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Professional Experience

- **1998-Present.** Principle Investigator (PI) as well as facility and building manager for the Electro-Motive Diesel, Inc. H engine locomotive program, a Work-for-Others program with EMD and PI for a Caterpillar CRADA program for diesel emissions reduction at Argonne National Laboratory.
- **1991-1998.** Managed diesel engine related projects including diesel engine emissions research, American Society for Testing and Materials engine testing of lubricating oils, original equipment manufacturer performance and durability testing at AutoResearch Laboratories, Incorporated; Chicago, Illinois.
- **1979-1991.** Engineering cooperative education student program and college graduate training programs at Caterpillar Incorporated in Peoria, Illinois. Responsibilities included program coordination and communication with design, analysis and manufacturing groups.

Education

- BSAgE, Agricultural Engineering, University of Illinois, 1982

Professional License

- Registered Professional Engineer (Mechanical) – State of Illinois

Career Highlights

- Program direction, primary communication with industry sponsors, Department of Energy (DOE) sponsor communication and coordination, collaboration with the University of Wisconsin, Madison for KIVA-3 modeling efforts, and meeting Laboratory Environment, Safety and Health requirements at Argonne.
- Design and construction coordination in the Building 371 expansion of the Transportation Research Facility to facilitate multiple program use of capital investments in emissions measurement equipment.
- Extensive diesel engine fuel injection system experience for truck and large stationary engines.
- Lead engineer in the test and development of a hydraulically actuated, electronically controlled unit injector for light truck diesel engine application.

Professional Society Activities

- Active participation in SAE
- Served as the company representative on technical society committees while employed by AutoResearch Laboratories, Incorporated

Publications & Patents

- Publications: Four technical papers in SAE and ASME conferences
- Patents: Two in the field of diesel engine fuel injection systems