

**DISCUSSION GROUP T9
ON
GAS TURBINES AND COMPRESSORS PERFORMANCE TESTING**



Jeff Haught, Coordinator, is a Facilities Engineering Advisor for Anadarko Petroleum Corporation in The Woodlands, TX. He currently is responsible for Midstream gas plants and gathering systems as well as oversight of the Company's large rotating equipment in various locations around the world. He began his career as a machinery engineer at the Arco refinery in Los Angeles then moved to Prudhoe Bay first with Arco and then with Conoco.

Mr. Haught received his B.S. degree (Mechanical Engineering, 1979) from The University of California, Santa Barbara. He is a member of both ASME and PMI. He is a registered Professional Engineer in Texas and California and is a member of the Turbomachinery Symposium Advisory Committee.



Mark Sandberg, Coordinator, is a Consulting Machinery Engineer and Technical Team Leader with Chevron Energy Technology Company in Houston, Texas. His current duties involve providing technical assistance and services associated with the selection, design, specification, procurement, and testing of new rotating equipment along with failure analysis and troubleshooting problems with existing equipment, primarily in upstream oil and gas production and LNG processing. Mark has more than 30 years of varied experience in the process industries.

Mr. Sandberg has B.S. and M.S. degrees (Mechanical Engineering) from the University of Illinois at Urbana-Champaign, is a registered Professional Engineer in the State of Texas, and is a member of ASME and AIAA.



Hans Weyermann, Coordinator, is a Principal Rotating Equipment Engineer in the PM&IE department of ConocoPhillips Upstream Technology Group. In his current position, he is providing support to all aspects of turbomachinery in existing business units, as well as grass roots capital projects. He is also responsible for following the machinery related areas of corporate initiatives within the ConocoPhillips Upstream Company.

Mr. Weyermann attended the College of Engineering in Brugg-Windisch, Switzerland. After receiving a B.S. degree (Mechanical Engineering), he joined Sulzer Escher Wyss Turbomachinery in Zurich, as an application/design engineer in the turbocompressor department. Prior to joining the Phillips Company, he was the supervisor of the Rotating Equipment department at Stone and Webster Engineering in Houston.



Gary Colby has held several engineering positions over his 38 year career at Dresser-Rand Company. The majority of his work experience has been in the thermodynamic performance field of centrifugal compressors. He has over 20 years experience in testing of centrifugal compressors both in the shop and the field. He has authored several papers on hydrocarbon testing of compressors, presented a tutorial on testing at the 34th Turbomachinery Symposium as well as being a presenter of various Short Courses on testing of centrifugal compressors. Mr. Colby presently is a Test Engineering Supervisor developing test methods to meet objectives for production compressors and analytical aerodynamic testing of centrifugal compressors. Mr. Colby studied mechanical technology for two years at the State University of New York at Alfred.

Douglas Petrie is the Director of Sales for Compression and Solutions for Siemens Oil & Gas. He has been working in the Rotating Equipment Industry for over thirty years including roles in Sales, Marketing, Project Management, Engineering and Operations Management. He recently joined Siemens after filling various roles in GE Oil and Gas between 2002 and 2011. Prior to GE Doug worked for Elliott and Dresser Clark. He has a Bachelor of Science from Clarkson University with a Major in Mechanical Engineering.