

JAMES A. PETERSEN, P.E.

EDUCATION

Bachelor of Science in Mechanical Engineering
University of Nebraska at Lincoln
Bachelor of Science in Mathematics
Kearney State College, Nebraska

REGISTRATION/MEMBERSHIPS

Professional Engineering Certificates;
Mechanical Engineering, Iowa - 10183
Mechanical Engineering, Texas – 83989
US DOT CT-8076 (Design Certifying Engineer for MC330 & MC331 transports)

Affiliations:

American Society of Mechanical Engineers
National Propane Gas Association
National Fire Protection Association
National Society of Professional Engineers
Texas Society of Professional Engineers
International Association of Arson Investigators
National Academy of Forensic Engineers
ASTM Committee F17 on Plastic Piping Systems
ASTM Committee E30 on Forensic Sciences

CAREER HISTORY

PETERSEN ENGINEERING - A business of forensic engineering; consulting, accident investigation and expert witness work in matters involving fuel gases such as propane and natural gas. Member on NPGA T&S, to write standards and bulletins.

SMITH-BLAIR, INC. - Engineering Manager - Managed Product Engineering, Manufacturing Engineering and Quality Assurance. Engineering department activities included development and maintenance of clamp & coupling products for water works applications as well as large water meters. Quality Assurance group serviced manufacturing facility utilizing welding, fabrication, machining, assembly and testing.

SHERWOOD, DIVISION OF HARSCO CORPORATION - Manager, Technical Services - Liaison to counsel in products liability litigation. Managed Technical Services Group, providing assistance to Engineering, Marketing and production. Served on NPGA T&S and Safety Committees to write standards and bulletins.

ENGINEERED CONTROLS INT'L., INC. - Engineering Manager - Department Activities included development and maintenance of valve and regulator product lines for LP-Gas, ammonia and other compressed gases. Served on national committees (CGA, ANSI and NPGA) to review industry standards. Awarded patent 5,215,117 for double check filler valve for European market. Taught session on LP-Gas regulators for Railroad Commission of Texas LP-Gas Division.

REGO COMPANY - Engineering Manager - Department Activities included development and maintenance of valve and regulator product lines for LP-Gas, ammonia and other compressed gases. Served on national committees (CGA, ANSI and NPGA) to review industry standards. Awarded patent 4,860,784 for sealing mechanism for non-rising stem valves.

CRANE COMPANY (Valve Division) - Project Manager, Special Projects . Set up small operation to modify company products to customer applications. Closed manufacturing operation - moved inventory and equipment to new location.

Manager, Quality Control - A manufacturing facility for casting and machining gray and ductile iron valves. Worked to get foundry qualified to Ford's Q-1 program.

Chief Engineer, Iron & Steel Valves - Managed a group of six engineering personnel in the development of industrial valves - gate, globe and check. Product development encompassed interpreting specifications to development, release to manufacture and modification to manufacturing processes.

Senior Engineer, Iron & Steel Valves - Maintaining product lines, reviewing product change requests for design suitability and editing and maintaining *Flow of Fluids, TP-410*, (an industry standard of fluid calculations). Other responsibilities included application engineering support to sales and preparation of design analysis for customer review regarding suitability of valves in seismic applications.

FISHER CONTROLS COMPANY - Project Engineer, Design - Lead engineer on product development projects for control valves and actuators manufactured to ANSI B16.34 and ASME B&PV Code - Sections III and VIII. Work included specification review, time estimates, scheduling, formulation of basic designs, finished design review, verification and coordinating development with Manufacturing Engineering. Other responsibilities included teaching at customer schools, on-campus interviewing of engineering candidates and on-going product updates.

Project Engineer, Manufacturing Engineering - Responsible for the specification and installation of machine tools for in-house use. Maintenance of procedures and controls for manufacturing processes. Design and engineering of a six axis, numerically controlled drill.