

Discussion Group T07: Advanced Topics in Centrifugal Compressor Design

Leaders:

- Mark Sandberg (Chevron)
- Leonardo Baldassarre (GE Oil & Gas)
- Urs Baumann (MAN Diesel & Turbo Schweiz AG)
- Mark Kuzdzal (Dresser-Rand: A Siemens Business)
- Jeffrey Moore (Southwest Research Institute)
- Brian Pettinato (Elliott Group)
- Jim Sorokes (Dresser-Rand: A Siemens Business)
- Norbert Wagner (Dresser-Rand: A Siemens Business)

Suggested Topics:

- Meeting current rotordynamics stability standards
- CO2 Compressors
- High flow coefficient/Mach number impellers
- Coupling and alignment impacts on asymmetric rotordynamics
- Sour gas/Chloride implications on material selection
- Complicated high pressure gas properties
- Validity of CFD modeling
- Modern manufacturing/forming methodologies
- Simulation and dynamic process modeling
- Helmholtz Resonators/Acoustic Attenuation
- Testing in extreme overload/choke conditions
- Tripping of compressors in surge conditions
- Future compressor design/development challenges
- Control challenges associated with sophisticated cent. compr. Design
- Performance and mechanical monitoring of compressors