



## ***Introduction to Air/Gas Filtration II***

**Instructor: Dr. Thad Ptak**

**Course: 1:00 pm – 5:00 pm, .4 CEUs**

This course is to introduce the basics of air/gas filtration. It provides fundamental information on air filtration principles, filter media and filters, applications, and testing. To meet audience interests, this course is divided into four parts (I – IV). It is recommended to take all parts; however, they can be taken independently.

**Learning Objectives – After taking Part I of Introduction to Air/Gas Filtration, the learner will understand:**

- Commercial and residential HVAC
- Portable air cleaners
- Selected industrial applications
- Face masks
- Principles of filter testing
- Instruments and testers
- Test standards

**Part II Outline:**

- Chapter 1 – Industrial applications and equipment
- Chapter 2 – Applications related to IAQ
- Chapter 3 – Respirator protection
- Chapter 4 – Introduction to testing and statistics
- Chapter 5 – Instruments for measuring filtration characteristics
- Chapter 6 - Automated testers
- Chapter 7 – Test Standards

## Who Should Attend:

This course is designed for people who are new to the filtration industry either in technical, sales, or business functions. It is also very good for those who have been in this industry for a while to get a better understanding of how fundamentals can be used for practical applications.

## Instructor:



**Dr. Thad Ptak** has over 30 years of experience in filtration technologies, aerosol science, and indoor air quality. He has conducted extensive research in the areas of development of filter media and filters, portable air cleaners, indoor air quality, sensors for IAQ, and instrumentation for particle generation and measurement. Currently, Thad has his own consulting company specializing in providing solutions in the areas described above. He was involved in the research, development, and manufacturing of products and technologies in consumer products, HVAC, portable air cleaner, and automotive filtration applications for several different organizations including AO Smith, Columbus Industries, StrionAir, ArvinMeritor, and others. Dr. Ptak has presented more than 50 technical papers related to the particle technology and filtration field, chaired and organized several sessions, and co-chaired a filtration conference. He actively participates in technical societies and numerous standard committees. Dr. Ptak won the Wells Shoemaker Award for leadership and service to the filtration industry and Fellow Member Award for sustained significant contributions to filtration technologies and filtration industry.