

GPAE Award Winners 2025

GPAE Best Paper Award

Our Best Paper Award, given based on scores received at our Conferences. Papers were selected from our Technical Meeting & AGM 2024, Webinars, and Annual Conference 2025.



WINNER - Michael Sheilan P.Eng. SGS Amine Experts

[“Iron Sulphide – Friend or Foe Revisited”](#)

Presented at the GPAE Annual Conference 2025

WINNER - Sebastien A. Duval, Aramco

[“Innovative CO₂ Capture Combined with Sulfur Plant Optimization in Natural Gas Operations”](#)

Presented at the GPAE Annual Conference 2025

GPAE Aungier Award

The Aungier Award is for the best paper presented by one of our Young Professionals. The winner is decided by our Technical Committee. Alongside the award, the winner also receives £1,500! Papers were selected from our Technical Meeting & AGM 2024, Webinars, and Annual Conference 2025.



WINNER - Enrique Gomez Suarez, TotalEnergies OneTech

[“CO₂ Capture in Brownfields Units: Application in Refining and Power Industry”](#)

Presented at the GPAE Annual Conference 2025

Now that we have brought down the curtain on the GPAE Technical Meeting and AGM, we are already looking ahead to next year. We will be hosting more Virtual Technical Webinars (** free to all - you can forward the invites to interested parties and/or potential members **) on the future energy areas, as well as our Annual Conference which will be held in Bergen, Norway.

By working together, learning from each other and investing in the right areas we can meet the energy demands of the future without compromising the present.

Stay involved with us in 2026: membership renewals for 2026 were sent out on the 2nd December and we look forward to seeing you at our events this coming year.

Get Involved in 2026

23 April 2026: Our free Technical Webinar Series will continue

3-5 June 2026: GPAE Annual Conference, Bergen, Norway

*****Includes a trip to the Northern Lights centre in Øygarden*****

24 September 2026: Our free Technical Webinar Series will continue

19 November 2026: GPAE Technical Meeting & AGM, London

Call for Papers!

Be part of our conferences promoting a new energy future and the transition of our industry towards that future.

We are looking for stories about the development of technology and best practices affecting Natural Gas processing. As well as a look at Hydrogen, Biogas, Ammonia, Carbon Capture and Storage, and LNG amongst others, to inspire the gas processing community.

Please submit your abstract title, author, and 100-200 words to admin@gpaeurope.com

We would love to hear from you... come and share your story with us!

Be an Award Winner: each year we present an award at our AGM for the best paper. The Best Paper Award is selected by our conference attendees and is based on the feedback scores received.

The Aungier Award is also granted for the best paper presented by one of our Young Professionals at our conferences. The winner is decided by our Technical Committee. Alongside the award, the winner will also receive £1,500.

Could this be you?

In Brief

If you have an article or something to share with the community, or would like to sponsor an In Brief publication, let us know at admin@gpaeurope.com



ACCELERATING THE DECARBONIZATION OF GAS PROCESSING ASSETS WITH PROCESS DIGITAL TWIN TECHNOLOGY: A TECHNICAL DEEP DIVE

Author: Dr. Sander de Waard, Energy, H&E, Siemens
Sander de Waard, Industry Strategy Director - Energy, H&E, Siemens
Mark Cullen, Industry Strategy Lead - Energy, H&E, Siemens

Introduction

Industry leaders are racing to bring their digital twins to life. The challenge is not just the technology, but the data and the people. This article explores the challenges of digital twin implementation in the gas processing sector, from data integration to change management. It highlights the importance of a holistic approach, involving all stakeholders from the start. The article also discusses the role of digital twins in optimizing operations, reducing emissions, and improving safety. It concludes with a call to action for industry leaders to embrace digital transformation and drive the decarbonization of the gas processing sector.

The decarbonization challenge for Gas Processing assets

Gas processing assets are critical to the energy transition, providing the clean gas needed for power generation and industrial processes. However, these assets are also major sources of CO2 emissions. The challenge is to decarbonize these assets while maintaining their efficiency and reliability. This article explores the various technologies and strategies being used to decarbonize gas processing assets, including pre-combustion, post-combustion, and oxy-fuel combustion. It also discusses the role of digital twins in optimizing decarbonization efforts and reducing costs. The article concludes with a call to action for industry leaders to embrace decarbonization and drive the energy transition forward.

Our Autumn/Winter 2025 issue of In Brief is available - [click here to check it out!](#)

In this issue of In Brief, we explore how cutting-edge technologies are reshaping the future of energy. Siemens' process digital twin is driving real-world decarbonisation, while new advances in CCUS, hydrogen systems, and gas treatment highlight innovation across the sector. GPAE Chairperson **Samantha Nicholson** reflects on the global energy trilemma — balancing security, cost, and sustainability amid political and economic uncertainty — calling for greater collaboration and resilience across Europe. Plus, hear insights from GPAE leaders and Young Professionals as they champion sustainability and the next generation of engineering excellence.



The lead article, titled **“Accelerating the Decarbonization of Gas Processing Assets with Process Digital Twin Technology: A Technical Deep Dive,”** is authored by **Taseer Seer**, Technical Account Manager – Energy (UAE); **Simon Leyland**, Industry Strategy Director – Energy (USA); **Bart de Groot**, Sustainability Lead (UK); and **Mario Calado**, Industry Strategy Lead – Energy (UK), all representing **Siemens**.

Please contact the GPAE Team on admin@gpaeurope.com if you would like to contribute towards our next issue. Opportunities include: contributing towards the lead article, advertising, or giving an update to our members.

[Get Involved](#)

[Paper of the Month](#)

This month we are looking back to a paper from Mike Sheilan, Amine Experts Inc. One of our Best Paper Award Winners, presented during our Annual Conference 2025.

["Iron Sulphide - Friend or Foe Revisited"](#)

Twenty years ago, Amine Experts published a seminal paper on H₂S corrosion in amine systems, titled “Iron Sulphide – Friend or Foe”. The paper described the various forms of iron sulphide formed from the reaction between H₂S and steel and how knowledge of these corrosive by products can provide a clue as to the formation mechanism, the severity of the potential corrosive environment and the degree to which the corrosion will affect operation of an amine unit.

Amine plants treating gas containing H₂S will have iron sulphides in the system. Are iron sulphides a good or bad thing? When do they help and when do they hinder? They are known for many things: forming protective films but yet promote fouling and are pyrophoric. The original paper attempted to clarify the pros and cons of iron sulphides present in an amine system. This paper will build on another 20 years of experience and knowledge gained through troubleshooting 100’s of amine units around the globe, specifically targeting guidelines on operating low pressure units like Acid Gas Enrichment (AGE) and Tail Gas Treating Units (TGTU), both becoming more prevalent in Middle East gas production.

[Download the Paper](#)

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