



## MUHSEN SHOBBAR AL-SANNAA



Mr. Al-Sannaa is a Piping Engineering Expert with Long International and has over 35 years of experience in major technical issues related to the design and construction of piping systems. His diversified field and project expertise includes refineries, offshore pipelines, and oil and gas. Mr. Al-Sannaa has solved hundreds of piping system problems including, but not limited to, piping vibration, particularly high frequency issues in gas piping systems such as flare headers and control stations, piping stress analysis and failure, surge studies, operational issues, pipe supports, layout, and corrosion. In addition, he is knowledgeable with capital projects at all phases and conducting project reviews to improve quality and reduce costs. He is a recognized expert in his field and was granted a U.S. patent for his innovative design of gas strainers that effectively solve chronic noise and piping vibrations at centrifugal compressor suction. Mr. Al-Sannaa also

possesses strong analytical and technical writing skills. He has authored numerous technical works including engineering standards, project documentation, and contracts. Mr. Al-Sannaa is an instructor and lecturer on piping and pipeline topics including design, construction, and operational issues such as vibration and hydrotesting. He is adept at performing piping stress analysis using various software programs including CAESAR II, AutoPipe, and SIMFLEX II. In addition, he is knowledgeable with SPS for Flow Assurance Analysis, ANSYS for Finite Element Analysis, and with Microsoft Office software including PowerPoint.

### EDUCATION

M.S. Mechanical Engineering with honors, King Fahad University of Petroleum Minerals, Dhahran, Saudi Arabia, 1981

B.S. Mechanical Engineering with honors, King Fahad University of Petroleum Minerals, 1977

Completed over 50 credits in Ph.D. Mechanical Engineering studies

Various management and technical courses, workshops, and seminars

### PROFESSIONAL AFFILIATIONS

Saudi Engineers Council Membership #436300 (National ID #1013269806)

Chairman, American Society of Mechanical Engineers (ASME) (2003–2005)

Vice Chairman, ASME (2001–2002)

Education Chairman, ASME (1996–2001)

Member, ASME (1994)

### LANGUAGES

Arabic

English

### PRESENTATIONS, LECTURES, AND SEMINARS

Presenter, “Using High CS Pipe for Pipelines, A Point of Reconsideration,” MPWT Dammam NACE and AWS Conference, 2017

Presenter, Workshop Leader, and Panel Chairman, ASME Saudi Arabia Section, MEMEC Bahrain, 2007

Presenter, “Solving Compressor Suction Piping Vibration by Process of Elimination,” PetroTech, 2006

Presenter, “Selection of Flange Gaskets – Lessons Learned,” 5<sup>th</sup> Maintenance Forum, 2006

Instructor, “Piping Vibration Workshop,” Piping and Valves Roundtable and Workshop, Saudi Aramco, 2004