DISCUSSION GROUP 1

on

TURBOMACHINERY OPERATION AND MAINTENANCE

Charles R. (Charlie) Rutan, Coordinator, is an Engineering Fellow for Lyondell/Equistar Chemicals, LP, at the Chocolate Bayou Chemical Complex, in Alvin, Texas. Initially, he was a Project Engineer for Monsanto Company, then moved into equipment specification, installation, startup, and problem solving. After Monsanto, Mr. Rutan worked for Conoco Chemicals, DuPont, and Cain Chemicals. He was a Mechanical Area Maintenance Manager at the Chocolate Bayou facility prior to being promoted to his present position.

Mr. Rutan received his B.S. degree from Texas Tech University (1973). He was appointed to the Texas Tech University Department of Mechanical Engineering Academy of Mechanical Engineers and is a member of the Turbomachinery Symposium Advisory Committee. He has been active in ASME, the Turbomachinery and the International Pump User’s Symposia, the Southern Gas Compression Conference, the Hydraulic Institute, and AIChE.

Richard Beck, Coordinator, has been the Equipment Reliability Group Supervisor at Chevron Phillips Chemical Company, Cedar Bayou Plant, in Baytown, Texas, since 1990. He has been employed with Chevron since May 1980, primarily in the equipment inspection and machinery reliability fields. Mr. Beck serves as the team leader of the Chevron Phillips Chemical Machinery Best Practice team and is one of the implementation coordinators for a company-wide reliability software system. His previous Chevron assignments include work at the Pascagoula, Mississippi, refinery; the Belle Chasse, Louisiana, chemical plant; and the Maua, Brazil, chemical facility.

Mr. Beck completed his undergraduate studies at Mississippi State University (Education, 1979) and taught high school mathematics prior to his career with Chevron. He is the former chairperson of API 685 and is a current member of the Sealless Centrifugal Pump Task Force group.

Mark Cooper is a Senior Machinery Engineer with Equistar Chemicals, LP, in the Machinery and Reliability Engineering Department, in Channelview, Texas. He has been involved for the past 10 years with machinery reliability, root cause failure analysis, and machinery design improvements for polymer, chemical, and olefins units within Equistar Chemicals.

Mr. Cooper received a B.S. degree (Mechanical Engineering) from Lamar University in (1991).

John R. East is Manager of Engineering and Technical Services for Hickham Industries, Inc., in LaPorte, Texas. His position also entails consultation, troubleshooting, and problem solving in the shop, as well as in the field. Additionally, he is closely involved with engineering and training functions related to turbomachinery analysis, repair, and balancing. He was previously the Staff Mechanical Equipment Technologist for Chevron U.S.A., Inc.

Mr. East was a member of the API Standard 670 Task Forces (Second and Third Editions) and is presently a task force member of the new API RP687, “Repair of Special Purpose Rotors.”

Darren P. Hebert is a Staff Engineer for Shell Deer Park Refining Services Company, in Deer Park, Texas. He has 13 years of experience in the oil and petrochemical industry and has been involved with rotating equipment for the last nine and one half years. Mr. Hebert presently supports the distillation, alkylation, and coker areas. In this role, his responsibilities include troubleshooting, repair, and upgrade of plant rotating equipment. He is also the focal point for mechanical seals inside the refinery and sits on the corporate mechanical seal team.

Mr. Hebert received a B.S. degree (Mechanical Engineering, 1988) from Lamar University.
Jose (Joe) Moreno is a Senior Machinery Engineer for Equistar Chemicals (formerly Lyondell Petrochemical) at the Channelview, Texas facility. His responsibilities include providing technical direction and support on rotating equipment issues for the site’s two olefin units. Prior to his current position, Mr. Moreno worked for OxyChem in Dallas, Texas, and also at Oxy’s Chocolate Bayou facility.

Mr. Moreno has a B.S. degree (Mechanical Engineering) from Texas A&M University.

Eric Sandle is the President and Founder of Sandle Custom Bearing Corporation, in Wellsville, New York. His career began after completing a five-year apprenticeship in England as a Toolroom Machinist. He then worked as a draftsman with a consulting engineering company on tooling design for Ford Motor Company and as a designer with a specialist engineering company. After immigrating to Canada, Mr. Sandle worked on tooling design for General Motors and was then promoted as project manager responsible for design and manufacture of industrial robots. He moved to Texas and worked as chief designer for Centritech Corporation and ultimately became Vice President. In 1985, he moved to New York and founded Sandle Custom Bearings.

Mr. Sandle studied at Wandsworth Technical College and obtained a first-class certificate in Machine Shop Engineering.
DISCUSSION GROUP 2

on

VIBRATION MONITORING

Michael J. Drosjack, Coordinator, is Senior Engineering Advisor in the Reliability and Process Safety Department of Equilon Enterprises LLC, in Houston, Texas. He is responsible for providing technical support for rotating and reciprocating machinery to Equilon, Motiva refining companies, and Shell Chemical’s manufacturing facilities. Since joining Shell in 1975, he has had assignments on projects involving specification, evaluation, installation, and startup of machinery along with extensive field troubleshooting, particularly in the area of vibration measurement, vibration analysis, and rotordynamics.

Dr. Drosjack received his B.S. degree (Mechanical Engineering, 1970) from Carnegie-Mellon University, and his M.S. (1971) and Ph.D. (1974) degrees (Mechanical Engineering) from The Ohio State University. He is a member of ASME, the Vibration Institute, the Machinery Subcommittee of the Ethylene Products Committee, participates in API task forces, and has been a speaker and panelist for NPRA. He has been a Turbomachinery Symposium Advisory Committee member since 1986.

John R. (Johnny) Dugas, Jr., Coordinator, is Senior Technical Associate in the P&IP Department of E.I. duPont de Nemours and Company, Inc., in Orange, Texas. Since 1980, he has been assigned to the Technical Department of the ethylene manufacturing facility where he is involved in repair, troubleshooting, redesign, and specification of turbomachinery and other process equipment.

He has worked at DuPont since graduating from the University of Southwestern Louisiana with a B.S. degree (Mechanical Engineering, 1973). Previous activities with DuPont dealt with maintenance and construction of mechanical equipment including assignments with DuPont’s Construction and Field Service Divisions. He is a registered Professional Engineer in the State of Texas.

Brent E. Churchill is a Staff Engineer with Deer Park Refining Services Company, a division of Equilon, agent for Shell Deer Park Refining Company, in Deer Park, Texas. He is currently assigned to the Electrical Mechanical Department at the Deer Park Refinery. He is responsible for providing rotating equipment support to hydroprocessing and sulfur recovery processing units. This includes providing technical support to operations and maintenance for troubleshooting, repairing, turnaround planning, projects, energy utilization, mechanical integrity, upgrade/revamp of plant equipment, and developing preventive/predictive maintenance programs. Mr. Churchill has been in the Electrical Mechanical Department for four and one half years. Prior to his current assignment, he was at Shell’s Martinez Refinery for seven years in various mechanical engineering positions.

Mr. Churchill received his B.S. degree (Mechanical Engineering) from California State University, Fresno. He is a registered Professional Engineer in the State of California.

