METS2 Short Course 3

Frank Pinckney is a Senior Engineer with Dresser-Rand's Synchrony Business Unit in Salem, Virginia. He began his work in magnetic bearings as a Systems Engineer and later Director of Engineering for Magnetic Bearings, Inc., a joint venture company of S2M and Kollmorgen Corporation. He has also served as Motion Systems Manager for Kollmorgen Corporation and Motor Engineering Manager for Kearfott Guidance & Navigation. He is experienced in magnetic bearing design, rotor dynamics analysis, control systems integration and commissioning turbomachinery on magnetic bearings. Mr. Pinckney has recently instructed at the Magnetic Bearing Short Course at the 1st Middle East Turbomachinery Symposium in Qatar. Mr. Pinckney holds a BS from Clemson University and an MS in mechanical engineering from Virginia Tech where he also teaches mechanical engineering classes as adjunct faculty.

Richard Shultz is a Design Engineering Manager for magnetic bearing systems at Waukesha Magnetic Bearings. He has 20 years of industrial experience designing magnetic bearing systems and auxiliary bearing systems, specializing in rotordynamics and control system design. He has direct experience with applying magnetic bearings to turboexpanders, compressors, high speed motors, pumps, gas turbines, steel industry equipment, gas cooled nuclear reactor equipment, military equipment, hermetically sealed motor compressors, flywheels, and high speed test rigs. Mr. Shultz has recently instructed at the Magnetic Bearing Short Course at the 1stMiddle East Turbomachinery Symposium in Qatar.
Mr. Shultz received his rotordynamic and control system education at Texas A&M University. While at the Texas A&M Turbomachinery Laboratory, he co-invented the TAMSeal damping seal with Dr. John Vance.

Joseph Tecza is a Principal Engineering Leader at Dresser-Rand in Wellsville, New York. He has been at Dresser-Rand for the past 10 years, and his current work includes design and development testing of large magnetic bearing systems for steam turbines, generators and compressors. Prior to joining Dresser-Rand, he worked for GE Power Systems, performing rotordynamic analysis and development testing on large power generation gas turbines, steam turbines and generators. He also spent over 20 years as a Project Engineer and Program Manager at Mechanical Technology Inc., working in a variety of areas including rotordynamic analysis, flexible rotor balancing, bearings, dampers damping seals and diagnostic systems.
Mr. Tecza holds a BS in mechanical engineering from Cornell University and an MEng in mechanical engineering from Rensselaer Polytechnic Institute.

Stan Uptigrove has worked for ExxonMobil Upstream Research Company for the past 6 years as a Senior Machinery Engineer and Team Lead for the Machinery, Automation and Power Group. He started his 30 year career at Nova Corporation in Canada where he was responsible for many of the world's first application of both gas seals and magnetic bearings to turbomachinery. Mr. Uptigrove was one of the founders and senior management of Revolve Technologies (now SKF Magnetic Bearings) who developed the first digital magnetic bearing systems and consulted on the application of gas seals and magnetic bearings globally. Prior to ExxonMobil, he was the Global Director at Flowserve Corporation responsible for their gas seal business and new unit pump seal business. Mr. Uptigrove has conducted many training courses and published numerous technical papers on turbomachinery, magnetic bearings and dry gas seals and has chaired a number of turbomachinery conferences.

Mr. Uptigrove graduated from the University of Calgary with a BSME.