



SHORT COURSE 1

on

COATING PROCESSES AND APPLICATIONS FOR TURBOMACHINERY



Ron Shaver is currently employed as the International Sales Manager by Hickham Industries, in LaPorte, Texas. He has 16 years of experience in the coating industry. Before moving to Hickham, he was employed by Sermatech International for 13 years, from 1983 to 1996, in capacities including Production Supervisor, Production Manager, Operations Manager, Sales Engineer, Business Unit Manager, and he was employed by Fusion Inc. for three years, from 1996 to 1999, in the capacity of President and General Manager. Mr. Shaver's coating experience includes the application as well as the sales and marketing of compressor, combustor, and turbine coatings in the gas turbine, steam turbine, and compressor markets, and covers slurry as well as thermal sprayed coatings.

Mr. Shaver has a B.B.A. degree from the University of Houston, and an M.B.A. degree from Our Lady of the Lake University.



Hans Van Esch is with Hickham Industries, in LaPorte, Texas.



Larry Ross is Vice President of Fusion Inc., a Praxair Surface Technologies company. He has 34 years of mechanical, professional sales, and marketing experience. His background includes 15 years with Diamond Shamrock Deer Park Chemical plant, now Oxy Vinyls, working with the mechanical maintenance department for repair of centrifugal compressors, steam turbines, pumps, etc. Since 1981, Mr. Ross has worked in the machine, coating, and grinding service industry. His background in mechanical component repair includes working with OEMs in developing HVOF coating repair standards for their high-speed equipment. These standards are now part of the new API 687 repair guidelines.

Mr. Ross is a member of ASM, ASME, and the Vibration Institute.



Bruce G. McMordie is responsible for development of coating systems to prevent environmental deterioration of metal parts up to 1100°C (2100°F) at Sermatech International Inc., in Limerick, Pennsylvania. He has 20 years of experience in the coatings industry and holds more than a dozen patents on the structure of and means to apply coatings to resist aqueous corrosion, polymeric, and mineral fouling and hot corrosion.

Mr. McMordie has B.S. and M.S. degrees (Metallurgy and Materials Science) from Carnegie-Mellon University. He is a member of SAE, ASM, ASME, and AIChE.

SHORT COURSE 2
on
PRACTICAL VIBRATIONS AND MAGNETIC BEARINGS



Paul Alves is a Senior Engineer with Nova Chemicals Ltd., in Calgary, Alberta, Canada. His experience spans 25 years in the areas of petrochemical industry equipment design, vibrations, and rotating equipment dynamics. From 1990 until 1998, Mr. Alves provided technical support to Nova's extensive fleet of magnetic bearing compressors. He also acts as an independent consultant to the industry in general in the areas of vibrations, rotating equipment and structural dynamics, and magnetic bearings.

Mr. Alves has a B.Sc. degree and an M.Sc. degree (Mechanical Engineering) from the University of Calgary. He is a registered Professional Engineer in the Province of Alberta, Canada.

SHORT COURSE 3
on
GAS TURBINE TECHNOLOGY



Meherwan P. Boyce is Managing Partner of The Boyce Consultancy, in Houston, Texas. He has over 35 years of experience in the turbomachinery field. He was chairman and CEO of Boyce Engineering International and the pioneer of online condition-based performance monitoring. He has developed models for various types of power plants and petrochemical complexes. His experience includes Director and Founder of the Turbomachinery Laboratories, where he also Founded and was Chairman of the Turbomachinery Symposium. He is an author of the "Gas Turbine Engineering Handbook."

Dr. Boyce received B.S. and M.S. degrees (Mechanical Engineering) from the South Dakota School of Mines and Technology (1962) and the State University of New York (1964), respectively, and a Ph.D. degree (Aerospace and Mechanical Engineering) from the University of Oklahoma (1969). He is a Fellow of ASME, a member of SAE and NSPE, and is a registered Professional Engineer in the State of Texas.

SHORT COURSE 4
on
COMPRESSOR DRY GAS SEALS



Josef (Joe) Sedy is a Consultant with Envitech, Inc., in Mount Prospect, Illinois. He has spent over 30 years improving mechanical and gas seals. The early years were spent as a Research Engineer at Crane Packing Co. (John Crane Inc.). His work with spiral groove gas seals resulted in a patent-protected, stable, noncontacting, and nonwearing gas seal design. Then as Technical Director, Mr. Sedy helped promote acceptance of this product through conversions of problem compressors in gas transmission, chemical, and petrochemical plants. Since becoming an independent consultant in the early 90s, he has worked with Durametallic, now Flowserve Corporation, to further improve the dry gas seal, concentrating on field problems. He is author of several technical papers and was granted 14 US patents and their foreign equivalents.

Mr. Sedy received his M.S. degree (Mechanical Engineering) from Charles University, in Prague, and is a registered Professional Engineer in the State of Illinois.

SHORT COURSE 5

on

MACHINERY INSTALLATION AND INSTALLATION DESIGN—API STANDARD 686



Roy E. Craddock III is a Senior Staff Machinery Engineer for a Fortune 500 chemical company in South Charleston, West Virginia. His responsibilities in the machinery area include equipment specification and selection, installation, commissioning, and startup of critical equipment for major domestic and foreign petrochemical projects. He is also responsible for providing troubleshooting assistance to manufacturing locations and their process technology licensees. Prior to his present position, Mr. Craddock was employed with FMC Corporation in the Maintenance Engineering Department.