Daniel G. (Dan) Hale is a PPM Technician for the DuPont Ethylene Plant, Sabine River Works, in Orange, Texas. He is responsible for the periodic vibration monitoring in the ethylene cracking unit, tending the equipment, troubleshooting, making recommendations, and writing job orders. Mr. Hale has had four years in the electric motor overhaul and repair business, 19 years of millwright experience, and 10 years full-time vibration monitoring and diagnostics.
Anthony F. (Tony) Soby is a Staff Engineer with Equilon Enterprises LLC, in Martinez, California. He has been with Equilon Enterprises for a little more than a year and with Shell Oil Company prior to that for 29 years. His primary focus has been equipment reliability improvement. He has been responsible for the development and implementation of vibration monitoring programs for both general purpose and critical process machinery. Most recently, Mr. Soby has completed several reliability improvement projects on hydrogen recycle machines at the Martinez Refining Company including a seal oil system revamp along with seal and bearing upgrades. He is also chairing a committee for the development of a corporate condition monitoring guideline.

L.E. (Ed) Watson is a consultant with E.I. Dupont de Nemours & Company, Inc., located in Houston, Texas. He works in the DuPont Engineering Technologies Division of DuPont Engineering. His responsibilities include the specification and repair of turbomachinery and other rotating equipment, vibration and stress analysis, predictive maintenance and equipment reliability improvement, process equipment application, and general engineering consulting on machinery and processes. Mr. Watson has been with DuPont for almost 27 years and works on capital projects and engineering support of plant operations. He previously worked as a designer for Lufkin Industries and as a production engineer with Humble Oil.

Mr. Watson has a B.S. degree from Lamar University and an M.S. degree from The University of Texas at Austin (both in Mechanical Engineering). He is active in the Vibration Institute and is a past chairman of both the Triplex Chapter and Houston Chapter of the Vibration Institute.
DISCUSSION GROUP 3
on
MACHINERY PURCHASING

Terryl Matthews, Coordinator, is a Senior Mechanical Engineering Associate with The Dow Chemical Company, Design and Construction, Houston, Texas. His responsibilities since joining Dow (1973), include specifications, technical support, mechanical and performance testing, consulting, and field assistance in the area of rotating equipment for Dow Chemical worldwide.

Mr. Matthews holds a B.S. degree (Mechanical Engineering, 1972) from the University of Houston. He is a member of ASME, a member of the ASME International Gas Turbine Institute's Industrial and Cogeneration Committee, a member of the ASME B73 Chemical Standard Pump Committee, a member of the API Committee on Refinery Equipment, and is a registered Professional Engineer in the State of Texas.

Michael E. (Mike) Higgins, Coordinator, is Director, Business Development, for Dresser-Rand in Houston, Texas. In his current capacity, he is responsible for equipment sales for Dresser-Rand Americas. Mr. Higgins joined Ingersoll-Rand in 1966 and continued with Dresser-Rand. After a 10 year absence with Stewart & Stevenson and GE/Nuovo Pignone, he rejoined Dresser-Rand in December 2000.

Mr. Higgins received a B.S. degree (Civil Engineering, 1966) from Texas A&M University.

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 API’s Committee for Refinery Equipment. He is Convenor and Project Leader for ISO Standard 10438 (API 614), and Vice Chairman of API Standard 617.

John A. Brossack has been the Senior Purchasing Supervisor in the Mechanical Multi-Project Acquisition Group, MMPAG, in Bechtel’s Houston office, since 1995. He is responsible for the purchase of turbomachinery and direct fired equipment. He has managed procurement activities for gas turbines and compressors for a wide range of petrochemical and pipeline projects. Mr. Brossack has 27 years of both field and home office procurement experience in the engineering and construction industry. He joined the construction group of Foster Wheeler Corporation, in 1972, in the Field Procurement and Materials Management department. From 1972 until 1988, he performed these duties at several jobsite locations in the United States and Canada. He joined the Procurement Department with Bechtel Corporation, in Houston, Texas, in 1988, where he worked as a mechanical equipment buyer until moving to his current position.

Mr. Brossack has a B.S. degree (Business Administration, 1972) from Tri-State College, Angola, Indiana.

Ramesh P. Patel is a Sales Engineer with Dresser-Rand Company, in Houston, Texas. He has been with Dresser-Rand since 1966. Mr. Patel has the total sales/marketing responsibility of key clients’ compressor, gas turbine, steam turbine, and hot gas expander requirements. He is responsible for providing complete proposals, both commercial and technical, to various client process needs such as: ethylene plants, LNG, FCC, pipeline, air separations, methanol, refinery, injection. He also provides/negotiates commercial terms.

Mr. Patel received a B.S. degree (Chemical Engineering, 1965) from the University of New Mexico, Albuquerque and is a registered Professional Engineer in the State of Texas.
Donald Ravicchio is Vice President Marketing with Elliott Company, in Jeannette, Pennsylvania. He has worked at Elliott for 33 years in various positions involved with the design and application engineering of steam turbines and compressors. His most recent assignments have been in the sales and marketing area.

Mr. Ravicchio has a B.S. degree (Mechanical Engineering) from West Virginia University and is a registered Professional Engineer in the State of Pennsylvania.

W.J.H. (Bill) Somerville is an independent consultant with over 19 years' experience in the design, procurement, construction, commissioning, and project management of natural gas compressor station and pipeline facilities, the leadership of people and teams, and the implementation of strategic procurement and supplier quality/improvement programs. He has worked for NOVA Corporation, TransCanada Pipelines, Alliance Pipeline, both domestically and internationally, as well as Air New Zealand and Shell Petroleum Development Company of Nigeria.

During his career, Mr. Somerville has had the following responsibilities: project management, design and installation/commissioning supervision, strategic procurement, supervision of materials procurement/contracting teams, mechanical design and multidiscipline project teams, as well as preliminary and detailed mechanical station design. He has extensive experience with the specification, evaluation, award, installation, and commissioning of turbomachinery.

Mr. Somerville graduated with a B.A.Sc. degree (Mechanical Engineering, 1982) from the University of Waterloo, and is a registered Professional Engineer in the Province of Alberta.

E.V. (Van) Wilkinson is an Engineering Advisor with Shell Chemical Company, in Houston, Texas. He is currently assigned to the Engineering Equipment Department of Plant Engineering and Construction. In this assignment, he is responsible for specification, evaluation, and systems integration of rotating equipment for new processing plants. He also provides field installation, commissioning, and startup support for this new machinery.

Mr. Wilkinson has a B.S. degree (1973) and an M.S. degree (1975) in Mechanical Engineering from the University of Florida. While in college, he was a member of Pi Tau Sigma and Tau Beta Pi professional fraternities. He is a member of the Machinery Function Team of Process Industries Practices (PIP) organization. Mr. Wilkinson is a registered Professional Engineer in the State of Texas.
S. Paul Mohan, Coordinator, is a Staff Transmission Engineer at Williams Gas Pipelines-TRANSCO, in Houston, Texas. He is responsible for projects aimed at improving reliability, operability, and maintainability of pipeline compressor stations. Previously, at Dresser Clark, he was involved in extensive rotordynamics work and conducted tests on new bearing and seal designs for high pressure barrel compressors. For the next six years, he was with Exxon Chemical Company. He provided consulting assistance on equipment troubleshooting, vibration monitoring, and retrofit projects. He participated in the startup of Exxon’s largest olefin plant. In 1982, he joined Transco and participated in the commissioning of the Great Plains Gasification Project.

Mr. Mohan received his B.S. degree (Mechanical Engineering) from I.I.T. Madras, India, and an M.S. degree (Mechanical Engineering, 1972) from the University of Virginia. He has written several technical papers and is a member of ASME and the Vibration Institute.

Roy E. Craddock III, Coordinator, 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.

Brent A. Hetrick is with Texaco, Inc., in Bellaire, Texas.

