

Discussion Group T07 - Advanced Topics In Centrifugal Compressor Design

Leaders:

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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