

**DISCUSSION GROUP P7  
ON  
SEALLESS PUMPS**

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**Ron Carlson**, Coordinator graduated from University of Nebraska with B.S.M.E, Wichita State University with a B.S. and M.S. in Aeronautical Engineering. His engineering career started at Boeing as a Computer Aided Design Engineer and later as an Aerodynamicist. He was employed by Phillips Petroleum Co. from '81 to '93 as a rotating equipment engineer specializing in pumps and vibration analysis. He is currently employed by Flint Hills Resources as a rotating equipment engineer. Additional pursuits include being an adjunct professor at TAMUCC, leader of the Process Industry Practices machinery team, and serve on API 685 and 686 task forces. Mr. Carlson has also served on the board of the Coastal Bend Vibration and Reliability Institute since 1994.

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**Daniel W. (Dan) Wood**, Coordinator, 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 Flowsolve.

Mr. Wood graduated from the University of Cincinnati (BSME, 1991). He is a Level III Vibration Analyst certified through Technical Associates of Charlotte.

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**James Lobach** is a development engineer at Chempump, a subsidiary of Teikoku.

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