

The Amy-Mellon Lecture recognizes two individuals whose vision has contributed significantly to the success and growth of the science of analytical chemistry at Purdue University and throughout the world. Jon Amy and Guy Mellon have both made particular contributions to the development of instrumentation as a focal point for modern chemistry.

Melvin Guy Mellon was born in 1893 in Conneaut Lake, Pennsylvania, and was graduated from Allegheny College. He served on the Purdue faculty from the time his Ph.D. graduation from Ohio State University until his retirement in 1962. He then spent an active retirement planning and supervising the construction of the East Chemistry building, and writing, especially on the chemical literature. Among many other awards, Prof. Mellon was awarded honorary doctorates from Allegheny College, Mount Union College, and Purdue University. He passed away in 1993.

Jonathon W. Amy grew up in Delaware, Ohio where his father was Head of the English Department at Ohio Wesleyan University. He spent the war years in the Mediterranean and the Far East acquiring a taste for sailing and for electronics. He took a Ph.D. at Purdue University working on spectroscopy with Walter Edgell in 1955 and stayed to direct the department's Instrumentation Facility. Prof. Amy has worked with manufacturers such as Fisher, Aerograph, Varian, Hewlett-Packard, Perkin-Elmer, Galileo, IBM, and Thermo Finnigan in perfecting instrumentation. He has made contributions to mass spectrometry, electron spectroscopy, chromatography, and nuclear magnetic resonance. He has been a problem solver par excellence, whether the problem was one of local fire service or the future direction of scientific research in the U.S. Prof. Amy has been recognized by the American Chemical Society through its Chemical Instrumentation Award as well as locally through the George Award for outstanding service to the community.

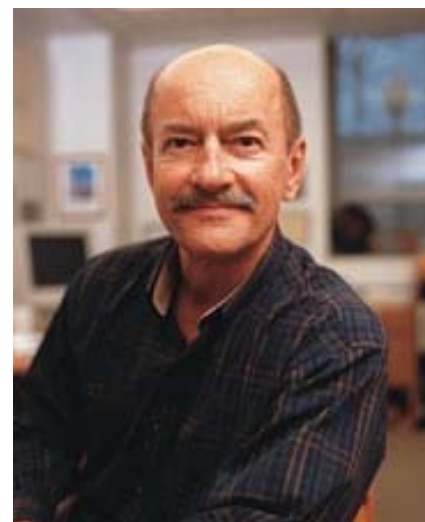
The Amy-Mellon lectureship was established by the analytical faculty to assist their students in perceiving the origins of their subject through personal encounters with some of its pioneers.

#### Previous Amy Mellon Lecturers

1984 Izaak Maurits Kolthoff	1993 Donald F. Hunt	2003 James Anderson
1985 Herbert August Laitinen	1994 Peter T Kissinger	2004 Fred Lytle
1995 Janet Osteryoung	1995 Janet Osteryoung	2005 Richard DiMarchi
1986 Lockart Burgess Rogers	1996 Joseph F. Keithley	2006 Andy Ewing
1987 T.Z. Chu	1997 Alexander Pines	
1988 John Beynon	1998 Henry Freiser	
1989 Nicholas Winograd	1999 Jonathan Amy	
1990 Richard Zare	2000 Allen J. Bard	
1991 William E. Heineman	2001 Elaine Herron	
1992 Leroy Hood	2002 Harry L. Pardue	

# *The Twenty-fourth Amy-Mellon Lecture in Analytical Chemistry*

**September 18, 2007**



*Gary Hieftje*  
*Indiana University*

**Analytical Division  
Department of Chemistry  
Purdue University  
West Lafayette, IN 47907**

Amy-Mellon Lecture in Analytical Chemistry

*Gary Hieftje*

“Instrumentation: The Enabling Science”

September 18, 2007

Wetherill Chemistry Building  
Room 320  
3:30 p.m.

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Gary M. Hieftje is Distinguished Professor and Mann Chair of Chemistry at Indiana University in Bloomington, Indiana. His research interests include the investigation of basic mechanisms in atomic emission, absorption, fluorescence and mass spectrometric analysis, and the development of instrumentation and techniques for atomic methods of analysis. He is interested also in the on-line computer control of chemical instrumentation and experiments, the use of time-resolved luminescence processes for analysis, the application of information theory to analytical chemistry, analytical mass spectrometry, near-infrared reflectance analysis, and the use of stochastic processes to extract basic and kinetic chemical information. He has won numerous awards in the fields of analytical chemistry and spectroscopy, has held major offices in several scientific societies, and has served on the editorial boards of many major journals. He is the author of roughly 500 publications, 10 books, and 15 patents. More than 60 students have received doctorates under his direction.