

## **Filtration Needs – The Future**

E. S. Peterson

Idaho National Laboratory, Battelle Energy Alliance LLC

P.O. Box 1625, Idaho Falls, ID 83415-2208, USA

### **ABSTRACT**

The filtration industry continues to expand the limits of technologies that efficiently isolate fine particles and gases. As this development of new products has accelerated, industry has maintained a parallel course of intellectual property protection. By focusing on these new technologies and patents, many customers have ignored established technologies and failed to consider their many positive attributes. This paper will explore several areas of need within the filtration/separations industry. Beginning with the most obvious – highly selective systems, be they woven or non-woven followed by a discussion of the various media types. Finally we will spend a few minutes discussing the environments and the expected process applications for the filtration systems that are available today as well as provide a glimpse of tomorrow's new developments from both fundamental work that is supported by the science-based agencies and ongoing industrial development work.