

## 1995 ASMS Award for a Distinguished Contribution to Mass Spectrometry



**Keith R. Jennings**  
*University of Warwick, Coventry, England*  
**For the discovery and application of  
 Collision-Induced Dissociation**

The ASMS Award for a Distinguished Contribution in Mass Spectrometry recognizes a focused, singular achievement that significantly changes the practice of mass spectrometry. The 1995 Award will be presented to Professor Keith R. Jennings of the University of Warwick, Coventry, England, on May 24, at this Conference. Prof. Jennings is acknowledged for his pioneering research that led to the discovery of collision-induced dissociation (CID),

which was published in *Int. J. Mass Spectrom. Ion Physics*, 1968, 1, 227.

Prof. Jennings' research on metastable ions and their decompositions provided fundamental information on these phenomena and new methods by which double-focusing and later tandem mass spectrometers could be scanned for these studies. The techniques provided extensive insights into the energetics of ion fragmentation. These interests led to his study and delineation of the process in which a selected ion is collided with a gas, causing activation and subsequent fragmentation.

The technique, collision-induced dissociation or CID (sometimes called collisionally-activated decomposition or CAD) has had tremendous impact. CID forms the basis of most tandem mass spectrometric (MS/MS) experiments and has been the primary tool for ion structure characterization. His research truly revolutionized mass spectrometry and allowed for the application of mass spectrometry to mixture and molecular structure analyses in numerous fields, including polymer science, natural products, drug metabolism, environmental analyses and biochemistry.

This is the sixth ASMS Award for a Distinguished Contribution. The recipient will receive a \$3,000 cash award and a recognition plaque. The presentation of this award will be made at this Conference on Wednesday morning, and will be followed by a lecture by Prof. Jennings.

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### *Previous Award Recipients*

1990	Ronald D. MacFarlane	Plasma desorption ionization
1991	Michael Barber	Fast-atom bombardment ionization
1992	John B. Fenn	Electrospray ionization
1993	Christie G. Enke & Richard A. Yost	Triple quadrupole mass spectrometer
1994	Donald F. Hunt	Negative ion chemical ionization

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## The 1995 RESEARCH AWARDS

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