

**SHORT COURSE P2
ON
VIBRATION PROBLEMS AND SOLUTIONS IN TURBOMACHINERY**



Paul A. Boyadjis is Manager of Turbomachinery Analysis at Mechanical Solutions, Inc. (MSI), in Whippany, New Jersey. He has over 27 years of diverse experience in the analysis and design of rotating equipment. His specialty includes complex 3D solids modeling of pump and compressor casings and rotating assemblies, and the performance of stress and vibration analysis using advanced finite element techniques.

Mr. Boyadjis has worked as a lead analytical engineer for major compressor and pump manufacturers such as Ingersoll-Rand, Ingersoll-Dresser Pump, and Flowsolve Corporation. Mr. Boyadjis has a BS and MS in Mechanical Engineering from Lehigh University. He is a member of the API Machinery Standards Committee and a Standards Partner of the Hydraulic Institute.



William D. (Bill) Marscher, has spent his career of over 30 years involved in the design, development, and troubleshooting of compressors, turbines, pumps, and other turbomachinery. His capabilities and experience include finite element analysis, rotordynamic analysis, vibration testing, predictive maintenance, and mechanical design, including the design of advanced (including magnetic) bearings and seals.

Eric J. Olson



Maki M. Onari is Manager of Turbomachinery Testing at Mechanical Solutions, Inc. (MSI), in Whippany, New Jersey. He is responsible for field vibration testing involving ODS and Modal analysis. His career spans more than 15 years primarily working with rotating equipment analysis and troubleshooting in the petrochemical, refinery, and power generation industries. Prior to joining MSI, Mr. Onari was a Rotating Equipment Engineer in PDVSA-Venezuela responsible for the predictive maintenance of one of the largest petrochemical complexes in Latin America. Mr. Onari received his B.S degree (Mechanical Engineering, 1996) from the Zulia University in Venezuela. He is a member of ASME and the ISO TC108/S2 Standards Committee for Machinery Vibration.
