Mike Cugal, Coordinator, is a Chief Hydraulic Engineer at Paco Pumps, Grundfos CBS, Inc. He provides hydraulic design expertise to product development, testing, sales, and service departments. He has worked in the pump industry since 1988 in design, research and development, testing, applications and selection, and field trouble-shooting roles. He authored several hydraulic design/CFD related papers for the ASME and other technical conferences.

Mr. Cugal received his BSME degree from California Polytechnic University at Pomona. He is a registered Professional Engineer in the State of California.

Jim Penhale, Coordinator, graduated from the University of Alberta with a B.Sc. in Mechanical Engineering. In his 18 year career, he has worked for some widely known pump OEMs including Union Pumps, Schlumberger-REDA Pumps, Sulzer Pumps, and Flowserve as an aftermarket maintenance and reliability engineer, with postings in Canada, the US, and Singapore. As well, he has given training sessions, helped set up OEM shops, and start up and commission equipment in both Russia and Indonesia.

More recently he has moved to being an end-user, with work as a rotating equipment reliability engineer in refineries and in pipeline companies. He is an accredited Professional Engineer in the province of Alberta, Canada. He is currently with Enterprise Products based in Midland, TX.

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Lanka Pannila

Terry M. Wold has been Manager of Engineering for Afton Pumps, Inc. in Houston, Texas for 20 years. He has a total of 42 years in the pump industry. In 1968, he went to work for the Oilwell Division of U.S. Steel and became involved with the Wilson-Snyder Group. He worked in the Engineering Department in Garland, Texas, until 1980 when Wilson-Snyder was transferred to Oklahoma. Mr. Wold was involved with the transfer of the manufacturing facility and setting up the engineering office there. He stayed in McAlester, Oklahoma, for 10 years before coming to Afton Pumps., Inc.

Mr. Wold received a BSME from Lamar Tech. He has published several articles in Pumps & Systems Magazine, spoken at ASME, the Pacific Energy Association, and the Vibration Institute. He is a registered Professional Engineer in the State of Texas and a member of the Hydraulic Institute.