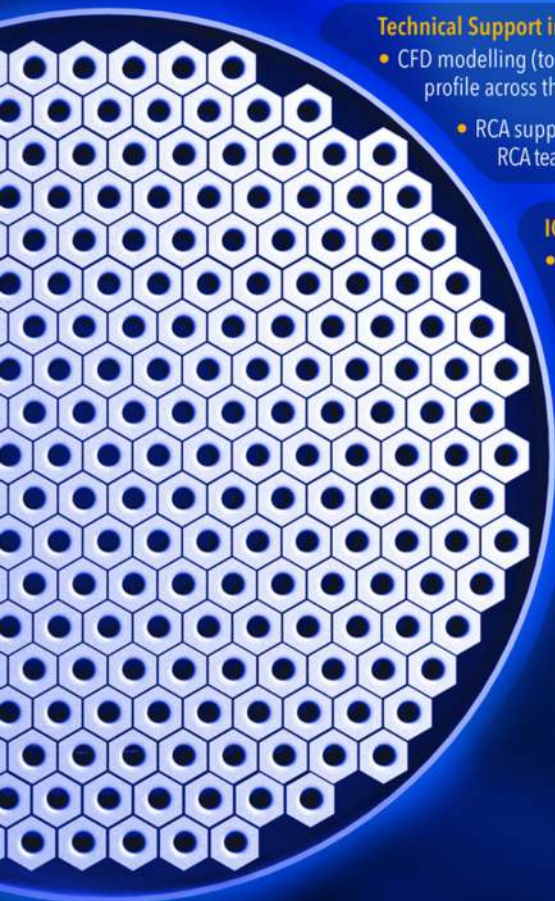
ICLs designs are used in plants all over the world, protecting WHBs from high temperature corrosion and degradation in SRUs, Methane Reformers, Sulphuric Acid plants and other Petrochemical applications.

### Technical Support includes:

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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.

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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 blues and greys, with the lights providing a warm, yellowish glow.

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**SGS Sulphur Experts** is recognized internationally as the process subject-matter experts in sulphur recovery, amine treating and gas dehydration, providing testing, analytical and engineering services. We have developed numerous proprietary analytical techniques for assessing, troubleshooting, and optimizing amine, dehydration, and sulphur units since our inception in 1965. Our commitment to producing accurate on-site analyses has permitted us to assemble an immense database of facility operations. Using the gas and liquids analyses coupled with our client's mechanical and operating data, we determine the process performance and make recommendations for better operability, safety, reliability, and unit efficiency.

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# SulGas India 2025



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We are a world recognised process engineering company providing specialised testing, analytical and engineering support services to the amine treating and sulphur recovery industry. As an independent engineering consultant, we are qualified to evaluate and recommend processes and equipment without bias. Our success is due to a combination of specialised analytical methods, and engineering tools, as well as our experienced personnel, who are recognised as leaders in their fields.

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We are the technical resource for amine applications in oil refining, natural gas, biogas, LNG, syngas, steel, and carbon capture. Our team has the experience and expertise to test, troubleshoot, and optimize the performance of your amine system.

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A frequent problem in Indian refineries is absorber fouling. When this happens, the amine system must be temporarily stopped so the vessel can be cleaned. This problem is costly and time consuming. Fouling causes off-specification fuel gas, amine loss and potential mechanical damage. This paper details how to predict when the risk of absorber fouling is increasing, and how to prevent or at least delay fouling. By using a combination of proper amine analysis, proper operation and complete understanding of the equipment design, engineers and operators can take control of the amine plant. The time it takes to learn these techniques and perform the analysis is much less than the time required to shut down and clean the absorber.

#### CONTACT US

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As a family-run business acting globally, with over 10,000 highly qualified employees, the WIKAI 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, WIKAI 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, WIKAI ensures flexibility and the highest delivery performance.

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**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.

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Euro Support is a leading global developer and supplier of sulfur recovery catalysts. With decades of specialized experience in sulfur recovery processes, we are dedicated to delivering exceptional product performance and unparalleled technical support. Our high-quality Claus and tail gas treating catalysts are backed by a commitment to excellence and fast, responsive service, ensuring optimal solutions for your sulfur recovery needs.

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# OFFICIAL PUBLICATION

**SULPHUR**  
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**Sulphur** is the market leading publication for the sulphur and sulphuric acid industries worldwide, highly regarded for its unparalleled information and extensive coverage spanning the oil and gas, chemical, metals, fertilizer and power industries. Available both in print and online, Sulphur is the only publication to provide a truly international view of the sulphur and sulphuric acid industries, providing readers with news of the latest technological advances, projects, research, market outlooks, shipping, statistics and industry comment, making it essential reading for all sectors of the industry.

