



**Electron Transfer Dissociation:
Rendering Invisible Portions of Proteomes Visible**

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This seminar will present the basic principles of ETD and related ion/ion techniques. It will also describe how linear ion trap based instrumentation (stand alone and hybrid) is uniquely suited to performing ETD. The applications of ETD will be surveyed illustrating how ETD allows analysis of previously intractable ("invisible") classes of peptides such as highly basic peptides, peptides with labile post-translational modifications (phosphorylation, O-sulfonation, glycosylation) , non-tryptic peptides, and very large peptides thus rendering them "visible" to the proteomics researcher.