Richard A. (Rich) Lewis is a Mechanical Associate at Dow Chemical in Houston, Texas. He has over 30 year’s experience in rotating equipment, and has spent the last 13 years with Dow Chemical in the rotating equipment area. He works with compressors, turbines, pumps, agitators, gears, centrifuges, extruders, and other critical and noncritical rotating equipment. Before joining Dow Chemical, he was Test Engineer, Senior Compressor Application Engineer, and Manager of Zone Engineering with Elliott Company.

Mr. Lewis received a BSME from Penn State University, and is a registered Professional Engineer in the State of Texas. He is a member of the ASME B73 committee, PIP Machinery Function Team, API Mechanical Steering Team, API Subcommittee on Mechanical Equipment, and has served on API Task Forces 619, 674, and 617, where he has served as both a manufacturer’s representative and as a user. He is currently Chairman of the API 614 Task Force.
DISCUSSION GROUP 5  
on  
FLUID FILM BEARINGS AND FLUID FILM SEALS

John B. Cary, Coordinator, is Vice President of Advanced Reliability Technologies, LLC, in Benicia, California. He consults on the development and application of streamlined reliability centered maintenance strategies. He has over 24 years of experience in the hydrocarbon processing and petrochemical industries, responsible for reliability improvement programs.

Mr. Cary was previously with Tosco Refining Company. He was instrumental in the development and implementation of a comprehensive computerized maintenance management system, and led development of the first computer-based data collection system for pipe thickness corrosion monitoring.

Mr. Cary is a 1974 graduate of Columbia College and received his B.S. degree from the University of San Francisco. He has authored and presented several technical papers. He is a member of the Turbomachinery Symposium Advisory Committee and the Vibration Institute.

Gampa I. Bhat, Coordinator, is Chief Machinery Engineer for ExxonMobil Chemical Company, in Baytown, Texas. As Lead Specialist, he acts as the focal point for the ExxonMobil Chemical Worldwide Machinery Network and is involved with the development of machinery strategies for new and upgrade projects. He is also involved in the selection, operation, maintenance, and troubleshooting of machinery systems. Before joining ExxonMobil, he worked as a Machinery Application Engineer for Union Carbide Corporation, in Charleston, West Virginia.

Mr. Bhat received his B.S. degree (Mechanical Engineering) from Karnataka University in India, and an M.S. degree from West Virginia College of Graduate Studies. He is a member of ASME.

Hurlel G. Elliott is a private Engineering Consultant with a major petrochemical company, in League City, Texas. His present responsibilities include staff support for rotating equipment involving specification development and procurement, design audits, rerates, installation, and startups. Prior to his present job, Mr. Elliott spent nine years each with Saudi Petrochemical Company and Exxon Chemicals performing plant support activities in maintenance, troubleshooting, and vibration analysis. Mr. Elliott’s experience also covers a variety of staff support positions with Toro Manufacturing Corporation in Minneapolis, Minnesota, and Aluminum Company of Canada. He has authored several technical papers and has contributed articles to two books.

Mr. Elliott has a B.S. degree (Mechanical Engineering, 1971) from the University of the West Indies and is a member of the Vibration Institute and ASME.

John K. Whalen is the Engineering Manager and President of TCE/Turbo Components and Engineering, Inc., in Houston, Texas. He spent seven years at Turbodyne Steam Turbines (Dresser-Rand) as a Product Engineer in the Large Turbine Engineering Department and as an Analytical Engineer in the Rotordynamics Group of the Advanced Engineering and Development Department.

In 1988, Mr. Whalen accepted a position with Centritech, as the Assistant Chief Engineer. In 1989, he was promoted to Manager of Engineering. In 1991, he left Centritech to help start TCE. At TCE, he is responsible for the engineering department and engineering for the product lines, which include babbitted journal and thrust bearings, labyrinth seals, and related engineering services.

Mr. Whalen received his B.S. degree (Mechanical Engineering, 1981) from the Rochester Institute of Technology. He is a member of ASME, STLE, and the Vibration Institute, and is a registered Professional Engineer in the State of Texas.
DISCUSSION GROUP 6
on
DRY GAS SEALS

John B. Cary, Coordinator, is Vice President of Advanced Reliability Technologies, LLC, in Benicia, California. He consults on the development and application of streamlined reliability centered maintenance strategies. He has over 24 years of experience in the hydrocarbon processing and petrochemical industries, responsible for reliability improvement programs.

Mr. Cary was previously with Tosco Refining Company. He was instrumental in the development and implementation of a comprehensive computerized maintenance management system, and led development of the first computer-based data collection system for pipe thickness corrosion monitoring.

Mr. Cary is a 1974 graduate of Columbia College and received his B.S. degree from the University of San Francisco. He has authored and presented several technical papers. He is a member of the Turbomachinery Symposium Advisory Committee and the Vibration Institute.

Peter C. Rasmussen, Coordinator, is an Advisor in the Technology Applications Division of ExxonMobil Upstream Research Company, in Houston, Texas. He is responsible for developing applications in the LNG and gas area as well as machinery support to the upstream companies. He began his career in machinery with General Electric as a Field Engineer installing and maintaining gas and steam turbines. Mr. Rasmussen joined Mobil in 1978 in the New Orleans E&P Operating Company as a Machinery Engineer and has since held several positions in engineering and operations. His work has included design, construction, and startup of offshore production platforms and LNG plants.

Mr. Rasmussen received his B.S. degree (Ocean Engineering, 1974) from Florida Atlantic University, Boca Raton. He is a registered Professional Engineer in the State of Texas, and is a member of the Turbomachinery Symposium Advisory Committee.

Steve Cole is a Senior Machinery Engineer in the Machinery and Reliability group of ExxonMobil Production Company’s Central Engineering Department. Although based in Houston, Mr. Cole’s primary responsibility is to provide rotating equipment engineering support to Exxon Mobil’s worldwide upstream affiliates. This support runs the full spectrum from assisting with equipment sizing and selection to participating in machinery commissioning and startup activities and in executing failure analysis and troubleshooting programs. Recent assignments have included an LNG plant in Qatar, an offshore NLG platform in Nigeria, and a heavy oil production facility in Venezuela.

Mr. Cole has a B.S. degree (Mechanical Engineering, 1993) from Texas A&M University. During his undergraduate coursework, he operated a test facility designed to quantify the leakage properties of newly developed labyrinth seal geometries.

Joe Delrahim is Marketing Segment Manager of Dry-Running Gas Seals with John Crane Inc., in Morton Grove, Illinois. Of his 18 years with John Crane, he spent 13 as an Engineer or Engineering Supervisor, in charge of designing dry-running gas sealing technology.

Mr. Delrahim holds a B.S. degree (Mechanical Engineering) from the University of Oklahoma, and an MBA from the Lake Forest Graduate School of Management, Illinois.

Martin J. (Marty) Klosek, is a Compressor Seal Specialist for the Flowserve Corporation, Flow Solutions Division, in Bridgeport, New Jersey. He is responsible for compressor seal sales and technical services within the northeast region of the United States. He has worked in his field since the beginning of his employment with BW/IP International, Inc., in 1994. In 1997, BW/IP International, Inc., and the Durco Corporation merged to form the Flowserve Corporation.