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# ADVISORY COMMITTEE

## Jochen Geiger

### ***Ametek Process Instruments***

Jochen Geiger leads Business Development at AMETEK Process Instruments, with over 25 years of experience managing sales and service across EMEA and India. A specialist in process analytical applications for refineries, oil & gas, and chemical plants, he focuses on instrumentation optimization, energy savings, and sulfur recovery process control. Jochen frequently delivers technical training and speaks at international seminars like SulGas and MESCon. A published author in industrial magazines, he holds a Master's in Electronics and is a Process Analyzer Specialist.

***\*Chair - Session 7 - Integrated Approach to SRU Optimization***

***\*\*Speaker - Session 8 - Using your SRU Analyzers During Start Up and Shut Downs***

## Manu Miglani

### ***Engineers India Ltd.***

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 - Gas Processing: Challenges and Innovations - 1***

## 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 Corp. Ltd.***

Rajesh Nandanwar, a B.Tech graduate in Petrochemicals (1996), brings 22 years of expertise in the oil & gas sector. Currently at Bharat Oman Refineries Ltd., he specializes in energy improvement, hydrogen generation, and sulfur recovery. Skilled in project execution, unit stabilization, and process optimization, he drives advancements through innovative technologies. Passionate about energy, safety, and reliability, Rajesh excels in troubleshooting and performance analysis, actively sharing his knowledge to enhance industry practices and promote continuous improvement.

***\*Chair - Session 8 - Minimizing Risks in SRU Startup and Shutdown***

# ADVISORY COMMITTEE

## Rajiv Srinivasan

### Shell

Rajiv Srinivasan, a chemical engineer with 23 years of experience in sour gas processing, has expertise in commissioning, operations, project support, and technical services. He spent a decade with GAIL and later joined Shell Malaysia as a team lead for gas processing, overseeing project delivery and asset support. At PDO, he worked as a Subject Matter Expert for gas processing on major sour oil and gas projects. Currently, he is Principal Engineer in Gas Processing R&D at Shell, Bangalore, and serves as Shell's Global Principal Technical Expert in Gas Treating. Rajiv has published extensively in leading industry conferences and magazines.

## Ritesh Gulabani

### Dow

Ritesh Gulabani is the TS&D focal point for Dow's energy business in the IMEA region, managing technical services, innovation in gas processing and heat management, and initiatives in sustainability, digitalization, and customer experience. With 18+ years of industrial experience, he holds an M.Tech. in Chemical Engineering from IIT Kanpur, Six Sigma (GBPL) and Sustainability (LST) certifications, and is an Associate Member of The Indian Institution of Engineers. He co-invented 3 patents and co-authored 10 technical publications.

*\*Chair - Session 2 - Gas Processing: Troubleshooting - I*

## Srinivas Vadlamani

### SLB

Srinivas C. Vadlamani is the Technology Manager-Gas Processing at Schlumberger India, leading the gas engineering group in designing and operating gas processing plants for challenging fields globally. An SME in gas processing and Principal Trainer for membrane technologies, he has over 15 years of experience in the chemical industry, including 12+ years in oil and gas. Previously, he worked with GE Energy and UOP as a Technology Specialist. He holds a B.Tech in Chemical Engineering and a master's in plant design from NITK Surathkal.

*\*Chair - Session 10 - From Biofeeds to Beyond Claus -II*

# SESSION CHAIRS



## Ritesh Gulabani

### *Dow*

Ritesh Gulabani is the TS&D focal point for Dow's energy business in the IMEA region, managing technical services, innovation in gas processing and heat management, and initiatives in sustainability, digitalization, and customer experience. With 18+ years of industrial experience, he holds an M.Tech. in Chemical Engineering from IIT Kanpur, Six Sigma (GBPL) and Sustainability (LST) certifications, and is an Associate Member of The Indian Institution of Engineers. He co-invented 3 patents and co-authored 10 technical publications.



## Debopam Chaudhuri

### *Fluor*

Debopam Chaudhuri, a Process Engineer and Fluor Fellow at Fluor Daniel India, is a Subject Matter Expert in sulfur recovery with 23 years of experience in refining, petrochemicals, and upstream projects. He has expertise in all project phases for Sulfur Recovery Units, licenser selection, hydrogen generation via SMR, and middle distillate hydrotreaters. Chaudhuri holds BSc and BTech degrees from the University of Calcutta. Passionate about food and travel, he enjoys creating recipes, storytelling, and exploring new destinations.

