Choose The Experts

The ADVANCED Course is specifically aimed at those who already have 2 or more years experience in Amine Treating and Sulphur Recovery and those whose job duties require detailed knowledge in the topics covered; turnaround planners, project managers, engineering managers, subject matter experts, incident investigators, engineer managers, etc.

Our Experience

- 3,500+ projects in 70+ countries
- 400+ years of combined experience in our staff
- 65+ papers authored by Sulphur Experts Engineers
- Trained over 12,000 industry staff

Your Benefit

- Increase product throughput
- Minimize contaminants and their deleterious effects
- Increase catalyst and amine lifespan
- Save operational costs by discovering problems early before they lead to fouling, foaming or corrosion
- Avoid unplanned shutdowns
- Achieve peak performance and operate more reliably
- Accomplish safer, more efficient shutdowns and startups
- Evaluate and modify process design to changing feed conditions

To register and for seminar dates at a location near you visit our website at www.SulphurExperts.com

+1 403 215 8400

Paula.Zaharko@SulphurExperts.com
Meet The Experts

Ben Spooner, B.Sc., P. Eng.
Ben has experience providing technical support to the amine industry as an operator, technical specialist and as a consulting engineer. He joined Amine Experts in 2003 and has worked in over 25 countries on hundreds of various amine systems, providing expert assistance and advice regarding plant operations, troubleshooting, optimization and operator training.

Philip Le Grange, B.Sc., M.Sc.
Philip has been in the oil and gas industry since 2006 and has previously worked as a refinery amine and sulphur unit engineer and as a designer on physical solvent and sour water stripper systems. He has published articles in the PTQ, TCE, Hydrocarbon Management and Sulphur journals as well as several conference proceedings. He holds a masters degree in chemical engineering and is the Sulphur Experts subject matter expert on sour water stripping.

Michael Sheilan, B.Sc., P. Eng.
Mike has been involved in all aspects of the natural gas processing industry, primarily in relation to the chemicals used to treat gas and the processes that use these chemicals. He provides expert advice and consulting services in the area of hydrate control, gas dehydration, gas and liquid sweetening, hydrocarbon recovery and sulphur plant operations. He has focused on amine plant troubleshooting and plant optimization for the sour gas and oil refining industries.

Steven Ayres, P. Eng.
Steve provides expert guidance concerning project scoping, operational optimization, sample collection, commissioning and start-up, plant troubleshooting and process design. He is highly experienced in HAZOP and LOPA analyses on various sized projects and provides knowledge on safety requirements and regulations throughout the world. Steve specializes in amine plant optimization and troubleshooting, gas and liquid sampling of sulphur and amine, and dew point testing for EG refrigeration systems.

Gerton Molenaar, M.Sc., P. Eng.
Gerton has extensive gas processing experience, most of which has focused on the design and optimization of sulphur recovery and related processes. His experience includes process design, and basic and detailed engineering of various components of sulphur facilities including sulphur recovery, sour water stripping, sulphur degassing and tail gas treating units such as SUPERCLAUS® and SCOT. On many occasions Gerton also provided expert technical assistance during plant inspection, commissioning, start-up and performance tests around the world.

Gerald Bohme, B.Sc., P. Eng.
Gerald is a Chemical Engineer and Senior Consultant with 25 years of experience in all aspects of the process engineering work conducted by Sulphur Experts. Gerald’s expertise is global and includes plant inspections, testing and plant optimization for the sour gas and oil refining industries, including completion of optimization projects in more than 200 operating facilities in more than 50 countries.

Jan Kiebert B.Sc.
Jan Kiebert has Degrees in Mechanical Engineering and Business Economics, and is the Regional Manager/Regional Engineer for the European, Middle East and Asia operations. He has extensive experience in all aspects of the process engineering consulting work conducted by Sulphur Experts. He has conducted numerous sulphur plant inspections, design evaluations, testing and optimization projects for a wide range of facilities and clients. Jan is also a specialist regarding burner systems for sulphur recovery plants and process incinerators.

Advanced Training Topics

SESSION I: AMINE TREATING
• Optimized Amine Plant Operation
• Modern Amine Plant Design and Control
• Key Performance Indicators—What Engineers and Operators should be Routinely monitoring
• Plant Simulation—What a simulation tells that direct measurements can not

SESSION II: AMINE TREATING
• Most Common Problems—Root Cause Analysis and Prevention—Foaming, Corrosion, Fires, HSS, Meeting Specifications, etc.
• Turnup (Capacity Increase) and Turndown
• Turnaround Planning and Execution
• Startups and Shutdowns

SESSION III: SULPHUR RECOVERY
• Optimized Claus Plant and TGU Operation
• Modern Claus Plant and TGU Design and Control
• Key Performance Indicators—What Engineers and Operators should be monitoring

SESSION IV: SULPHUR RECOVERY
• SRU Safeguarding—Cause and Effect, Pressure Relief, Burner Management, etc.
• Most Common Incidents—Root Cause Analysis and Prevention—Plugging, Corrosion, Fires and Emission Increases, etc.
• Turnup (Capacity Increase) and Turndown

SESSION V: SULPHUR RECOVERY
• Turnaround Planning and Execution
• Startups and Shutdowns