Mr. Klosek received a B.S. degree from Drexel University.
Larry Leonard has recently started his own rotating equipment consulting business and is currently on full time contract to Tosco Refining Company, Rodeo, in the San Francisco Bay area. He has worked in the oil and gas industry for the past 24 years. Most of his experience is in rotating equipment reliability; however, he has an extensive background in equipment applications and rotating equipment project management. He plays a key role in engineering support for Tosco’s gas turbines and their critical centrifugal compressors. He has helped Tosco implement vibration monitoring systems and develop condition monitoring programs for their high speed turbomachinery. Some of his technical skills include vibration analysis and developing and coordinating work scopes for refinery critical rotating equipment. He has experience with gas turbines, centrifugal compressors, pumps, and gears.

Mr. Leonard is a graduate of the University of California, Berkeley, holding both B.S. and M.S. degrees (Mechanical Engineering).

Joseph M. (Joe) Shea is a Senior Staff Engineer with Equilon Enterprises LLC, in Houston, Texas. He is currently assigned to the Reliability & Process Safety Department at the Westhollow Technology Center. Mr. Shea is responsible for providing technical support for rotating and reciprocating machinery to the Shell, Equilon, and Motiva operating facilities. Since 1980, he has had various assignments at chemical and refining locations related to installation, startup, evaluation, troubleshooting, and repair of machinery.

Mr. Shea received his B.S. degree (Mechanical Engineering, 1980) from Virginia Polytechnic Institute and State University. He is currently Chairman of the corporate Seal Committee and is participating on the API 682 Task Force. He also chairs the corporate Machinery Thermodynamic Performance Committee.

Richard W. (Rich) Wilson is a Senior Staff Engineer for Motiva Enterprise’s Delaware City refinery, and has served as a Senior Reliability Engineer since 1985. He is involved with all facets of rotating equipment in the plant including design, installation, operation, maintenance, and diagnostic evaluation of all refinery machinery. Since being assigned to the reliability engineering group in 1979, Mr. Wilson has been involved with many equipment reliability improvements such as dry gas seal conversions, electronic governor upgrades, and tilt pad bearing retrofits.

Mr. Wilson participated on a dry gas seal panel at University of Virginia’s “Romag 91” Conference for Dry Gas Seals in March 1991, and presented a paper on dry gas seals at Saudi Refining’s Rotating Equipment Technical Exchange meeting in October 1992.

Mr. Wilson has a B.S. degree (Mechanical Engineering) from University of Delaware. He is a member of ASME and the Delaware Valley Chapter of the Vibration Institute.
Scott C. McQueen, Coordinator, is Manager of Turbines and Central Shop Division at Reliant Energy, in Houston, Texas. He has 15 years of experience with maintenance and repair of large turbines. Currently, he is responsible for all maintenance activities associated with steam turbines and combustion turbines on Reliant Energy's regulated side. He is also responsible for Reliant Energy’s EDC Central Repair Shop. Over the years, Mr. McQueen has contributed a number of papers to various utility organizations including EPRI, the ASME IJPGC, Westinghouse Users Group Conference, and others. He is also a member of the EPRI utility advisory committee for steam turbine outage interval extension.

Mr. McQueen is a 1985 graduate of The University of Texas at El Paso with a B.S. degree in Mechanical Engineering.

Peter C. Rasmussen, Coordinator, is an Advisor in the Technology Applications Division of ExxonMobil Upstream Research Company, in Houston, Texas. He is responsible for developing applications in the LNG and gas area as well as machinery support to the upstream companies. He began his career in machinery with General Electric as a Field Engineer installing and maintaining gas and steam turbines. Mr. Rasmussen joined Mobil in 1978 in the New Orleans E&P Operating Company as a Machinery Engineer and has since held several positions in engineering and operations. His work has included design, construction, and startup of offshore production platforms and LNG plants.

Mr. Rasmussen received his B.S. degree (Ocean Engineering, 1974) from Florida Atlantic University, Boca Raton. He is a registered Professional Engineer in the State of Texas, and is a member of the Turbomachinery Symposium Advisory Committee.

Edmond J. (Ed) Jardine is the Business Unit Leader for Gas Turbine Components, TurboCare, in East Hartford, Connecticut. TurboCare is a division of Demag Deleval Turbomachinery Company, in Chicopee, Massachusetts. His current responsibilities cover the aspects of establishing the latest state-of-the-art gas turbine component repair and turbine blade manufacturing facility.

His past responsibilities included establishing gas turbine component repair processes and facilities in the United States and the Middle East. He has 22 years of experience in metallurgical repair processes, such as material rejuvenation, brazing, welding, high temperature coatings, and NDT examinations.

Mr. Jardine was employed by Pratt & Whitney (Materials Engineering Research Laboratory) and Sermatech International (Coatings and Repair Facilities) prior to TurboCare.

Quentin K. Stewart is Program Manager for Power Generation Sales, Solar Turbines, Inc., in Houston, Texas. He has 25 years' experience in Solar Turbines' customer service and power generation sales organizations, with various management positions in Mexico, Louisiana, Belgium, and Texas. Mr. Stewart was previously Manager of Overhaul at the DeSoto, Texas, overhaul facility.

Mr. Stewart has a B.S. degree from Brigham Young University and an M.B.A. degree from Utah State University. He is a member of ASME.
DISCUSSION GROUP 8  
on  
COUPLINGS AND ALIGNMENT

Terryl Matthews, Coordinator, is a Senior Mechanical Engineering Associate with The Dow Chemical Company, Design and Construction, Houston, Texas. His responsibilities since joining Dow (1973), include specifications, technical support, mechanical and performance testing, consulting, and field assistance in the area of rotating equipment for Dow Chemical worldwide.

Mr. Matthews holds a B.S. degree (Mechanical Engineering, 1972) from the University of Houston. He is a member of ASME, a member of the ASME International Gas Turbine Institute's Industrial and Cogeneration Committee, a member of the ASME B73 Chemical Standard Pump Committee, a member of the API Committee on Refinery Equipment, and is a registered Professional Engineer in the State of Texas.

James H. Hudson, Coordinator, is Consultant for A-C Compressor Corporation, in Appleton, Wisconsin. He began his career with Allis Chalmers Corporation in 1965 and served in many capacities. In 1985, A-C Compressor Corporation purchased the Compressor Division from Allis Chalmers, and he became Manager of Engineering. He assumed his current position in 1987.

Mr. Hudson graduated with a BSME from Newark College of Engineering (1965). He has been a Task Force member on the Fourth, Fifth, and Sixth Editions of the API 617 Specification for Centrifugal Compressors, the API Task Forces on Quality Improvement, Rotordynamics, and 671 for Couplings. He presently is a member of the API 617 Seventh Edition Task Force and the API 684 Second Edition Task Force and has published papers on torsional vibration and lateral vibration. Mr. Hudson is a registered Professional Engineer in the State of Wisconsin and holds two United States patents.

Royce N. Brown is Consultant and owner of RNB Engineering, in Houston, Texas. He retired from Dow Chemical in 1995 after 28+ years. His responsibilities there included specifications, instrumentation, controls, and consulting and field assistance for large rotating equipment. He has written 30+ technical papers, including a contribution to the ASM Handbook, Friction, Lubrication, and Wear Technology, and a book, Compressors, Selection and Sizing.

Mr. Brown is a fellow member of ISA and ASME, a member of SME, AIChE, the Vibration Institute, and an associate member of SAE. He is a member of the API Subcommittee on Mechanical Equipment, and Chairman of the API 617 Task Force on Centrifugal Compressors.

Mr. Brown is a registered Professional Engineer in the States of Texas, Michigan, Louisiana, Wisconsin, and California. He has a B.S. degree (Mechanical Engineering) from the University of Texas and an M.S. degree (Mechanical Engineering) from the University of Wisconsin.

