

## DISCUSSION GROUP P9 SEALLESS PUMPS



**James (Jim) Lobach** is a Chief Development Engineer with the Chempump Division of Teikoku USA. He has had extensive experience in the design and application of high speed rotating machinery. For over twenty years he has been closely involved with canned motor pump design innovations, including low specific speed pumping, pump hydraulics and performance, and monitoring equipment. He has provided field service engineering and trouble shooting in the Chemical and Petrochemical process industries. Mr. Lobach has authored papers presented at the symposium, and received a B.S.M.E. from the University of Colorado. He is a registered Professional Engineer in the State of Colorado.



**Ronald J. Carlson** is a Machinery Reliability Engineer with Flint Hills Resources, in Corpus Christi, Texas. He has worked in the oil industry in maintenance for 18 years in various capacities including pumps, compressors, and vibration analysis. Mr. Carlson has a B.S. degree (Mechanical Engineering) from the University of Nebraska, and a B.S. and M.S. degree (Aeronautical Engineering) from Wichita State.



**Daniel W. (Dan) Wood** is a Pump Consultant with the DuPont Company, in Wilmington, Delaware. He provides pump, mechanical seal, and pumping system technical support throughout DuPont. Mr. Wood participates on committees within the Hydraulic Institute and is a voting member for 3-A Sanitary Standards for ANSI pumps. He was previously employed for 15 years in various engineering and training roles at Flowserve. Mr. Wood graduated from the University of Cincinnati (BSME, 1991). He is a Level III Vibration Analyst certified through Technical Associates of Charlotte.

**Dennis Fegan**