*\*Speaker- Session 2 - Staying Away from The Milky Way*



## Anand Govindarajan

### *Three Ten Initiative Technologies LLP*

Dr. Anand Govindarajan, Director of 310i Technologies in Vizag, India, holds a B.Tech. from Anna University and M.S. and Ph.D. degrees in chemical engineering from Oklahoma State University. He has conducted gas treating and sulfur recovery training for engineers across India, Singapore, Saudi Arabia, UAE, and the USA. Previously, he worked with VA Tech WABAG, SSN Research Centre, Sun to Market Solutions, and more. A former Co-Chair of AIChE's Separations Division, he also served on the Board of Studies at SSN College of Engineering, Chennai.



## Manu Miglani

### *Engineers India Ltd.*

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.



# SESSION CHAIRS

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*\*Speaker - Session 8 - Using your SRU Analyzers During Start Up and Shut Downs*

## Rajesh Nandanwar

### *Bharat Petroleum Corp. Ltd.*

Rajesh Nandanwar, a B.Tech graduate in Petrochemicals (1996), brings 22 years of expertise in the oil & gas sector. Currently at Bharat Oman Refineries Ltd., he specializes in energy improvement, hydrogen generation, and sulfur recovery. Skilled in project execution, unit stabilization, and process optimization, he drives advancements through innovative technologies. Passionate about energy, safety, and reliability, Rajesh excels in troubleshooting and performance analysis, actively sharing his knowledge to enhance industry practices and promote continuous improvement.

## Bob Potteet

### *WIKA*

Bob has over 35 years of experience in energy industry sales, with 24 years focused on solving temperature measurement challenges in refining. He holds four patents, with another pending, and his innovations are widely used in refineries globally. Currently, Bob is the Director of Technology and Applications at WIKA, having previously served as VP of Sales at Gayesco and Daily Thermetrics. He holds a BS degree from Texas A&M University.

*\*Speaker - Session 4 - Refractory Detection and Innovative Way to Measure Temperature in a Claus - India's Response to Past Presentation*

## Srinivas C. Vadlamani

### *SLB*

Srinivas C. Vadlamani is the Technology Manager-Gas Processing at Schlumberger India, leading the gas engineering group in designing and operating gas processing plants for challenging fields globally. An SME in gas processing and Principal Trainer for membrane technologies, he has over 15 years of experience in the chemical industry, including 12+ years in oil and gas. Previously, he worked with GE Energy and UOP as a Technology Specialist. He holds a B.Tech in Chemical Engineering and a master's in plant design from NITK Surathkal.

# SESSION CHAIRS

## **Benjamin Spooner**

### ***SGS Amine Experts***

Ben Spooner has 25 years experience testing and troubleshooting amine systems. He started in operations then moved on to work for an amine vendor for several years before joining Amine Experts in 2003. When he speaks we suggest you listen. He is very very good. He is very happy to return to Sulgas, thank you for having him once again.

***\*Speaker - Session 2 - Predicting and Preventing Amine Absorber Fouling***

# SPEAKER PROFILES

## Keynote: **Research Impact**



**Dr. Melerin Madekufamba**  
*Alberta Sulphur Research Limited*

Dr. Madekufamba is an experimental physical scientist with research interest in thermodynamics, PVT properties at high temperature and pressure and sulfur chemistry. She is project Manager at ASRL with 10 years' experience in sulfur chemistry and research. She also works in amine degradation chemistry, selective absorption of gases in special solvents, comparative scavenger testing protocols, sulfur adsorption technology testing and dithiazine testing protocols. Her background includes aqueous solution chemistry and corrosion.

## Session 1: **Foundations Masterclass**



**Anantha Kukkvada**  
*Ametek Process Instruments*

Anantha Kukkvada is the Regional Manager for India & Africa at Ametek Process Instruments. With 21 years of experience in analytical and instrumentation solutions, he holds an Instrumentation Engineering degree and completed a General Management program at IIM Bangalore. Since joining Ametek in 2010, he has advanced to leading key industry segments, including Oil & Gas, Petrochemicals, and Semiconductors. Anantha frequently represents Ametek at industry conferences, sharing his expertise in process analyzers.

## Session 2: **Gas Processing: Troubleshooting - I**



**Benjamin Spooner**  
*SGS Amine Experts*

Ben Spooner has 25 years experience testing and troubleshooting amine systems. He started in operations then moved on to work for an amine vendor for several years before joining Amine Experts in 2003. When he speaks we suggest you listen. He is very very good. He is very happy to return to Sulgas, thank you for having him once again.