Donald B. (Don) Cutler is Technical Service Manager for the Thomas Flexible Disc Coupling Operations of Rexnord Corporation, in Warren, Pennsylvania. He spent five years as a field service supervisor with Dresser Clark. During this period, he developed an optical hot alignment check system for the rotating equipment along with graphical analysis of reverse indicator alignment. He then served eight years leading up to Head Contract Engineer for Dresser Clark, before joining Rexnord as Manager of Engineering.

In the past, Mr. Cutler has been a tutorial speaker on coupling hydraulic mounting at the Turbomachinery Symposium. He holds a patent on coupling balancing. He also serves on active committees with both API and AGMA in coupling specification development.

Mr. Cutler graduated from the University of Vermont with a B.S. degree (Mechanical Engineering, 1954). He went to graduate school at New York University in Meteorology while with the United States Air Force.

Scott Kaffka is Engineering Manager for High Performance Products at Ameridrives Coupling Products, in Erie, Pennsylvania. Prior to joining Ameridrives in 1999, he spent four years as Project Engineer and Team Leader at Waukesha Bearings Corporation, which specializes in design and manufacture of custom fluid film bearings, and five years as Research and Design Engineer with Lamson Corporation specializing in the design of multistage centrifugal blowers and exhausters.

Mr. Kaffka has a B.S. degree (Mechanical Engineering) from Clarkson University, and an M.S. degree (Engineering Management) from Syracuse University. He is a member of ASME and API, and an active member of the AGMA Flexible Couplings Committee.
David E. Littlefield is a Senior Design Associate with Dow Chemical U.S.A. in Freeport, Texas. He joined Dow’s Engineering and Construction Services Division in 1979, working primarily in the Rotating Equipment Group. He transferred to Texas Operations in 1983, where he has worked in the Mechanical Technology Group, troubleshooting and specifying rotating and general mechanical equipment.

Mr. Littlefield is a 1979 B.S. (Mechanical Engineering) graduate of Texas A&M University. He is a member of ASME and is a registered Professional Engineer in the State of Texas.
DISCUSSION GROUP 9
on
PERFORMANCE TESTING

**Meherwan P. Boyce, Coordinator**, is Managing Partner of The Boyce Consultancy, in Houston, Texas. He has 40 years of experience in the turbomachinery field. His industrial experience covers 25 years from design of compressors and turbines to Chairman and CEO of Boyce Engineering International. His 15 years in academia include being Professor of Mechanical Engineering at Texas A&M University, and Founder of the Turbomachinery Laboratories and the Turbomachinery Symposium. Dr. Boyce has authored more than 100 technical publications and several books, including *Gas Turbine Engineering Handbook*. He has taught over 100 short courses globally attended by over 3000 students representing over 400 companies, and is a Consultant to the aerospace, petrochemical, and utility industries.

Dr. Boyce received a B.S. and M.S. degree (Mechanical Engineering) from the South Dakota School of Mines and Technology and the State University of New York, respectively, and a Ph.D. degree (1969) from the University of Oklahoma.

**Erwin A. Gaskamp, Coordinator**, is a Rotating Equipment Specialist with Bechtel Corporation in Houston, Texas. His present work involves application analysis, specification, selection, post order engineering coordination, and acceptance testing for rotating equipment on various projects. He has been involved with rotating equipment for more than 30 years, and has been with Bechtel Corporation since 1981. He has worked on more than 21 projects in the refining, petrochemical, chemical, mining, and cogeneration industries. He has had direct responsibility for application of large compressors, steam turbines, expanders, gas turbines, motors, and generators on projects around the world. He previously worked for M.W. Kellogg Company and Monsanto Company.

Mr. Gaskamp holds a Mechanical Engineering degree from Texas A&M University and is a member of the Turbomachinery Symposium Advisory Committee.

**Joseph M. (Joe) Shea** is a Senior Staff Engineer with Equilon Enterprises LLC, in Houston, Texas. He is currently assigned to the Reliability & Process Safety Department at the Westhollow Technology Center. Mr. Shea is responsible for providing technical support for rotating and reciprocating machinery to the Shell, Equilon, and Motiva operating facilities. Since 1980, he has had various assignments at chemical and refining locations related to installation, startup, evaluation, troubleshooting, and repair of machinery.

Mr. Shea received his B.S. degree (Mechanical Engineering, 1980) from Virginia Polytechnic Institute and State University. He is currently Chairman of the corporate Seal Committee and is participating on the API 682 Task Force. He also chairs the corporate Machinery Thermodynamic Performance Committee.

**Ed Wilcox** is the CVO Rotating Equipment Team Lead with Lyondell/Equistar, in Channelview, Texas. He is responsible for troubleshooting, repair, and condition monitoring of rotating equipment at both the Lyondell and Equistar facilities. Prior to this, he worked for more than 10 years with Conoco and Citgo as a Rotating Equipment Engineer. Mr. Wilcox has authored several papers in the areas of rotordynamics, vibration analysis, and performance testing.

He has a BSME degree from the University of Missouri-Rolla and an MSME degree from Oklahoma State University. He has also done postgraduate work at the Georgia Institute of Technology in the areas of lubrication, rotordynamics, and vibration. Mr. Wilcox is a Vibration Institute Level III Vibration Specialist and a registered Professional Engineer in the State of Oklahoma.
DISCUSSION GROUP 10
on
GEARS

Thomas R. (Tom) Davidson, Coordinator, is Area Maintenance Section Leader for Celanese Chemicals at their Clear Lake, Texas, facility. He joined Celanese in 1978. Through the efforts of his team of three area Team Leaders and two Planners, he is responsible for managing the overall maintenance activities for four production units and the plant utilities area. Prior to assuming his current position, he was Senior Rotating Equipment Engineer in the Clear Lake Plant, Maintenance Engineering Group.

Mr. Davidson received a B.S. degree (Mechanical Engineering, 1978) from the University of Houston. He is a member of the Turbomachinery Symposium Advisory Committee, ASME, NSPE, IMI, and the Vibration Institute. Mr. Davidson is a licensed Professional Engineer in the State of Texas.

Roy E. Craddock III, Coordinator, 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 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.

Erwin Dehner is the Managing Director of BHS-Cincinnati Getriebetechnik GmbH, Sonthofen, Germany. He has been working for more than 30 years in the gear business, especially for high power and high speed gears (mainly gearboxes for steam, gas turbine, compressor, and pump drives).

Mr. Dehner is convenor in ISO/TC60/SC2/WG11 for high speed enclosed gear drives and is also a member in the advisory group of FVA in Germany (a Research Association for Power Transmission Elements).

Paul F. Maier is a Senior Engineer in the Maintenance Engineering Department at the Celanese Chemical Plant, in Pasadena, Texas. He has worked in various maintenance assignments in industry since 1981 and has been with Celanese since 1989. In his current capacity, he provides rotating equipment support for several operating units. One of his primary responsibilities includes day-to-day support for analysis of machinery and process problems. He also provides support for several capital expansions and, as such, participates in the specification, selection, design, review, installation, and startup of rotating equipment.

Mr. Maier graduated from the United States Military Academy at West Point with a B.S. degree (General Engineering, 1976). He is a member of the Vibration Institute and the Society for Maintenance and Reliability Professionals.

