1971 Institute on Advanced Gas Chromatography
Washington University, St. Louis, Missouri

The 1971 Institute on Advanced Gas Chromatography will be held June 6–12, 1971, at Washington University, St. Louis. The institute will concentrate on Advanced Practical aspects of these topics:

1. High Resolution Gas Chromatography
2. Identification of CG Peaks
3. Combined Gas Chromatography/MaSS Spectrometry

These topics will be covered in three consecutive seminars conducted by leading contributors to the current state-of-the-art in GC. These seminars will provide intimate exchange of practical up-to-date information among the participants and seminar leaders. The seminars are integrated with one another in such a way as to provide uninterrupted, nonoverlapping treatment of the major GC topics, yet are designed to be self-contained so that the experienced practitioner can profitably enroll in only one or two seminars. Enrollment in two or three seminars is encouraged as it is comprehensive, yet economical in terms of travel and other expenses.

High Resolution Gas Chromatography

Seminars will familiarize participants with the principles and experimental details of HRGC, dealing mainly with the problems of resolution of complex mixtures, and the relative merits of various HRGC columns outlined, theoretical tabular and packed columns, preparation and performance of various HR columns. Approaches for resolution of the complex mixtures encountered in the flavor, petroleum, biomedical and other fields. Lecturers; L. S. Ettre, John Wiley; R. P. W. Scott, Hoffmann LaRoche; R. L. Levy, McDonnell Douglas Corp; A. Zlatkis, University of Houston.

Identification of Gas Chromatography Peaks

Seminars will cover the most advanced techniques for identification of GC peaks, and the criteria for selection of suitable approaches for individual ease, with emphasis on complex mixtures. It will cover methods based on the Gas Chromatograph; written data, dual channel detection, selective detection, pre-column and post-column reactions, standard elution and use of limited size selectivity. Auxiliary methods: GCMS, GC/IR micro friction columns, GC/TLC, GC/pyrolysis/GC. Lecturers: W. McFadden, University of California, Berkely; D. Craven, Tracor Transom Company; R. L. Levy, McDonnell Douglas; R. E. Lundin, USDA Western Regional Laboratories; S. Preston, Technical Abstracts; R. P. W. Scott, Hoffmann LaRoche; L. S. Ettre, John Wiley Company.

Combined GC/MS, June 10, 11, 12

During the past decade GC/MS has become one of the most powerful tools of the researcher. This course presents a current state-of-the-art essay of the principles and practice of GC/MS. Coverage includes special aspects of Gas Chromatography in GC/MS, interfacing GC and MS, special aspects of mass spectrometry in GC/MS, and acquisition and processing of GC/MS data. Lecturers; J. T. Watson, Vanderbilt University; W. McFadden, University of California, Berkeley; M. A. Grayson, McDonnell Douglas; R. L. Levy, McDonnell Douglas; C. J. Wolf, McDonnell Douglas.

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