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# SPEAKER PROFILES

## Session 3: From Biofeeds to Beyond Claus - I



**Dr. Ritesh Mittal**  
*Engineers India Ltd.*

Dr. Ritesh Mittal is AGM in EIL and is doctorate from IIT -Delhi with specialization in Biofuels. He is a Chemical engineer by profession with an 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 Biofuels.



**Robert Kahr**  
*Kanzler Verfahrenstechnik GmbH*

Robert Kahr, with a master's in chemical engineering, has over 20 years of expertise in sulfuric acid technologies. Starting his career at Kanzler Verfahrenstechnik GmbH (KVT), he has been instrumental in developing and managing OXYSULF projects globally. His experience spans project management, process engineering, and plant commissioning in environmental technologies. Currently, he leads the OXYSULF product group, overseeing all sulfur processing projects and driving advancements in sustainable solutions.



**Paul Zorn**  
*P&P Industries AG*

Paul holds a master's degree in technical chemistry and has a strong foundation in mechanical engineering. With over 16 years of experience in plant engineering, he has spent the past six years specializing in the development, supervision of construction, and commissioning of sulfuric acid plants, as well as marketing the associated technology and key equipment. Currently, Paul serves as the Head of Proposal Management at P&P Industries AG, Austria.

## Session 4: SRU Process Automation and Instrumentation - I



**Nirmalya Nandi**  
*Bharat Petroleum Corp. Ltd.*

Mr. Nirmalya Nandi, with over 31 years of expertise in Project Execution and Maintenance across Oil & Gas, Petrochemical, and CBM industries, holds a B.Tech from Jadavpur University and an MBA in Project Management. He has contributed to leading organizations such as BPCL, RIL, Forbes Marshall, and the National Petrochemical Company of Iran. Currently at BPCL's Bina Refinery, his career spans roles in engineering, operations, and strategy, reflecting his extensive experience in refining and petrochemical sectors.

# SPEAKER PROFILES



**Bob Poteet**

**WIKA**

Bob has over 35 years of experience in energy industry sales, with 24 years focused on solving temperature measurement challenges in refining. He holds four patents, with another pending, and his innovations are widely used in refineries globally. Currently, Bob is the Director of Technology and Applications at WIKA, having previously served as VP of Sales at Gayesco and Daily Thermetrics. He holds a BS degree from Texas A&M University.

## Session 6: Gas Processing: Challenges and Innovations - 1



**Dr. Jeff Weinfeld**

**Optimized Gas Treating Inc.**

Jeff holds a PhD in chemical engineering from The University of Texas at Austin (2020) and a B.S. from the University of Rochester (2016). His graduate research focused on reactive dividing wall distillation columns at UT's Separations Research Program. Currently, as a Development Engineer at Optimized Gas Treating, Inc., Jeff develops and tests advanced mass-transfer process models for the ProTreat® simulator, widely used in the oil and gas industry for gas treating, carbon capture, and sulfur recovery.



**Dr. Chrys Fechtenkoetter**

**BASF East Asia**

Chrys has studied chemical engineering with a Bachelor's degree from India, a Master's degree from the USA and a PhD from Germany. She has worked for BASF in several countries and in several roles, including R&D, production and technology. She is now a member of BASF's Gas Treatment team in Asia Pacific working as a technical marketing manager.



**Archana K Prakash**

**SLB**

Process Engineer at SLB Oilfield Services in Coimbatore, India, brings about five years of expertise in the Midstream Production System. Graduation in Chemical Engineering from Amal Jyothi College Of Engineering in 2019. Currently working on various proposals and projects in Gas Treatment technologies. Areas of expertise include Design and Simulation of Gas Dehydration Units (TEG & Solid Bed Dehydration), Amine Sweetening Units, and CO2 Removal Units.

# SPEAKER PROFILES

## Session 7: Integrated Approach to SRU Optimization



**Claudia Guarino**  
**Worley Comprimo**

Claudia is a Process Engineer at Worley Comprimo in The Netherlands, focusing on developing digital dashboard tools for real-time plant data analysis and performance optimization. She has conducted technical studies and developed engineering packages for Sulphur Recovery Units (SRU) and Tail Gas Treating (TGT) Plants. With experience in Canada and globally, Claudia has worked on biofuel production, heavy naphtha hydrotreating, and refinery technical support, contributing to process improvements and economic evaluations across various project phases.



**Domenica Misale-Lytle**  
**Industrial Ceramics Ltd.**

Domenica joined Industrial Ceramics in 1987 after graduating from McMaster University. With 35 years of experience, she specializes in tubesheet reliability, root cause analysis, and the factors impacting system integrity. She has published papers, led API 565 subgroup efforts on tubesheet protection practices, and serves on the technical advisory committee for the Brimstone Sulfur Symposium. Domenica is also a board member for ASRL, contributing her expertise to advancing industry standards and practices.