James R. Partridge is with Lufkin Industries, Inc., in Lufkin, Texas. He was previously President of Euro Lufkin BV, Amsterdam, The Netherlands, and was responsible for Lufkin’s gear activities in Europe and Vice President of Lufkin Industries, Inc. USA. He served as Design Engineer, Oilfield Equipment; Design Engineer, Industrial and Marine Gears; Project Engineer, Industrial Gears; and Chief Engineer of the Gear Division.

Mr. Partridge received a B.S. degree (Mechanical Engineering) from Texas A&M University (1958) and has since been with Lufkin Industries. Mr. Partridge served as President of the American Gear Manufacturers Association in 1989-90. He was elected AGMA Treasurer in 1987, and in 1988 was Senior Vice President. Other AGMA activities include serving as a member of numerous committees. He is a registered Professional Engineer, and a member of the TSPE.
DISCUSSION GROUP 11
on
MOTORS AND VARIABLE SPEED DRIVES

Clifford P. (Cliff) Cook, Coordinator, is with Texaco, Inc., in Bellaire, Texas. He is Chairman of the API RP 687 Task Force on Repair of Special Purpose Rotors. He is a Texaco Fellow, registered Professional Engineer in the State of Texas, Chairman of the API Subcommittee on Mechanical Equipment, and a member of the Texas A&M Turbomachinery Symposium Advisory Committee. Mr. Cook is a member of API 617 (compressors), 613 (SP gears), 677 (GP gears), 616 (gas turbines), and past member of API 684 (rotordynamics tutorial), 610 (pumps), 618 (reciprocating compressors) task forces.

Mr. Cook has a B.S. degree from the U.S. Merchant Marine Academy, Kings Point, and an M.S. degree (Mechanical Engineering) from Lehigh University.

James H. Hudson, Coordinator, is Consultant for A-C Compressor Corporation, in Appleton, Wisconsin. He began his career with Allis Chalmers Corporation in 1965 and served in many capacities. In 1985, A-C Compressor Corporation purchased the Compressor Division from Allis Chalmers, and he became Manager of Engineering. He assumed his current position in 1987.

Mr. Hudson graduated with a BSME from Newark College of Engineering (1965). He has been a Task Force member on the Fourth, Fifth, and Sixth Editions of the API 617 Specification for Centrifugal Compressors, the API Task Forces on Quality Improvement, Rotordynamics, and 671 for Couplings. He presently is a member of the API 617 Seventh Edition Task Force and the API 684 Second Edition Task Force and has published papers on torsional vibration and lateral vibration. Mr. Hudson is a registered Professional Engineer in the State of Wisconsin and holds two United States patents.

Mike Costello is a Senior Specialist in the Electrical and Instrumentation Section of Texaco’s General Engineering Department, in Bellaire, Texas. He is responsible for the application, specification, and selection of electrical machinery for Texaco and Joint Venture refinery, exploration and production facilities, and operations.

Mr. Costello graduated from New Jersey Institute of Technology (Electrical Engineer, 1980). He is a member of the IEEE Industry Applications and Power Engineering Societies, and serves on a number of Subcommittees and Working Groups with the IEEE. He is Chairman of API 541 and Secretary of API 546, the American Petroleum Institute’s Standards for Induction and Synchronous Machines. He also Chairs the API Task Group on Electrical Standard Paragraphs.

Lee Hankins has been Senior Area Manager for low voltage and medium voltage drives for Allen-Bradley for the last 19 years, in The Woodlands, Texas. In this position, his responsibilities include: technical/application support, training and quotation assistance/price negotiation for outside sales and channels, customer technical seminars, and field liaison to the factory marketing group. Previously, Mr. Hankins was in outside sales of AC variable frequency drives for two years with IDM.

Mr. Hankins has a B.S. degree (Electrical Engineering Technology, 1970) from Purdue University.
DISCUSSION GROUP 12
on
RECIPIROCATING COMPRESSORS

S. Paul Mohan, Coordinator, is a Staff Transmission Engineer at Williams Gas Pipelines-TRANSCO, in Houston, Texas. He is responsible for projects aimed at improving reliability, operability, and maintainability of pipeline compressor stations. Previously, at Dresser Clark, he was involved in extensive rotordynamics work and conducted tests on new bearing and seal designs for high pressure barrel compressors. For the next six years, he was with Exxon Chemical Company. He provided consulting assistance on equipment troubleshooting, vibration monitoring, and retrofit projects. He participated in the startup of Exxon’s largest olefin plant. In 1982, he joined Transco and participated in the commissioning of the Great Plains Gasification Project.

Mr. Mohan received his B.S. degree (Mechanical Engineering) from I.I.T. Madras, India, and an M.S. degree (Mechanical Engineering, 1972) from the University of Virginia. He has written several technical papers and is a member of ASME and the Vibration Institute.

Fred R. Szenasi, Coordinator, is the President and Manager of Engineering at Engineering Dynamics, Inc., in San Antonio, Texas. In his career he has specialized in assessing the reliability of industrial machinery. His experience in rotordynamics includes the analysis of lateral and torsional vibration response of turbomachinery, analysis of rotor instabilities, balancing turbines and compressors, prediction of vibrational displacement, stress, and methods of failure detection.

Mr. Szenasi has presented technical papers, a tutorial, and hosted discussion groups for the Turbomachinery Symposium and the International Pump Users Symposium. He is a member of the Turbomachinery Symposium Advisory Committee.

Mr. Szenasi has a BSME degree from Texas Tech University and an MSME degree from the University of Colorado. He is a registered Professional Engineer in the State of Texas, and a member of ASME and the Vibration Institute.

Kenneth E. Atkins is a Senior Staff Engineer with Engineering Dynamics Incorporated, in San Antonio, Texas. He has extensive experience in the design and troubleshooting of a variety of mechanical systems involving reciprocating machinery, structural, and piping vibration problems. Mr. Atkins was a Research Engineer with Southwest Research Institute (1978 to 1981) and a Machinery Engineer with Exxon Chemical Americas (1981 to 1982). In 1982, he cofounded Engineering Dynamics Incorporated. He has authored several technical papers in the areas of reciprocating machinery, piping, and structural dynamics. He has lectured frequently at the Texas A&M Turbomachinery and Pump Symposia with both tutorials and short courses.

Mr. Atkins received a B.S. degree (Engineering Science, 1978) from Trinity University. He is a member of ASME and a registered Professional Engineer in the State of Texas. He is also a sub-task force member for pulsation and vibration control for API Standards 618 and 674.

Kelly M. Fort is a Senior Mechanical Specialist with The Dow Chemical Company, Dow Design and Construction Division, in Houston, Texas. His responsibilities since joining Dow (1985) have been in piping design and stress analysis, mechanical lead for capital project teams, and currently, for the last eight years, in the rotating equipment group for the Mechanical Design Section. Current duties include specifications, technical support, equipment testing, and field support.

Mr. Fort has a B.S. degree (Mechanical Engineering) from Lamar University (1985). He is a member of ASME and is a registered Professional Engineer in the State of Texas.
**Alan S. Pyle** is a Staff Engineer in the Mechanical Equipment Department of Shell Chemical’s Deer Park Chemical Plant, in Deer Park, Texas. He provides rotating equipment support to the olefins units. During his 25 years with Shell, he has been in various rotating equipment support assignments in refineries, natural gas liquids processing plants, and chemical plants. Mr. Pyle is currently a member of the task force that is preparing the Fifth Edition of API 618, “Specification for Reciprocating Compressors,” and is the Chairman of the task force that is writing a new API document RP688, “Tutorial on Pulsation Control,” that will supplement API 618.

