



David E. Dix, P.E.
Mechanical Engineering

Mr. Dix has over seventeen years of consulting experience in the analysis, testing, and inspection of mechanical systems. He has been involved in a wide range of projects including stress analysis using finite element and classical techniques, fluid mechanics, heat transfer, accident reconstruction/failure analysis, photogrammetry, dynamic and static testing, and durability testing.

Employment

1995-present Principal, Unified Engineering, Inc.
1995 Manager of Mechanical Engineering, Packer Engineering, Inc.
1983-1995 Staff Consultant, Packer Engineering, Inc.
1982-1983 Short term missionary in Zaire, Africa Inland Mission

Education

1988 M.S. in Mechanical Engineering, University of Illinois at Chicago (Thesis: Heat Transfer From a Sphere in Natural and Forced Convection of Subcooled Freon-113)
1982 B.S. in Mechanical Engineering, John Brown University, Arkansas

Continuing education

1998 Traffic Accident Reconstruction; Northwestern University- Traffic Institute
1996 Digital Video International; Adobe
1993 The Bolted Joint; ASME
1989 Vibration Measurement and Analysis; Bruel & Kjaer

Professional Societies

American Society of Mechanical Engineers
Society of Automotive Engineers

Professional license and registration

Professional Engineer, State of Illinois, License Number 062-047674

Selected Publications

“An Experimental Study in Nucleate Boiling Heat Transfer From a Sphere”, Collected Papers in Heat Transfer, (D. Dix, J. Orozco, and H. Francisco), ASME Heat Transfer Division, Volume 104, 1988

“An Experimental Study in Nucleate Boiling Heat Transfer From a Sphere”, Journal of Heat Transfer, (D. Dix and J. Orozco), Transactions of the ASME, February 1990

“Film Boiling Heat Transfer From a Sphere in Natural and Forced Convection of Freon-113”, Journal of Experimental Heat Transfer, (D. Dix and J. Orozco), Volume 3, No. 2, 1990

“Accident Reconstruction”, presented at Association of Iron and Steel Engineers Conference on New Handling Technology for Material and Scrap, 1998