Mr. Craddock has a B.S. degree from West Virginia Institute of Technology and is a registered Professional Engineer in the State of West Virginia. He is a Steering Committee member of the API Subcommittee on Mechanical Equipment and is the Chairman of the API RP-686 Task Force on Recommended Practices for Machinery Installation and Installation Design.



Peter J. (Pete) Beaty is a Senior Consultant specializing in turbomachinery at DuPont's Engineering Technology Center, in Wilmington, Delaware. He is responsible for assuring the correct application of compression equipment and systems. He has been involved in numerous rotating machinery installation, startup, and troubleshooting assignments during his 34 years with DuPont.

Mr. Beaty received a B.S. degree (Mechanical Engineering) from Villanova University. He is a Registered Professional Engineer in the State of Delaware, and a member of Pi Tau Sigma, Tau Beta Pi, and ASME. He participates in the development of Process Industry Practices (PIP), API mechanical standards, and represents DuPont on APIs Committee for Refinery Equipment. He is Convenor and Project Leader for ISO Standard 10438 (API 614), and Vice Chairman of API Standard 617.



Lynn C. Fulton is a Reliability Engineer at the BP Amoco Whiting Refinery, in Whiting, Indiana. His current role includes root cause failure analysis of chronic problems and knowledge management for the future. He has held a variety of positions in engineering and maintenance within the Whiting refinery and as a Rotating Machinery Engineer with Amoco Petroleum Products. He has more than 20 years' experience in rotating machinery.

Mr. Fulton received a B.S. degree (Psychology, 1973) from Western Illinois University and a B.S. degree (Mechanical Engineering, 1977) from the University of Illinois in Chicago. He is a member of API Task Forces 614, 670, and RP686. Mr. Fulton is a registered Professional Engineer in the States of Illinois and Indiana.



Michael S. (Mike) Fynan is a Staff Mechanical Engineer in the Martinez Refining Company Division of Equilon Enterprises LLC, located in Martinez, California. He currently provides machinery technical support to the Delayed Coking Department. Prior to his current assignment, Mr. Fynan was a machinery engineer for Shell Oil Company in the Wood River, Illinois, facility. He has completed various technical and management assignments in the rotating machinery field for more than 20 years.

Mr. Fynan received his B.A. degree (Physics) from Franklin & Marshall College, his B.S. degree (Mechanical Engineering) from Washington University in St. Louis, Missouri, and his M.S. degree (Mechanical Engineering, 1977) from Rensselaer Polytechnic Institute. He is a registered Professional Engineer in the State of Illinois and a member of Sigma Pi Sigma. Mr. Fynan participated on the API RP-686 Task Force on Recommended Practices for Machinery Installation and Installation Design.



Fred Sutler is Chief Rotating Equipment Specialist with Phillips Petroleum Company Norway, in Stavanger, Norway. He has worked in mechanical engineering and rotating equipment fields with Phillips since 1978.

Following high school, Mr. Sutler spent six years in the U.S. Navy Nuclear Power Program. He received an Associate of Science degree from Central Wyoming College and a B.S. degree (Mechanical Engineering) from The University of Wyoming. He is a member of API RP-686 First Edition and API 614 Fourth Edition Task Forces, and is a former leader of the Process Industry Practices (PIP) Machinery Function Team.



J. Phillip (Phil) Smith is with Texaco, in Bellaire, Texas. He has 40 years of experience in civil engineering design and construction.

Mr. Smith has a BSCE (1957) from the University of Santa Clara and an M.S. degree (1958) from Stanford University. He is a Texaco Fellow Emeritus and a Fellow of ASCE.

SHORT COURSE 6
on
MAINTENANCE ISSUES FOR RECIPROCATING COMPRESSORS



Leon C. (Lee) Golder is Manager, Client Training, with Dresser-Rand Company, in Painted Post, New York. In this position, he has responsibility for directing client training for all product lines at the various U.S. manufacturing plants. His responsibilities encompass assessing client product training needs, advancing training technology, along with marketing and selling Dresser-Rand product training services. Mr. Golder has 13 years experience in reciprocating compressor instruction and program development on maintenance and operation of reciprocating compressors and gas engines. Prior to his present position, he was Manager, Product Training, Reciprocating Products; Product Engineer; and Senior Technical Engineer.

Mr. Golder has an Associates degree (Mechanical Technology, 1970), a B.S. degree (Mathematics/Physics, 1977), and an M.S. degree (Adult Education, 1997).



Robert (Bob) Webber is Director of Machinery Optimization Services for Beta Machinery Analysis Inc., in Olathe, Kansas. Beta Machinery Analysis Inc. was begun in 1967 and supplies design and field engineering services that provide industry with economically focused and risk driven solutions to machinery-intensive businesses. Mr. Webber has been involved in machinery analysis for more than 15 years in all facets of the business from providing the service to developing programs. He is currently responsible for business development for Beta Machinery's machinery optimization services and is actively engaged in training machinery analysts for client companies.
