Discussion Group 1
Monitoring Vibration and Other Critical Machine Conditions

Bill Marscher, P.E., is President and Technical Director of Mechanical Solutions, Inc., where he and other staff perform design, analysis, testing, and troubleshooting of pumps and miscellaneous turbomachinery. Bill has over 40 years of hands-on as well as design experience with rotating machinery in the aerospace, power, and process industries. Bill is presently one of the US representatives to the ANSI/ISO Machinery Acoustics and Vibration Standards Committee ISO TC108/52, is past Board Chair of the Society for Machinery Failure Prevention Technology (MFPT), and is past President of the Society of Tribologists & Lubrication Engineers (STLE). He is an Hydraulic Institute Standards Partner, and is a ten year veteran of the TAMU Pump Symposium Advisory Committee.

Ronald B. (Ron) Adams is Global Portfolio Manager - Petroleum, with Sulzer Pumps in Houston, TX. He works with product development on new product definition and provides global product support. He has been with Sulzer since 1991 and has held various sales, marketing, and alliance management positions. Previously, he was with Ingersoll-Rand for over 18 years in pumps and hyperpressure equipment businesses. He received his BS degree (Mechanical Engineering, 1974) from Southern Technical Institute (summa cum laude) and studied toward his MBA at Georgia State University. He is a member of the ISO 13709 / API 610 Joint Working Group, API 676, and API 685 subcommittees.

Charles R. (Charlie) Rutan is Senior Engineering Advisor, Specialty Engineering, with Lyondell Chemical Company, in Alvin, Texas. His expertise is in the field of rotating equipment, hot tapping/plugging, and special problem resolution. He has three patents and has consulted on turbomachinery, hot tapping, and plugging problems all over the world in chemical, petrochemical, power generation, and polymer facilities. Mr. Rutan received his B.S. degree (Mechanical Engineering, 1973) from Texas Tech University. He is a member of the Advisory Committee of the Turbomachinery Symposium, and has published and/or presented many articles.

Stephen R. (Steve) Locke is a Senior Consultant in DuPont Engineering Technology Rotating Machinery Group in Old Hickory, TN. He moved to corporate engineering in 1983 to consult in turbomachinery for reliability improvements, retrofits, performance analysis, and for specification and startup of new equipment. More recently, Steve has also been leading a corporate effort to identify machinery credible failure modes and appropriate steps to quantify and manage safety risk. Steve received a BS degree (Mechanical Engineering, 1972) from Purdue University and is a member of ASME. He has been active on the Turbomachinery Symposium advisory committee, authored several papers, case studies, leading discussion groups, and represents DuPont on the Texas A&M Turbomachinery Research Consortium.

Al Miller is a Senior Upgrades Engineer at Flowserve Corporation. He has served as Engineering Consultant, Manager of Engineering, Manager of Quality Assurance, Engineering Product Manager, Chief Test Engineer, and many other roles in the turbomachinery industry for over thirty years. He earned his BSME from Pennsylvania State University in 1968.
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Hans P. Weyermann is Principal Rotating Equipment Engineer in the PM&E department of ConocoPhillips
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Maki M. Onari is Manager of Turbomachinery Testing at Mechanical Solutions, Inc. (MSI), in Whippany, New
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Simon Bradshaw is the Global API Product Development Manager for ITT Goulds Pumps, in Seneca Falls NY.
His responsibilities include the design and development of new products and processes for the oil and gas
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positions of engineering and contractual responsibility. Additionally he has supported the Hydraulic Institute in
the development of pump standards and best practice guides. Mr. Bradshaw has accumulated 24 years in the
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improbable locations. He holds a BEng (Hons) degree (Mechanical Engineering) from Heriot Watt University, is
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Dag Calafell is the Chief Machinery Engineer in ExxonMobil’s Upstream segment. He has an MS from Clarkson
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Dag has served on the Texas A&M Multi-Phase Pump User’s Group Advisory Board, as discussion leader at past
Pump and Turbo symposia, and on various API Standards task forces, including Dry Gas Seals. He has been an
editor for the Society of Tribologists and Lubrication Engineers, a member of the Hydraulic Institute, the
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L. E. (Ed) Watson is a consultant with the DuPont Company in Houston, Texas. He works in the DuPont Engineering Technologies and Research Division of DuPont Engineering. His responsibilities include the specification and repair of turbomachinery and other rotating equipment, vibration and stress analysis, predictive maintenance and reliability improvement, process equipment application, and general engineering consultation on machinery and processes. Mr. Watson has been with DuPont for over 35 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 a M. S. degree from The University of Texas at Austin (both in Mechanical Engineering). He is active in the Vibration Institute and is past chairman of both the Triplex Chapter and the Houston Chapter of the Vibration Institute.

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