

DISCUSSION GROUP P4/T4 GEARS



Clifford P. (Cliff) Cook retired from Chevron and is President of CVC Engineering, in Houston, Texas. He provides turbomachinery consulting services to the process industries with 42 years' experience. He is a Chevron Fellow, Emeritus, and is Chairman Emeritus and past Vice Chairman of the API Subcommittee on Mechanical Equipment and member of its Steering Committee. He is Chairman of API RP 687 and API SOME Standard Paragraphs, and past Chairman of API 613 and 677. Mr. Cook is a member of API 617, 616, 614, and past member of API 610, 684 Tutorial, and 618. He also serves on the ANSI Technical Advisory Group to ISO Technical Committee 67 Subcommittee 6. He has been a member of the Texas A&M Turbomachinery Symposium Advisory Committee since 1993. 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.



Lisa Ford is Director of Engineering for the Power Transmission Division of Lufkin Industries, Inc. She graduated from Texas A&M University, in 1982, with a BSME. Starting with Lufkin in 1982, as a gear design engineer, she has been involved in design, application engineering, management of engineering groups, and special projects. For eight years, she worked as a consultant, primarily in the gear industry. Responsibilities include management of the Lufkin PT engineering and quality assurance departments.

Greg Elliott is a Senior Project Engineer in the Power Transmission Division of Lufkin Industries in Lufkin, Texas. He works primarily in development, analysis, and design of high-speed gear drives. He also provides support when finite element analysis, fatigue analysis, vibration analysis, or other assistance is needed in machinery design or problem solving. Previous activities have included development of Lufkin's current "N-D" high-speed gear product line. Mr. Elliott earned his B.S. and M.S. in Agricultural Engineering from Texas A&M University.

Marc Hagn is a Sr. Reliability Engineer for Enterprise Products, based out of Seymour IN. He works among several mid-stream pipeline operating groups regarding major mechanical equipment reliability/troubleshooting, unit optimization, new project design and technical consultation over the past three years. Previously in his 21 year career; he has worked for such pump and mechanical seal OEM's as: Goulds Pumps, United Centrifugal, BWIP, and Flowserve in various positions of product design, field engineering, and reliability technical support. He also has end-user experience with E.I. DuPont (during which collaborated extensively with the Beech Street pump consult group on variety of corporate specifications), and with a independent Midwest pharmaceutical chemical company providing corporate-level turbomachinery specification development, leading mechanical equipment reliability/optimization efforts, and providing major project engineering support.