Mr. Pyle joined Shell in 1976 after receiving a BSME degree from West Virginia University. He is a member of ASME and SAE.

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**James D. Tison** is a Senior Staff Engineer at Engineering Dynamics Incorporated, in San Antonio, Texas. He has been extensively involved in field measurements and computer modeling of rotating and reciprocating equipment for over 24 years. Mr. Tison was with Southwest Research Institute from 1977 to 1982, and cofounded Engineering Dynamics Incorporated in 1982. For the last 19 years, his work has been primarily related to development and improvement of software for the simulation of pulsation in compressor and pump piping systems, as well as overall responsibility for acoustic and mechanical design studies of reciprocating compressor and pump piping systems.

Mr. Tison holds B.S. and M.S. degrees (Mechanical Engineering, 1975, 1977) from the University of Florida. He is a member of ASME and is a member of the API 618 and API 674 pulsation and vibration control sub-task forces.
DISCUSSION GROUP 13
on
LARGE STEAM TURBINES

Merwin W. Jones, Coordinator, is Senior Engineering Consultant for Thermal Cycles at Mirant Corporation in Aquasco, Maryland. In this position, he provides a variety of internal consulting services to the engineering and maintenance staffs at the company’s facilities. Mr. Jones advises these groups on a wide range of issues related to the efficiency, reliability, and maintenance of equipment and systems within the power conversion areas of the power plants.
Since joining Mirant (formerly PEPCO) in 1972, he has been involved with modification or replacement of most equipment in the condensate, extraction, feedwater, cooling water, and turbine systems. He has written papers for the Electric Power Research Institute, the Edison Electric Institute, ASME, the Turbomachinery Symposium, and others.
Mr. Jones is a graduate of the Virginia Polytechnic Institute and State University with a B.S. degree (Mechanical Engineering). He is a member of ASME and is a registered Professional Engineer.

Scott C. McQueen, Coordinator, is Manager of Turbines and Central Shop Division at Reliant Energy, in Houston, Texas. He has 15 years of experience with maintenance and repair of large turbines. Currently, he is responsible for all maintenance activities associated with steam turbines and combustion turbines on Reliant Energy’s regulated side. He is also responsible for Reliant Energy’s EDC Central Repair Shop. Over the years, Mr. McQueen has contributed a number of papers to various utility organizations including EPRI, the ASME IJPGC, Westinghouse Users Group Conference, and others. He is also a member of the EPRI utility advisory committee for steam turbine outage interval extension.
Mr. McQueen is a 1985 graduate of The University of Texas at El Paso with a B.S. degree in Mechanical Engineering.

Donald R. (Don) Leger is the Marketing Director, for TurboCare, a Division of Demag Delaval Turbomachinery Company, in Chicopee, Massachusetts. Prior to TurboCare, his responsibilities covered mechanical drive steam turbines, feed pump turbines, and industrial turbine generator sets. He has 28 years of experience in steam turbine design, manufacturing, and project management.
Mr. Leger had 25 years of service with General Electric Company, in Fitchburg, Massachusetts, prior to joining TurboCare. During his career, he has authored many papers on steam turbine applications and design, and has presented at technical seminars throughout the world. Mr. Leger also served on the API 612 and ISO Working Group for special purpose steam turbines. He is a past member of the Turbomachinery Symposium Advisory Committee.
Mr. Leger has a B.S. degree (Mechanical Engineering) from Northeastern University.
DISCUSSION GROUP 14
on
MAINTENANCE MANAGEMENT

Merwin W. Jones, Coordinator, is Senior Engineering Consultant for Thermal Cycles at Mirant Corporation in Aquasco, Maryland. In this position, he provides a variety of internal consulting services to the engineering and maintenance staffs at the company’s facilities. Mr. Jones advises these groups on a wide range of issues related to the efficiency, reliability, and maintenance of equipment and systems within the power conversion areas of the power plants.

Since joining Mirant (formerly PEPCO) in 1972, he has been involved with modification or replacement of most equipment in the condensate, extraction, feedwater, cooling water, and turbine systems. He has written papers for the Electric Power Research Institute, the Edison Electric Institute, ASME, the Turbomachinery Symposium, and others.

Mr. Jones is a graduate of the Virginia Polytechnic Institute and State University with a B.S. degree (Mechanical Engineering). He is a member of ASME and is a registered Professional Engineer.

John B. Cary, Coordinator, is Vice President of Advanced Reliability Technologies, LLC, in Benicia, California. He consults on the development and application of streamlined reliability centered maintenance strategies. He has over 24 years of experience in the hydrocarbon processing and petrochemical industries, responsible for reliability improvement programs.

Mr. Cary was previously with Tosco Refining Company. He was instrumental in the development and implementation of a comprehensive computerized maintenance management system, and led development of the first computer-based data collection system for pipe thickness corrosion monitoring.

Mr. Cary is a 1974 graduate of Columbia College and received his B.S. degree from the University of San Francisco. He has authored and presented several technical papers. He is a member of the Turbomachinery Symposium Advisory Committee and the Vibration Institute.

John R. East is Manager of Engineering and Technical Services for Hickham Industries, Inc., in LaPorte, Texas. His position also entails consultation, troubleshooting, and problem solving in the shop, as well as in the field. Additionally, he is closely involved with engineering and training functions related to turbomachinery analysis, repair, and balancing. He was previously the Staff Mechanical Equipment Technologist for Chevron U.S.A., Inc.

Mr. East was a member of the API Standard 670 Task Forces (Second and Third Editions) and is presently a task force member of the new API RP687, “Repair of Special Purpose Rotors.”

Bruce Perry is Vice President of Thomason Mechanical Corporation, in Rancho Dominguez, California. His duties include sales and marketing, contract negotiations, and development of corporate policies. He has been involved with the petrochemical and power industries since 1984, providing parts and services for rotating and reciprocating machinery installation, maintenance, and overhaul.

Stephen C. (Steve) Rossi is a Principal Maintenance Engineer for rotating machinery at the Valero Refining Company, in Benicia, California, with responsibility for critical compressor trains. He has more than 20 years of experience on various systems, and has worked for a variety of petrochemical firms such as ExxonMobil, Tosco Refining Company, and Chevron. Earlier in his career, Mr. Rossi also worked as a Reliability Engineer for Pacific Gas and Electric Company on their gas transmission systems, specializing in engine compressors and engine protection systems.

Mr. Rossi holds a BSME degree from San Jose State University, and is a registered Professional Engineer in the State of California.
DISCUSSION GROUP 15

on

MAGNETIC BEARINGS

Gampa I. Bhat, Coordinator, is Chief Machinery Engineer for ExxonMobil Chemical Company, in Baytown, Texas. As Lead Specialist, he acts as the focal point for the ExxonMobil Chemical Worldwide Machinery Network and is involved with the development of machinery strategies for new and upgrade projects. He is also involved in the selection, operation, maintenance, and troubleshooting of machinery systems. Before joining ExxonMobil, he worked as a Machinery Application Engineer for Union Carbide Corporation, in Charleston, West Virginia.

Mr. Bhat received his B.S. degree (Mechanical Engineering) from Karnataka University in India, and an M.S. degree from West Virginia College of Graduate Studies. He is a member of ASME.

