

## Curriculum Vitae

### Paul R. Ostand, BSME, PE

**Professional Qualifications:** Registered Professional Engineer, Ohio, Pennsylvania and West Virginia; Member ASME and ISA; Patentee in field (9 US patents, 1 UK); extensive experience in designing valves for major manufacturers. These products were used in chemical, pharmaceutical, fuel dispensing and transport, and food manufacturing using industrial codes from ASME, ISA, API and ANSI. Design and development of machinery, including asphalt plants, conveyors and bins, asphalt paving machines, asphalt distributors, storage tanks and similar machinery.

#### **Accomplishments:**

Served as an expert witness in valve related product liability issues resulting in loss of life and property damage.

Developed the following new products:

- Very low pressure regulating valves, and tank venting valves
- Inline Check Valves
- Special ball valve for gaging applications
- Sanitary control and regulating valves
- Control valve for low flow applications
- Globe style high and medium pressure and back pressure regulating valves
- Special control valve for boiler burner service
- Valves and systems for venting and loading fuels into cargo tanks
- Top loading vapor recovery loaders
- Aircraft underwing fueling nozzle
- Valve for the detection of liquid in a vapor line
- Fiber optic liquid level detection

Product Improvements and Support:

- Sales technical support including developing sales literature
- Implementation of an inspection department
- Implementation of in-house educational programs in blueprint reading and metrology
- Design of an engineering development lab on a low budget
- Implementation of a computerized bill of material system
- Standardization of a products reducing inventory
- Design of electronic instrumentation for the engineering lab
- Support in obtaining approval from ASME for the manufacture of pressure relief valves
- Wrote computer programs to perform various engineering design equations
- Several technical articles published

**Computer Skills:**

- AutoCAD Microsoft Word, Excel, Publisher, Power Point
- Open Office
- Various others including HTML and Photoshop.

**Education:** BSME, University of Cincinnati

**Experience:****2002- present**

Consulting Engineer. Charleston, WV serving various industries providing mechanical engineering and expert witness services.

**1995 – 2002**

Director of Engineering, Fisher-ACE (formerly Appalachian Controls Environmental), So. Charleston, WV. I created engineering capability and designed, patented and put into production an entire new line of tank blanketing valves that had not existed previously. These (3) were all patented.

**1981- 1995**

Senior Project Engineer, Richards Industries (Jordan Valve), Cincinnati, Ohio. Conceptual design of industrial valves including pressure regulating, temperature regulating, pressure relief, sanitary and control valves. Some of these products received patents.

**1967-1981**

Project Engineer, Product Development, at Dover Corp., OPW division, Cincinnati, Ohio. I was responsible for the development of new fluid handling equipment, primarily for hazardous fluids. In the course of these duties I worked with draftsmen; technicians, customers and sales to determine market needs and product performance. Some of these products received patents. I also served, successfully, as an expert witness for Texaco (a customer).

**Prior**

Design Engineer with Littleford Bros., Inc, Cincinnati, Ohio a manufacturer of road construction equipment.

Engineering Assistant with General Electric Large Jet Engine Division, Evendale, OH.