

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/S2, 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 ikwith Ingersoll-Rand for over 18 years in pumps and hyperpressure equipment businesses. He received his BS degree (Mechanical Engineering Technology, 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&IE department of ConocoPhillips Upstream Technology Group. He currently provides support to all aspects of turbomachinery in existing business units, as well as grass roots capital projects. He is also responsible for following the machinery related areas of corporate initiatives within the ConocoPhillips Upstream Company. Mr. Weyermann attended the College of Engineering in Brugg-Windisch, Switzerland. After receiving a B.S. degree (Mechanical Engineering), he joined Sulzer Escher Wyss Turbomachinery in Zurich, as an application/design engineer in the turbocompressor department. Prior to joining the Phillips Company, he was the supervisor of the Rotating Equipment department at Stone and Webster Engineering in Houston. Mr. Weyermann is a member of ASME, the API SOME, and has served on various API Task Forces.

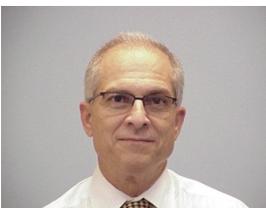
Jack Claxton is with Patterson Pump Company in Toccoa, Georgia.



Maki M. Onari is Manager of Turbomachinery Testing at Mechanical Solutions, Inc. (MSI), in Whippany, New Jersey. He is responsible for field vibration testing involving ODS and Modal analysis. His career spans more than 16 years primarily working with rotating equipment analysis and troubleshooting in the petrochemical, refinery, and power generation industries. Prior to joining MSI, Mr. Onari was a Rotating Equipment Engineer in PDVSA-Venezuela responsible for the predictive maintenance of one of the largest petrochemical complexes in Latin America. Mr. Onari received his B.S. degree (Mechanical Engineering, 1996) from the Zulia University in Venezuela. He is a member of ASME and the ISO TC108/S2 Standards Committee for Machinery Vibration.



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 industry. Prior to joining ITT Goulds, he worked for both Sulzer Pumps and Weir Pumps, where he held various 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 pump industry. He attributes this to having never exhausted the fun inherent in moving fluid between two improbable locations. He holds a BEng (Hons) degree (Mechanical Engineering) from Heriot Watt University, is a registered Chartered Engineer in the UK and a member of the Institute of Engineering Designers.



Dag Calafell is the Chief Machinery Engineer in ExxonMobil's Upstream segment. He has an MS from Clarkson University and undertook doctoral studies at Columbia. He began his career with machinery research at Exxon Research & Engineering in 1977, where he developed expertise in upstream and downstream machinery through research, projects, startups, and operations via overseas assignments and leadership opportunities. 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 Society of Reliability Engineers, the Society for Maintenance and Reliability Professionals, and ASME. Dag has published papers on machinery and flow phenomena and has been awarded two NSF grants. He holds patents in machinery sealing and flow conditioning.

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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.

Juan Gamarra is with Mechanical Solutions, Inc. in Whippany, New Jersey.
