

Sound & Vibration Measurements – ME 459/659 Spring 2019

invites ME students and faculty to a unique presentation on practicing engineer

Thursday, February 28, 5:30-6:30 pm JCAIN 202

Three Cases of Unusual Vibrations in the Field

by

Mrs Yve Zhao

BP Rotating Equipment Engineer

Abstract

The Chalk: Axial Vibration for a Motor-Gearbox-Compressor Train &

The Bridge: Motor Pedestal Resonance &

The Rush: Vertical Turbine Pump Reliability Improvement.

A Review of Case Studies Presented at the
Turbomachinery Symposium in 2013, 2014 and 2018

Presenter Bio



Yve Zhao is a Rotating Equipment Engineer working for BP's upstream engineering center. Having worked in the turbomachinery field for 25+ years, in her current position, Yve provides global technical support to the upstream business within BP with expertise on vibration diagnostics, rotor/thermodynamics, failure analysis, and health monitoring of rotating equipment and industrial standards development including API and JIP33.

Prior to joining BP, she worked as a Staff Rotating Equipment Engineer for BHP's central engineering and midstream production unit. Prior roles includes Rotor Dynamicist/Analytical Engineer at CONMEC supporting centrifugal compressor, steam turbine, expander and axial compressor rerate projects and as a Principal Rotating Equipment Engineer at Air Products and Chemicals on Air Separation, HYCO and Chemical projects.

Yve Zhao received her BSME in 1992 and MSME in 1997. She has authored papers on turbulent flow seals, bearing dynamics, and case studies on machinery failure and root cause analysis. Currently, she holds positions in the Vibrations Institute training committee

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