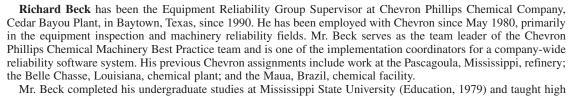
Turbomachinery Symposium Advisory Committee



Dara W. Childs has been Director of the Turbomachinery Laboratory since 1984. He holds the Leland T. Jordan Chair in Mechanical Engineering at Texas A&M University. He received his B.S. (1961) and M.S. (1962) degrees (Civil Engineering) from Oklahoma State University, and his Ph.D. (Engineering Mechanics) from the University of Texas (1968).

Dr. Childs' expertise is in the area of dynamics and vibrations, with an emphasis in the area of rotordynamics. He has conducted research and engineering projects for NASA, DOD, and private firms related to rotordynamics.

Dr. Childs is the author of numerous reviewed publications related to rotordynamics and vibrations, and author of the book, *Turbomachinery Rotordynamics*. He is currently carrying out tests on honeycomb and hole-pattern gas damper seals for a 17-member industrial consortium. He was named an ASME Fellow Member in 1990, and received ASMEs Henry R. Worthington Medal in 1991.



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.



Gampa I. Bhat 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.



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.



John B. Cary is Vice President of Advanced Reliability Technologies, LLC, in Walnut Creek, 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, Vibration Institute, and Pacific Energy Association.



Thomas J. (Tom) Cerwinske is Manager of the Asset Support Services Division at the BP Amoco Refinery, in Whiting, Indiana. His responsibilities include refinery instrumentation, electrical and machinery repair, and mobile equipment operation and maintenance training. He is also responsible for the refinery's project engineering group.

He formerly served as Manager of Maintenance Services at BP Amoco's Texas City, Texas, refinery and Manager of Maintenance and Engineering at BP Amoco's Casper, Wyoming, refinery. Other assignments included serving as Operations Superintendent of Oil Movements Control Center, Oil Movements Superintendent of Maintenance and Engineering, Rotating Equipment Consultant, and Rotating Equipment Engineer at the Texas City refinery, and Rotating Equipment Engineer at BP Amoco's general office in Chicago.

Mr. Cerwinske graduated from Iowa State University (1976) with a B.S. degree (Mechanical Engineering). He is a member of Tau Beta Pi and Pi Tau Sigma.



Clifford P. (Cliff) Cook 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.



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.



Thomas R. (Tom) Davidson 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.



Michael J. Drosjack 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.**, is a 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.



Kevin S. Eads is Manager, Process Marketing, within the Engineered Products Business Unit of Elliott Company, located in Jeannette, Pennsylvania. He has been employed by Elliott since graduation from college. He has been in his current position since 1990. His duties require managing a group of application and marketing engineers in support of turbomachinery sales of new apparatus and rerates/retrofits for the petrochemical, oil refinery, liquefied natural gas, and industrial markets worldwide. His responsibilities also include market forecasting, strategic planning, and directing research and development efforts.

Prior to his current position, he served for 10 years as an international Field Sales Engineer promoting and coordinating the sale of Elliott turbomachinery products throughout Southeast Asia, Australia, New Zealand, Western USA, and Western Canada. Other previous positions within Elliott include Project Engineer and Product Design Engineer.

Mr. Eads holds a B.S. degree (Mechanical Engineering) from West Virginia University (1977).



Erwin A. Gaskamp is a Rotating Equipment Specialist with Bechtel Inc., 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 Inc. 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 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.



Merwin W. Jones is Senior Engineering Consultant for Thermal Cycles at PEPCO 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 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.



Terryl Matthews 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.



Scott C. McQueen 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.



Arturo Merino Tapia is Director of the Processes Energetic Division of CIATEQ, a Mexican Research and Development Center, in Queretaro, Mexico. He is responsible for the modeling, drafting, 3D drawing, design, rerates, retrofits, and FEA of turbomachinery. Mr. Merino Tapia formerly served as Engineering Manager of the Mexico Turbomachinery Dresser Clark Operation. He has more than 20 years of experience with rotating equipment.

Mr. Merino Tapia has B.S. and M.S. degrees (Mechanical Engineering) from the ESIME-IPN, in Mexico. He is cofounder of the LatinAmerican Turbomachinery Congress and has authored and presented several technical papers. He is a member of the Turbomachinery Symposium Advisory Committee and Mexican Mechanical Engineers Association.



S. Paul Mohan 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.



Robert X. Perez is the Strategic Machinery Reliability Lead for the Koch Petroleum Group LP, at the Corpus Christi, Texas, Refinery. His present duties include leading the refinery's machinery condition monitoring group and serving as a staff machinery consultant. He has authored and coauthored numerous technical papers in the field of machinery reliability.

Mr. Perez is a member of the Texas A&M Turbomachinery Symposium Advisory Committee, ASME, the Vibration Institute, and is a registered Professional Engineer in the State of Texas. He graduated from Texas A&M University at College Station with a BSME degree and the University of Texas at Austin with an MSME degree.



Peter C. Rasmussen 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.



Charles R. (Charlie) Rutan 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



Fred R. Szenasi 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.



John M. Vance is Professor of Mechanical Engineering at Texas A&M University. He received his B.S. (Mechanical Engineering, 1960), M.S. (Mechanical Engineering, 1964), and Ph.D. (1967) degrees from the University of Texas.

Prior to joining Texas A&M (1978), Dr. Vance held positions at Armco Steel, Texaco Research, and Tracor, Inc., and developed a Rotordynamics Laboratory at the University of Florida. He is currently conducting research on rotordynamics, damper seals, and bearing dampers. He has published a book, *Rotordynamics of Turbomachinery* (John Wiley, 1988), and more than 50 technical articles and reports. Dr. Vance is consultant to industry and government and has held numerous summer appointments. He organized the annual short course for industry at Texas A&M on "Rotordynamics of Turbomachinery" and co-organized the biennial "Workshop on Rotordynamics Instability Problems in High Performance Turbomachinery." Dr. Vance is a member of ASME and ASEE, and is a registered Professional Engineer in the State of Texas.