



**FREE FREE FREE FREE FREE FREE FREE**

**Differences in Scent Discrimination  
Between Dogs, Man and Instruments**

**Sunday, November 11, 1:00 PM to 4:00 PM  
For Teachers Only (no registration fee)  
(You are asked to pre-register by e-mail so that  
we plan the correct room size and refreshments.)**

The Eastern Analytical Symposium is offering a seminar designed especially for middle and high school teachers, who have general interests in forensic science, hope to enrich other science courses, or to develop course materials in this area. Organized by Jim Stuart, this seminar is designed to give middle and high school teachers' information on the differences in modes and detection levels as to how dogs, humans and instruments detect odors. The biology of odor perception as well as case studies for the detection of drugs, forensic and security issues will be presented by a panel of distinguished scientist and representative from instrumentation companies. At the start there will be a brief K9 Demonstration by N.J. State Police, Canine Unit.

The seminar is being held at the Garden State Exposition Center Complex in Somerset NJ. **There is no charge for teachers.** To reserve your place, contact Janet Cunningham at [askEAS@aol.com](mailto:askEAS@aol.com). Any questions may be directed to Dr. Jim Stuart at [James.Stuart@uconn.edu](mailto:James.Stuart@uconn.edu) (or by reaching him through his cell phone 860-214-1478).

In addition, EAS offers three day-long seminars free for students, aimed at high school and undergraduate college students. Each program runs from 10AM to 3:30 PM and includes an opportunity to visit the exposition of laboratory equipment. **Students are admitted without charge, and a box lunch is also included.** These seminars are:

- ❖ **Developing and Marketing Pharmaceuticals**, Monday, November 12
- ❖ **Analytical Chemistry and Forensic Science**, Tuesday, November 13
- ❖ **Analytical Chemists in Industry: What Does an Analytical Chemist Do?**  
Wednesday, November 14

For a full description of these programs, visit the EAS web site [www.eas.org](http://www.eas.org), under **Education** then **Seminars**. Further information about the EAS, the equipment exposition, the technical talks, and many other programs offered can also be found there.

**Please pass this notice on to others who may be interested.**

**WWW.EAS.ORG**

# **2007 EAS Seminars**

*November 11 – 14, 2007 in Somerset, New Jersey*

Visit our web site for more information as it becomes available, [www.eas.org](http://www.eas.org)

## **Differences in Scent Discrimination between Dogs, Man and Instruments A Seminar for Middle and High School Teachers**

**Sunday, November 11**

**For Teachers Only (no registration fee)**

**1:00 PM to 4:00 PM**

Organized by J. D. Stuart, this seminar is designed to give middle and high school teachers' information on the differences in modes and detection levels as to how dogs, humans and instruments detect odors. The biology of odor perception as well as case studies for the detection of drugs, forensic and security issues will be presented by a panel of distinguished scientist and representative from instrumentation companies.

K9 Demonstration by N.J. State Police, Canine Unit.

Dr. John N. Labows, Fragrance Technology Consultant, Former Director of Fragrance Technology at Colgate-Palmolive and Associate Member of the Monell Chemical Senses Center, Talk Title: "Olfactory Messages- What the Nose Knows".

Dr. Kenneth G. Furton, International Forensic Research Institute, Dept. of Chemistry and Biochemistry, Florida International University, Talk Title "Current Capabilities of Machines, Man and Man's Best Friend- Locating accelerants, biotoxins, currency, drugs, explosives and flesh".

Dr. Harold McNair, Department of Chemistry, Virginia Tech, Talk Title: "Sniffing Bombs- Dogs, Gas Chromatography and Mass Spectroscopy".

Mr. Philippe Mottay, General Manager, Brechbuehler, Inc., Houston, TX, manufacturer of the "Sniffer" Instrument, Talk Title: "GC-Olfactometry Interfacing Analytical Instrumentation and Human Perception.

Dr. Vincent Schmitt, Alpha MOS America, Inc., Hanover, MD, manufacturer of the "Electronic Nose & Tongue", Talk Title: Overview of Electronic Nose & Tongue Technologies for Flavor/Taste Analyses".

## **Developing and Marketing Pharmaceuticals**

**Monday, November 12**

**For Teachers and Students (no registration fee + free admission to the exposition )**

**10:00 AM to 3:30 PM**

This seminar, organized by Jennifer Giordano and Pauline Leary, is designed to demonstrate the use and importance of instrumental techniques in the drug development process and in post market support. Topics discussed will help participants understand the wide variety of analytical disciplines put to use in the pharmaceutical industry.

## **Analytical Chemistry and Forensic Science**

**Tuesday, November 13**

**For Teachers and Students (no registration fee + free admission to the exposition)**

**10:00 AM to 3:30 PM**

In this seminar, organized by Richard Saferstein, several speakers will discuss a variety of analytical technologies that are applicable to solving forensic science problems. Attendees will be introduced to the science of forensic toxicology and will learn the strategies that forensic toxicologists employ to detect poisons and drugs in the human body. Another presentation will review significant achievements that have been made in utilizing DNA typing for the purposes of linking biological evidence to a single individual. In this new century, the science of DNA profiling has altered the complexion of criminal investigation. A number of actual case discussions will be included in the talk in order to exemplify the relevancy of forensic DNA typing to criminal investigation. Finally, we will present an overview of how forensic analysts make use of minute particles recovered from crime scenes (such as bits of paint fiber, or plastic) to aid police investigators in their crime-solving efforts.

## **Analytical Chemists in Industry: What Does an Analytical Chemist Do?**

**Wednesday, November 14**

**For Teachers and Students (no registration fee + free admission to the exposition)**

**10:00 AM to 3:30 PM**

This seminar, organized by P&G, is intended primarily for undergraduate students, to educate them about careers in analytical chemistry in industry. Graduate students and high school teachers may also find it worthwhile. Some of the different roles an analytical chemist may fill in industry are examined: scientific consultant, methods developer, and problem solver. Significant time is spent on exploring the process of solving problems. Actual real world problems are proposed, and students learn a 'framework' for approaching and solving these problems. Time will be available for questions about the topics discussed, and other related questions from the students. Additional information is available at [www.pg.com/science/prof\\_chemists.jhtml](http://www.pg.com/science/prof_chemists.jhtml).