

SHORT COURSE T4 CENTRIFUGAL COMPRESSORS 201



Jim Sorokes has been a Principal Engineer at Dresser-Rand with over 35 years of experience in the Turbomachinery industry. Jim joined D-R after graduating from St. Bonaventure University in 1976. He spent 28 years in the Aerodynamics Group, became the Supervisor of Aerodynamics in 1984, and was promoted to Manager of Aero/Thermo Design Engineering in 2001. While in the Aerodynamics Group, his primary responsibilities included the development, design, and analysis of all aerodynamic components of centrifugal compressors. IN 2004, Jim was named Manager of Development Engineering whereupon he became involved in all aspects of new product development and product upgrades. IN 2005, Jim was promoted to principal engineer responsible for various projects related to compressor development and testing. He is also heavily involved in mentoring and training in the field of aerodynamic design, analysis, and testing. Jim is a member of AIAA, ASME, and the ASME Turbomachinery Committee. He has authored or co-authored over forty technical papers and has instructed seminars and tutorials at Texas A&M and Dresser-Rand. He currently holds three U.S. patents and has two others pending. He was elected an ASME Fellow in 2008.



Jim Hardin is a Senior Engineer in the Advanced Technology department at Elliott Company, in Jeannette, Pennsylvania, where he performs computational fluid dynamics (CFD) and other aerodynamic analyses for turbines and compressors. Previous experience includes CFD and other analyses on shipboard propulsion and piping systems with Westinghouse Electric Corporation, and turbine design support and testing at Elliott Company. He has 31 years of engineering experience, mostly in aerodynamics and fluid systems. Mr. Hardin received a B.S. degree (Mechanical Engineering, 1981) from Carnegie-Mellon University, and is a registered Professional Engineer in the State of Pennsylvania.



Dr. Jeffrey Moore is the manager of the Rotating Machinery Dynamics Section at Southwest Research Institute in San Antonio, TX. He holds a B.S., M.S., and Ph.D. in Mechanical Engineering from Texas A&M University. His professional experience over the last 20 years includes engineering and management responsibilities related to centrifugal compressors and gas turbines at Solar Turbines Inc. in San Diego, CA, Dresser-Rand in Olean, NY, and Southwest Research Institute in San Antonio, TX. He has authored over 30 technical papers related to turbomachinery and has three patents pending. Dr. Moore has held the position of Oil and Gas Committee Chair for IGTI Turbo Expo and is the Associate Editor for the Journal of Tribology. He is also a member of the Turbomachinery Symposium Advisory Committee, the IFToMM International Rotordynamics Conference Committee, and the API 616 and 684 Task Forces.



Gary Colby is presently a Test Engineering Supervisor with Dresser-Rand Company in Olean, N.Y. He is responsible for developing test methods to meet objectives for production compressors and analytical aerodynamic testing centrifugal and axial compressors. Mr. Colby has held several engineering positions over his 39 year career at Dresser-Rand. His work experience has been in the thermodynamic performance of centrifugal compressors. He has more than 26 years of experience in testing of compressors, both in-shop and field. Gary studied Mechanical Technology at Alfred State University in New York. He has been a Tutorial Author, Discussion Group Leader and Short Course Speaker for the Turbomachinery Symposium and has authored several papers on hydrocarbon performance testing of compressors.



Robert C. White is a Principal Engineer for Solar Turbines, Inc. in San Diego, California. He is responsible for compressor and gas turbine performance predictions and application studies. In his former position he led the development of advanced surge avoidance and compressor controls at Solar Turbines. Mr. White holds 12 U.S.patents for turbomachinery related developments. He has contributed to several papers, tutorials, and publications in the field of Turbomachinery.
