

EXHIBITOR: FUJIFILM STAND: 9472 HALL: 9

GIANT'S GLOBAL INNOVATION REACH IS MUCH MORE THAN A FILM SHOW

Many people around the world associate Fujifilm with preserving important memories as a major photographic film manufacturer.

But since the company's founding in 1934 it has diversified its technological offerings into a variety of business fields, all of which mark its origin from photographic technologies to finding significant potential for a broad range of applications using Fujifilm's leading edge proprietary technologies. Based on outstanding history and expertise in organic chemistry, thin film coating and manufacturing excellence, it has developed a highly functional membrane element for gas separation applications using its state of art R&D and production facility in The Netherlands, part of what brings Fujifilm back to ADIPEC. "Fujifilm now stands among the leading manufacturers of Gas Separation Membrane technology and we're proud to support our costumers to tackle ongoing energy transition initiatives," says Mithilaj Moideen, Regional Sales Manager (MEA), Industrial Products Division. "Natural gas treatment is gaining more attention due to current geopolitical situation and ambitious emission targets which need natural gas as a main energy vector and



parallel to the transition towards green hydrogen." Fujifilm Apura Gas Separation Membranes were launched in 2014 and have demonstrated "superior performance and durability" compared to conventional spiral wound modules under numerous process conditions typical of the natural gas processing environment. "We now have successful field installations and references across major large scale facilities strengthening our global footprint across brown field and green field projects," continues Moideen. The current Fujifilm Apura portfolio includes membranes for CO₂, H₂S and water removal from natural gas (Apura 1.5XF and 2.0C) and Fuel Gas Conditioning (Apura- FG). "However our offerings are not limited to these applications as there a wide scope of applications using

membranes... we would like to hear from customers and support them with their membrane requirements." Today, Fujifilm has 73,000 employees spread across 317 consolidated group companies worldwide. It has diversified technological offerings, developing products, solutions and services to imaging, pharmaceutical, and industrial sectors, among others. "As our business is directly linked to the oil and gas industry...we follow markets/countries with a wealth of oil and gas assets and have potential projects moving forward," says Dr. Davide Bocciardo, Senior R&D Engineer & Membrane Expert. "we have done several projects globally and have active references - as of today our main focus is in CO₂, H₂S and H₂O separation from natural gas and fuel gas conditioning applications."

Fujifilm says it is keen on developing and exploring emerging markets and recently launched a product for fuel gas conditioning applications (Apura-FG) after successful field testing. "This can also be used to reduce volatile organic compounds (VOCs) emissions reaching the environment and will be promoted alongside its existing modules for natural gas sweetening, namely Apura 2.0C and Apura 1.5XF," continues Bocciardo. "In the last several years membrane based gas separation applications are gaining a larger acceptance in the oil and gas industry and are competing with combined operations with conventional purification technologies such as Amine Towers, Pressure Swing Adsorption (PSA) and Cryogenic Distillation. "The modular nature of membrane operations is a natural fit for process intensification, and this versatility might be a significant factor to enforce membrane processes in most gas separation fields." Fujifilm says it considers the Middle East and Africa as key for its gas separation membrane business. "We're ready to engage with end users and process engineers to find interesting applications for Apura gas separation membranes as well as possible long-term collaborations," concludes Moideen.