

Course Instructors:

Dr. Fred G. Smith, CETAC Technologies

Dr. Smith received his B.S. in Chemistry from Carroll College, WI and his Ph.D. in Analytical Chemistry from Iowa State University under the direction of Dr. Sam Houk. His particular interests include techniques for trace element pre-concentration/matrix elimination for plasma spectroscopy. He also provides technical support for various CETAC products.



Robert B. Myers, a B.S. Chemist from Carnegie Mellon University, attended graduate school in the field of emission spectroscopy under the direction of Prof. V. A. Fassel, Iowa State University at Ames, Iowa. For almost forty years, he has been involved with atomic emission spectrometry. Mr. Myers has worked in various capacities for Jarrell-Ash (now a Thermo Fisher company), Leeman Labs, and Jobin Yvon, before forming his own consulting company in the early 1990's. Most recently, he was the General Manager of CETAC Technologies. Mr. Myers has traveled, both domestically and internationally, and has been actively involved in the sales and marketing, as well as the presentation of technical seminars, for emission products in over 50 countries. He lectured on ICP Spectroscopy at the Modern Industrial Spectroscopy course at Arizona State University for 17 years, provided an ICP workshop at the annual FACSS meeting, and has conducted a short course on ICPs at the Pittsburgh Conference for the last six years.



Course Dates:

September 17-20, 2007

October 29-November 1, 2007

April 21-24, 2008

These courses have been specifically designed to satisfy the continuing education requirements of quality programs such as the ISO 9000 programs and to appeal to personnel with varying backgrounds.

Course 201 Introduction to Inductively Coupled Plasma Atomic Emission Spectrometry and Laboratory Session

The course will include the concept of ICP-AES spectrometry from the physical nature of the source through the various components of the instrumentation. Other topics will include calibration, background correction, interelement effects, and performance enhancers. The laboratory session will emphasize hardware components and performance parameters.

Course 301 Introduction to Inductively Coupled Plasma Mass Spectrometry and Laboratory Session

The components that comprise an ICP-MS instrument will be described with particular detail for those items that are not in common with ICP-AES systems. Topics such as interferences, data acquisition, sample preparation, and accessories will be discussed. Laboratory demonstrations will be used to demonstrate various aspects of ICP-MS spectrometry.



Course Requirements:

Because the education and training of the ICP or ICP-MS operator varies so much in today's laboratories, CETAC Technologies is offering three four-day lecture and laboratory series in 2007-early 2008. Each course is a prerequisite for subsequent courses and, therefore, should be attended sequentially. However, an attendee may take the next sequential course within one year of attending the prerequisite course.

Course Fees:

Course 201 Introduction to ICP-AES & Lab
\$900, 1.6 CEUs

Course 301 Introduction to ICP-MS & Lab
\$900, 1.6 CEUs

*A \$100 course fee discount may be deducted for all additional attendees from the same organization.

Note: To hold your enrollment in the series you plan to attend, payment must be received as follows:

September series—by Aug. 1, 2007

October series—by Sept. 1, 2007

April series – by March 1, 2008

Refund Policy:

100% refund if registrant cancels 10 working days prior to the course; 25% cancellation fee incurred thereafter. Registrants who fail to attend without notifying the administrator are liable for the entire fee. Substitutions are permissible at any time.

Accreditation:

CETAC Technologies is an authorized CEU sponsor of the International Association for Continuing Education and Training (IACET) and is approved to award Continuing Education Units (CEUs) for these courses.

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Assistance:

If you would like to register, or if you have any questions regarding the course, contact:
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**ICP/ICP-MS
CONTINUING
EDUCATION
SERIES**

Who should attend?

Laboratory Managers

Quality Managers

Instrument Operators

Laboratory Technicians