MASS SPECTROMETRY DISCUSSION GROUP

Manufacturer's Night and Poster Session

Wednesday, 18 June 2008
Pittsburgh Athletic Association
(Across Fifth Ave from the Cathedral of Learning.)
4215 Fifth Ave., Pittsburgh, PA
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PROGRAM: Sponsored by the Spectroscopy Society of Pittsburgh

3:30 PM **Manufacturer's Booths and Poster Social with Drinks**

6:00 PM **Complimentary Dinner**

7:00 PM **Speaker: Dr. Herbert H. Hill,** Professor of Chemistry
Department of Chemistry, Washington State University

The Basics of Ion Mobility Mass Spectrometry

When ion mobility measurements are made simultaneously with mass measurements, value-added information improves the analytical utility of mass spectrometry: mobility filtering provides cleaner mass spectra; signal-to-noise levels are increased by expanding random noise into mobility space; separation capacity of any mass spectrometer is improved by about an order of magnitude; compound class identification is aided by obtaining ion-density information; ion structure identification and charge location is possible by modeling mobility; and, isomer separations, including enantiomers and conformers, are possible. From proteomics to metabolomics, from security to structure theory, and from environment to industry, applications of ion mobility mass spectrometry (IMMS) have generated considerable interest over the past few years. Currently several types of ion mobility mass spectrometers are available commercially and many others are used in research laboratories. This presentation will discuss the basic concepts behind ion mobility spectrometry, its coupling to mass spectrometry and the advantages of the various types of IMMS instruments available today.

Complimentary Parking behind the PAA with token provided at dinner.

MUST RSVP to register & for Complimentary Dinner to:

dsipe@andrew.cmu.edu, 412-268-7548 by June 16th.
Tell Dave if you plan to bring a poster.

Contact M. Bier (Chair) mbier@andrew.cmu.edu with any additional questions.

SEE: SSP-MSDG at http://chemed.chem.pitt.edu/ssp-msdg