

Sound & Vibration Measurements – ME 459/659 Spring 2019

invites ME students and faculty to a unique presentation from an outstanding practicing engineer

Thursday, February 7, 5:30-6:30 pm JCAIN 202

A case study on S&V measurements and much more to learn from a pro

by

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Aggie Class of 1989

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Abstract

In industry there are several different types of machines that are able to operate for several years at a time without issue. These machines are essential to production in these manufacturing units and are designed, installed, operated and maintained with a great deal of scrutiny and care. This case study will cover the failure of an impeller that ran successfully for years, and then over a relatively short period of time experienced five different failures. This impeller design was in a centrifugal compressor driven by a steam turbine. This type of impeller was not unique to this location and this design had run successfully for years.



Presenter Bio

Joe's department provides mechanical and electrical engineering resources for site reliability and energy optimization. Joe graduated from Texas A&M University in 1989 with a B.S. degree in ME and has worked in an end user, manufacturing capacity his entire career with a focus on maintenance and reliability of rotating equipment.

Joe has been the manager of Lyondell Basell's Central Machinery Engineering department and served in several technical support and advisory roles including specification, testing and installation of critical machinery, shop and field repairs, equipment disassembly, overhaul and startup, failure analysis, and providing technical evaluations during due diligence. **Joe is an elected member of the Advisory Committee for the TEES Turbomachinery Symposium.**

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