

Interpretation of Mass Spectra

Including those from Electrospray and MALDI

Presented by

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A \$500 value!

Sponsored by:



**Mass Spectrometry
Discussion
Group of Pittsburgh**



Thursday, 7 April 2005

Holiday Inn Select University Center (Oakland)
Schenley Ball Room
100 Lytton Ave., Pittsburgh

FEE: \$10.00 Includes Lunch and Parking (Park in the Holiday Inn Garage.)
Course fee will be refunded to students with ID on the day of the course.
8:30 AM Registration with coffee // 9:00 AM to 3:30 PM Lectures & Lunch

Course Content:

- The main focus will be data interpretation, regardless of ionization type
 - a. Molecular ions vs. protonated molecules and adduct ions
 - b. Multiplicity of isotope peaks and elemental composition of ions
 - c. Appearance of mass spectra at low (<500) and high (>3000) m/z
 - d. Fragmentation patterns in EI
- Operating principles of Quadrupole, Ion Trap, TOF mass spectrometers
- MS/MS with collisionally activated dissociation and example applications
- ESI: the process, and a few applications
- MALDI: the process, and a few applications

Based in part on notes as prepared by Watson, Sparkman, and Klink and Copyrighted by the **ACS**.

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

Pre-Registration Form

Interpretation of Mass Spectra

RSVP: to **manny@pitt.edu** 412-624-6862 (W) by April 4th, 2005

Send check to: Dr. Manny Schreiber, 1940 Wightman St., Pittsburgh, PA 15217

Name _____ Phone _____

Address _____ City _____ State _____ Zip _____