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Turbomachinery Engineers

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## Compressor Training Seminar

Flexware, Inc. of Grapeville, PA USA, SEMTEC of Bahia Blanca, Argentina and John Crane, have joined their efforts to conduct internationally the training seminar "TURBOCOMPRESSORS – Practical Guidelines" a compressor training seminar for the area rotating equipment engineers. At this instance the seminar is presented at the Doha Intercontinental hotel from 22-25<sup>th</sup> Nov; participants in the seminar includes local Doha companies, RasGas, Shell, Occidental and Qapco. Also participating are individuals from Linde from Germany, Dibran from Switzerland, and PTT Exploration & Production from Bangkok, Thailand.

The 4 day training seminar covers basic compressor operation and maintenance along with easy, practical methods to troubleshoot compressor problems, improving plant production and reducing maintenance costs. The seasoned seminar instructors Ted Gresh, President of Flexware, Inc. from the USA and Anibal Arias, President of SEMTEC from Argentina are explaining theoretical and practical concepts of compressor aerodynamics, bearing and seal design, rotordynamics, troubleshooting, performance analysis and problem resolution. A more specific presentation by Neil Payne, Project Manager, Reliability of John Crane, Slough, UK, on dry gas seals and system requirements was also provided to suit the audience present.



Flexware, Inc. is a Turbomachinery engineering company based in the US and sells software for turbomachinery efficiency monitoring, does turbomachinery consulting services, training programs and provides temporary employee services. Consulting services that Flexware provides include compressor and turbine aerodynamic design, performance analysis, reverse engineering, witness test, expediting, inspection, troubleshooting assistance and other onsite assistance. SEMTEC is a rotating machinery service company based in Argentina and provides assistance with machinery installation, inspection, predictive maintenance, shaft alignment, rotor balancing, remaining life assessment and piping analysis in addition to the training seminars as provided here in Doha.



The Doha geographical area has a very high concentration of compressors for the gas industry making it an excellent location for this type of training. Participants include mechanical engineers responsible for maintenance of the compressors, operators and maintenance management personnel. Local industrial areas include Messaiid towards the south and Ras Laffan Industrial City towards the north which is where several of the highly discussed LNG super trains are partly under both operation and construction

The goal of the seminar is to better prepare the participants to maximize equipment utilization and plant production and reliability. This objective is fulfilled by the broad experience of the instructors and the extensive interaction of the participants. The course is purposely split into several key areas enabling related questions to be posed at the appropriate points.

Flexware, SEMTEC and John Crane have conducted similar training programs in other parts of the world, including the most recent in Semarang, Indonesia for Pertamina in August of this year. Other locations this compressor training has been conducted include Fort McMurray, Alberta Canada for Syncrude, Baton Rouge, Louisiana, USA, Houston, Texas, USA, Dubai, UAE, Philadelphia, Pennsylvania, USA, Puerto La Cruz, Venezuela and Singapore.