

MECHANICAL AND AEROSPACE ENGINEERING GRAD STUDENT SEMINAR

Vibro-Acoustic Investigation of an Oil-Free Centrifugal Compressor

Friday, February 13
11:00AM
AME 106

Jin Yan

**DIRECTOR OF TECHNOLOGY AND
DIRECTOR OF AEROTHERMAL ENGINEERING**
Danfoss Turbocor

The demand for HVAC chiller systems in commercial centers is ever-increasing. Chillers with centrifugal compressor units produce high-frequency noise, a significant problem that needs to be addressed. The blade passing frequency is the primary noise source a centrifugal compressor generates. The objective of this paper is to investigate the vibro-acoustic performance of an oil-free two-stage centrifugal compressor with magnetic bearings via numerical modeling.

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Department of Mechanical and Aerospace Engineering

