

Sound & Vibration Measurements – ME 459/659 Spring 2019

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

Thursday, February 21, 5:30-6:30 pm JCAIN 202

Structural Dynamics: Importance & Relevance

by

Dr. John Kocur

Exxon Mobil, Machinery Engineer

Abstract

A general discussion on the importance of the consideration of structural dynamic behavior beyond the structure itself. Why the consideration is important, overview of failures both static and dynamic, procedural outline to avoid problems and an explanation of the impact of resonance on installed equipment are presented. A case study illustrating the impact of structural resonances on installed operating equipment is discussed.

Presenter Bio



John A. Kocur, Jr. is a Machinery Engineer in the Equipment Engineering Division at ExxonMobil Research & Engineering in The Woodlands, TX. In his current capacity, he provides support to the downstream, upstream and chemical business lines within ExxonMobil with expertise on vibrations, rotor/thermo dynamics, failure analysis and health monitoring of rotating equipment. Prior to joining EMRE, he held the position of Manager of Product Engineering and Testing at Siemens Demag Delaval Turbomachinery. There, Dr. Kocur directed the development, research, design, engineering and testing of the compressor and steam turbine product lines. He has also held positions with Pratt & Whitney and Amoco Corporation. Dr. Kocur received his BSME (1978), MSME (1982) and Ph.D. (1991) from the University of Virginia and an MBA (1981) from Tulane University. He

has sat as a committee chairman for NASA Lewis, is a member of ASME and holds a patent on hydrostatic bearing design. Currently, he holds positions within API as 617 chair, 684 chair, Standard Paragraph chair and Subcommittee on Mechanical Equipment (SOME) steering committee member and serves on the advisory committee for the Texas A&M Turbomachinery Symposium.

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