

A 4-Day Course
May 13th - 16th, 2024



Sulfur Recovery & Amine Training

Optimize Your Plant &
Enable Your Teams



www.sulfurrecovery.com

+1 (403) 226-5951

info@sulfurrecovery.com

With over 100 years of combined experience, the SRE team is excited to offer this in-person training course for optimizing your Sulfur and Amine units.

Our seminars quickly pay for themselves by helping your team mitigate unexpected plant shutdowns, production losses, and the effects of everyday operational struggles. Through a robust understanding of plant equipment, maintenance, and processes, you can enable your team to succeed no matter what is thrown their way.

Join us in Downtown San Antonio at the Hilton Palacio del Rio for an informative course that covers the following topics and more while engaging employees.

- Equip your employees with the tools to solve unexpected plant issues.
- Provide new ideas and insight into recurring problems.
- Re-energize and encourage your key employees.
- Increase productivity and development of your work environment.
- Improve communications between operations, engineering, and management.
- Help your team better understand the typical maintenance concerns of each plant section.



Cost: \$2800

*This price does not include travel, accommodation, or meals.

At SRE, we know a company's greatest asset is its employees. Our goal is to ensure that your teams are protected through the industry's most up-to-date knowledge, standards, and everyday strategies for navigating your plant's machinery.

We make the process fun, interactive, and inclusive of all the resources you need to continue to train, test, and improve your internal processes long after the seminar has concluded.

Our courses cover all the details required to navigate your unique plant functions, with expertise and insight across the following areas: sulfur recovery, plant management, amine and sour water strippers, troubleshooting, corrosion, tail gas units, and much, much more.

When lost production could cost you thousands of dollars as incurred environmental fees quickly reach upwards of millions for the industry, it is critical to enable your teams to succeed with the Sulfur Recovery & Amine Training Seminar from SRE.

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About the Venue:

 **Hilton Palacio del Rio**
In downtown San Antonio, TX

With numerous world history sites as well as a river to walk, food to explore, and sights to see, SRE's Sulfur Recovery & Amine Training seminar puts you in the heart of a cultural and industrial hub in Texas.

You and your team will be training at the Hilton Palacio del Rio — a 7-time award-winning downtown destination with access to any and all amenities, including an outdoor pool and fitness center on-site.



Meet Your Instructors:

SRE's Sulfur Recovery and Amine Training Seminar will be led by **Elmo Nasato** and **Pat Holub**.

Elmo Nasato is a process engineer specializing in sulfur recovery, amine treating, and sour water processing. He has over 30 years of experience in the sulfur recovery industry, including experience with design, retrofit, start-up, and optimization of sulfur recovery units, sulfur handling units, amine units, sour water stripper units, and tail gas cleanup units. On-site field activities have included construction activities, turnaround assistance, and Operator training.

Elmo graduated from the University of Waterloo, Ontario, Canada, with a B.A.Sc. Chemical Engineering (1987) with an option in Management Science. He is currently the lead instructor and moderator for the Brimstone Vail Sulfur Recovery Symposium. He has served on the Board of Directors for Alberta Sulfur Research and the Technical Advisory Committee for the Laurance Reid Gas Conditioning Conference. Elmo has also taught courses in the Chemical Engineering departments of the University of Toronto and the University of Waterloo. He has been awarded eight patents for SRU operation, oxygen enrichment, and sulfur degassing technologies. Additionally, he has published 42 papers on topics across the sulfur recovery industry and has made 73 presentations at conferences worldwide.



Elmo Nasato

Patrick E. Holub, PE – Pat is an experienced professional engineer with managerial experience in project management, technical service, process design, marketing, and sales. He has over 40 years of industry knowledge of gas processing with extensive experience in gas treating for refinery, natural gas, ammonia, LNG, and CO₂ Capture facilities. Pat has global experience with strong computer skills and an extensive background in process simulations, plant troubleshooting and the application of technology to solve operating problems.

Pat graduated from Texas A&M University in College Station, TX with a B.S. degree in Mechanical Engineering. While working for Texaco Gas Plants division, he completed graduate courses in Business Administration at the University of Texas Permian Basin in Odessa, TX. He has served on the Gas Processors Suppliers Association Board of Directors including as an officer holding positions of President, Vice President, and Treasurer. He was recipient of 2008 Recognition Award presented by the GPA "For Valuable Service to the Industry". He is a current Senior Advisor for the Laurance Reid Gas Conditioning Conference Advisor Committee and has previously served as board member including Board Chairman. He has acted as a Guest Lecturer at Texas A&M University – College Station, TX for Chemical Engineering Process Design Course presenting "Basics of Gas Treating". He has been an instructor for the Petroleum Extension Service (PETEX), a part of The University of Texas Continuing Education, presenting "Principles of Amine Plant Operations", where students received CE credits issued by PETEX. Pat has been awarded several patents for gas treating products and has published numerous papers and international presentations.



Patrick E. Holub, PE

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Course Outline

Sulfur Recovery

DAY 1

- Introduction
- Claus Process Overview
- Sulfur Recovery Unit Equipment

DAY 2

- Sulfur Recovery Unit Operations
- SRU Catalyst, O₂ Enrichment, and Sulfur Handling
- TGCUs Processes, Incineration, and Utilities
- SRU Testing

Amine & Sour Water Stripping

DAY 3

- Introduction
- Amine Chemistry
- Amine Unit Equipment

DAY 4

- Amine Unit Troubleshooting
- Foaming
- Corrosion
- Typical Operating Parameters
- Sour Water Stripper overview

Training Testimonials



"The training conducted at our refinery was both informative and interesting. He kept the group's attention and encouraged questions and discussion throughout the session. Our technical and operating personnel were impressed with his knowledge of SRU operations and his ability to communicate in an easy-to-understand manner."

- Refinery Manager



"I thought the training was excellent. Getting the information from the instructor and then having the senior operators comment on our SRU operation was insightful. Let's have it again in 3 years!"

- Operations Superintendent



"SRE's training is the best I've seen in some time; I hope the recommendations [made by SRE on Amine Process Operations] are taken seriously."

- SRU & Amine Process Engineer