

**Peter R Johnston, PE.**  
Consultant in Fluid Filtration  
302 Morningside Dr, Carrboro, NC 27510  
phone/fax: 919 942 9092, E-mail: ddandp3@aol.com

## **Background**

### **Author** of

- *Fluid Sterilization by Filtration*, 3rd edn. 2004, CRC Press
- *Fundamentals of Fluid Filtration*, 2nd edn, 1998. Tall Oaks Publishing Co.
- *Survey of Test Methods in Fluid Filtration*, 1995, Gulf Publishing Co.
- At least 40 papers in various journals, still writing.

**Fellow of ASTM.** For 15 years, chaired a filtration committee writing 15 test methods. Led formation of a symposium leading to papers published, in 1986, as ASTM Special Technical Publication 975. Edited that volume.

**Technical Writer** for *Filtration News*.

**Review papers** for different journals

**Professional Engineer's** licenses in North Carolina, Indiana, and Wisconsin

**Designed and operated** chemical process pilot for four different companies

**Patents** in hydrogen peroxide, polymer chemistry and electrochemistry.

**Education:** Miami Univ. (Ohio). BA, 1948, while meeting requirements for BS in Chemistry. Sat for Professional Engineer's test in 1979

## **Employment History**

**1992-present:** *Independent Consultant*, serving a wide variety of clients.

**1980-1992:** *Sr. Project Engineer, Ametek, Inc*, Sheboygan, Wis. Conceived a new process of producing a fluid-filter cartridge, a thick-walled tube of resin-bonded cellulose. Demonstrated the process in the lab. Designed and operated the pilot plant. and the commercial plant. Designed a resin-bounded charcoal cartridge

**1978-1980.** *Manager, Product Testing. Gelman Sciences*, Ann Arbor, Mich. Led a 5-person team building membrane filter cartridges. Brought new insight into membrane filtration via published papers and talks.

**1972-1978:** *Sr. Development Engineer, Commercial Filters*, Lebanon, Ind. First job in filtration, developed filter cartridges, published first papers in filtration.

**1967-1971.** *Research chemist, Kimberly-Clark Corp.*, Nennah, Wis. Designed a commercial-size, gas-diffusion electrode and novel electrochemical cell for producing hydrogen peroxide. Operated a battery of such cells to demonstrate the process. Patent on cell design. Investigated a new wood-pulping process.

**1960-1967:** *Research Chemist, Chemstrand Research Center*, Durham, N.C. Produced bucket-volume quantities of monomers suitable for polymerization. Patent, and papers on the polymerization of tetrahydrofuran. Designed and operated pilot plant for producing polyester fiber directly from terephthalic acid. Helped design and start up commercial plant.

**1953-1960.** *Research Chemist, PPG Industries*, Corpus Christi, Texas. In micro-pilot-plant operations, studied *each* of the units operations in manufacturing hydrogen peroxide by the anthraquinone process. Three patents. Helped design pilot plant. Helped startup commercial plant.

**1951-1953.** *1st Lt. Chemical Corps, U.S. Army.* In Japan, executive office of a chemical decontamination company. In Korea, commanded the 48-man, smoke generator platoon supporting combat along the IX Corps (central) Front. In 2006, *Military History* published my illustrated account of the Battle of Triangle Hill (Operation Showdown)