

## SHORT COURSE T4 CENTRIFUGAL COMPRESSORS 201

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**Bill Hohlweg** is a Senior Consulting Engineer in the Product Development department at Elliott Company, in Jeannette, PA, where he supervises the compressor aerodynamics group. For 36 years at Elliott, he has focused primarily on centrifugal compressor aerodynamic design, analysis, and single stage development testing. Bill is also responsible for the maintenance and upgrade activities associated with the multistage compressor selection program, and occasionally is involved in factory and field performance troubleshooting. Prior to joining Elliott, one year was spent at Ford Motor company and two years at NASA Langley Research Center working at their low speed wind tunnel facility. Mr. Hohlweg received a B.S. degree in Aerospace Engineering from Penn State University in 1971 and a M.S. degree in Flight Sciences from George Washington University in 1975.

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**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.

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**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.

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**Mr. 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.

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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.