Richard Beck, Coordinator, has been the Equipment Reliability Group Supervisor at Chevron Phillips Chemical Company, Cedar Bayou Plant, in Baytown, Texas, since 1990. He has been employed with Chevron since May 1980, primarily in the equipment inspection and machinery reliability fields. Mr. Beck serves as the team leader of the Chevron Phillips Chemical Machinery Best Practice team and is one of the implementation coordinators for a company-wide reliability software system. His previous Chevron assignments include work at the Pascagoula, Mississippi, refinery; the Belle Chasse, Louisiana, chemical plant; and the Maua, Brazil, chemical facility.

Mr. Beck completed his undergraduate studies at Mississippi State University (Education, 1979) and taught high school mathematics prior to his career with Chevron. He is the former chairperson of API 685 and is a current member of the Sealless Centrifugal Pump Task Force group.

Doug A. Leonard is the Machinery Section Supervisor at the Exxon Baytown Olefins Plant, in Baytown, Texas. In this role, he provides direction for the maintenance and operation of machinery at the site. During his 10 years with Exxon, he has been involved in the selection, construction, startup, operation, and maintenance of pumps, compressors, steam turbines, and gas turbines.

Mr. Leonard received his BSME from the University of Wisconsin. He is a member of ASME.
DISCUSSION GROUP 16
on
SCREW COMPRESSORS

Erwin A. Gaskamp, Coordinator, is a Rotating Equipment Specialist with Bechtel Corporation in Houston, Texas. His present work involves application analysis, specification, selection, post order engineering coordination, and acceptance testing for rotating equipment on various projects. He has been involved with rotating equipment for more than 30 years, and has been with Bechtel Corporation since 1981. He has worked on more than 21 projects in the refining, petrochemical, chemical, mining, and cogeneration industries. He has had direct responsibility for application of large compressors, steam turbines, expanders, gas turbines, motors, and generators on projects around the world. He previously worked for M.W. Kellogg Company and Monsanto Company.

Mr. Gaskamp holds a Mechanical Engineering degree from Texas A&M University and is a member of the Turbomachinery Symposium Advisory Committee.

James H. Hudson, Coordinator, is Consultant for A-C Compressor Corporation, in Appleton, Wisconsin. He began his career with Allis Chalmers Corporation in 1965 and served in many capacities. In 1985, A-C Compressor Corporation purchased the Compressor Division from Allis Chalmers, and he became Manager of Engineering. He assumed his current position in 1987.

Mr. Hudson graduated with a BSME from Newark College of Engineering (1965). He has been a Task Force member on the Fourth, Fifth, and Sixth Editions of the API 617 Specification for Centrifugal Compressors, the API Task Forces on Quality Improvement, Rotordynamics, and 671 for Couplings. He presently is a member of the API 617 Seventh Edition Task Force and the API 684 Second Edition Task Force and has published papers on torsional vibration and lateral vibration. Mr. Hudson is a registered Professional Engineer in the State of Wisconsin and holds two United States patents.

John Bertucci is a Senior Rotating Equipment Engineer for Shell E&P Company in New Orleans, Louisiana. In this capacity, he is responsible for rotating equipment reliability improvement and troubleshooting for approximately one-half of Shell’s offshore platforms in the Gulf of Mexico. He previously held similar positions at Shell Oil’s Norco Refinery where he supported the alkylation, distilling, and hydrotreating areas, and Shell Chemical’s Norco Chemical Plant where he supported the olefins plant. Prior to joining Shell in 1988, Mr. Bertucci was employed by Walk, Haydel & Associates in New Orleans, Louisiana, and by Mobil Oil Corporation in Beaumont, Texas.

Mr. Bertucci received a B.S. degree (Mechanical Engineering, 1982) from the University of New Orleans and an M.S. degree (Engineering, 1994) from The University of New Orleans. He is a registered Professional Engineer in the State of Louisiana.

Richard A. (Rich) Lewis is a Mechanical Associate at Dow Chemical in Houston, Texas. He has over 30 year’s experience in rotating equipment, and has spent the last 13 years with Dow Chemical in the rotating equipment area. He works with compressors, turbines, pumps, agitators, gears, centrifuges, extruders, and other critical and noncritical rotating equipment. Before joining Dow Chemical, he was Test Engineer, Senior Compressor Application Engineer, and Manager of Zone Engineering with Elliott Company.

Mr. Lewis received a BSME from Penn State University, and is a registered Professional Engineer in the State of Texas. He is a member of the ASME B73 committee, PIP Machinery Function Team, API Mechanical Steering Team, API Subcommittee on Mechanical Equipment, and has served on API Task Forces 619, 674, and 617, where he has served as both a manufacturer’s representative and as a user. He is currently Chairman of the API 614 Task Force.
John R. (Johnny) Dugas, Jr., Coordinator, is Senior Technical Associate in the P&IP Department of E.I. duPont de Nemours and Company, Inc., in Orange, Texas. Since 1980, he has been assigned to the Technical Department of the ethylene manufacturing facility where he is involved in repair, troubleshooting, redesign, and specification of turbomachinery and other process equipment.

He has worked at DuPont since graduating from the University of Southwestern Louisiana with a B.S. degree (Mechanical Engineering, 1973). Previous activities with DuPont dealt with maintenance and construction of mechanical equipment including assignments with DuPont’s Construction and Field Service Divisions. He is a registered Professional Engineer in the State of Texas.

Carroll (Chet) Stroh, Coordinator, is Engineering Manager with Turbocare, Houston Facility, a division of Siemens Demag Delaval Turbomachinery Corporation. Mr. Stroh has over 30 years experience in the rotating equipment business. He started his career with Westinghouse Large Steam Turbine Division when it was located in Lester, Pennsylvania. While there, he was instrumental in bringing the results of their turbine research into the design process.

Mr. Stroh left Westinghouse to join DuPont and moved to their Beaumont, Texas plant, where he consulted on turbomachinery problems in plants throughout the Gulf coast. After five years in the field, he moved to Wilmington, Delaware to the DuPont Experimental Station where he developed his expertise in rotordynamics. Mr. Stroh spent the rest of his career with DuPont acting as a Consultant’s Consultant and provided computer simulation of equipment to aid in the troubleshooting process.

Mr. Stroh has authored and coauthored several papers on rotordynamic behavior. He earned a B.S. degree, an M.S. degree, and did three years of post graduate work in Mechanical Engineering at the University of Pennsylvania. He also has a B.A. degree (Mathematics) from Lebanon Valley College. He is a member of Tau Beta Pi.

David Ransom is presently the Manager of Parts Engineering for TurboCare, in Houston, Texas. He has been with TurboCare since the fall of 1998. He previously worked at Boeing—Rocketdyne Propulsion and Power.

Mr. Ransom has B.S. (Engineering Technology) and M.S. (Mechanical Engineering) degrees from Texas A&M University at College Station.

John K. Whalen is the Engineering Manager and President of TCE/Turbo Components and Engineering, Inc., in Houston, Texas. He spent seven years at Turbodyne Steam Turbines (Dresser-Rand) as a Product Engineer in the Large Turbine Engineering Department and as an Analytical Engineer in the Rotodynamics Group of the Advanced Engineering and Development Department.

In 1988, Mr. Whalen accepted a position with Centritech, as the Assistant Chief Engineer. In 1989, he was promoted to Manager of Engineering. In 1991, he left Centritech to help start TCE. At TCE, he is responsible for the engineering department and engineering for the product lines, which include babbitted journal and thrust bearings, labyrinth seals, and related engineering services.

Mr. Whalen received his B.S. degree (Mechanical Engineering, 1981) from the Rochester Institute of Technology. He is a member of ASME, STLE, and the Vibration Institute, and is a registered Professional Engineer in the State of Texas.