**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 2.5 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.

## Session 8: Minimizing Risks in SRU Startup and Shutdown



**Jochen Geiger**  
**Ametek Process Instruments**

Jochen Geiger leads Business Development at AMETEK Process Instruments, with over 25 years of experience managing sales and service across EMEA and India. A specialist in process analytical applications for refineries, oil & gas, and chemical plants, he focuses on instrumentation optimization, energy savings, and sulfur recovery process control. Jochen frequently delivers technical training and speaks at international seminars like SulGas and MESCon. A published author in industrial magazines, he holds a Master's in Electronics and is a Process Analyzer Specialist.

# SPEAKER PROFILES



## Pranay Singh

### Fluor

Pranay has nearly 15 years of experience in the EPC industry and more than 12 years with Fluor in Process Technology function. He is Fluor's Global Subject Matter Expert in (OTS) MAT/FAT/SAT. He has worked on a wide variety of Key Projects with Fluor for their clients worldwide. He has had a significant site exposure of the Operator Training Simulator and has delivered it as a Program Lead to a key Client. He has presented a wide range of technical papers in International and National publications and has also participated in many Industry interactions as an Eminent Speaker. He is also a Life Member of the prestigious Indian Institute of Chemical Engineers Forum.

## Session 9: SRU Process Automation & Instrumentation - II



## 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.



## Dr. Pawel Kluczynski

### Airoptic Sp. z o o.

Pawel Kluczynski, CEO and co-founder of Airoptic since 2010, holds a Master's degree in Physics (1997) and a Ph.D. in laser spectroscopy (2002). With over 20 scientific papers and 14 patents, his expertise lies in tunable laser gas analyzers. From 2001 to 2010, he worked on their architecture and design at Siemens before founding Airoptic. Renowned for advancing laser spectroscopy, Pawel continues to drive innovation in gas analysis technology.



## Vinayak Mathur

### Bharat Petroleum Corp. Ltd.

Vinayak Mathur, Assistant Manager at BPCL-Bina Refinery, has 12+ years of expertise as an Instrumentation Engineer. Proficient in PLC, DCS, and SCADA systems, he specializes in maintenance, procurement, and shutdown planning for critical refinery units. Skilled in calibrating and troubleshooting advanced field instruments, including nucleonic level detectors, he enhances reliability and efficiency. With strong analytical skills and problem-solving abilities, Vinayak excels in fast-paced, technology-driven environments, contributing to the optimization of refinery operations.

# SPEAKER PROFILES

## Session 10: From Biofeeds to Beyond Claus -II



**Ayan Dasgupta**  
**Fluor**

Ayan Dasgupta is Senior Process Specialist and Subject Matter Expert (SME) in acid gas treatment at Fluor. He has over 22 years of experience in feasibility studies , FEED and detailed Engineering. His area of expertise includes hydrotreaters , green refineries , renewable fuels and acid gas treatment (ARU, SWS & SRU).



**Igor Kostromin**  
**Topsoe A/S**

Igor Kostromin, Licensing Manager for Clean Air technology at Topsoe, Denmark, has a chemical engineering background and expertise in clean air technologies, hydrogen production, and renewable energy integration. He has driven a 75% increase in catalyst sales, led greenfield petrochemical projects, and closed significant technology licensing deals. With experience in business development and technical operations, Igor now leads licensing processes across the Middle East and India, devising strategies to address customer needs and foster sustainable solutions.

## Session 11: Gas Processing: Troubleshooting - II



**Arvind Chaturvedi**  
**Transcend Solutions LLC**

Arvind Chaturvedi, a Chemical Engineer from IIT Varanasi with an MBA from the University of Bath, UK, has 30+ years of leadership experience in manufacturing, design engineering, oil & gas, and specialty chemicals. He specializes in filtration and separation technologies for refineries, gas processing, and power plants. With expertise in CXO roles, business development, and turnaround strategies, Arvind has made a significant impact across industries, including flame retardant additives, oil field chemicals, water treatment, and petrochemicals in the Middle East and India.



**Abhijeet Subudhi**  
**Bharat Petroleum Corp. Ltd.**

A chemical engineer graduated from UDCT. 6+ years of experience in the hydrocracker complex in Mumbai Refinery (operation). Digital champion of HCU complex since 2019. Part of the operation team for replacing the IDF reactor catalyst with Bharat Hi. Involved in TA-2022 of MR & TA-2023 of BR. Presented paper on Drillol in CHT-2022 & Dual Divided Wall Column in Distillation Conclave-2024.





## **CONTACT**

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