

Computer Symposium

"Tells How"

at AOCS-ISF World Congress

Improved efficiency, greater accuracy, faster reporting and greater utilization of equipment are the dividends paid to computer users. Those attending the AOCS-ISF World Congress will have the opportunity to be brought up to date on computer systems and applications by the Symposium, "Computer Systems and Applications in the Oil and Fat Industry."

Supplementing the list of distinguished speakers (see July issue of JAOCS for papers and abstracts) there will be exhibits of computers at work in the Exposition area. Further, individual or small group sessions on specific problems or applications may be arranged by contacting the symposium chairman in advance. Those interested in this aspect should briefly describe the nature of their questions and applications by letter to Leonard H. Ponder, American Enka Corp., Enka, North Carolina 28728, U.S.A.

The symposium is designed to accomplish these objectives:

(1) Illustrate computers at work in the laboratory and in process control,

(2) Provide information on the various systems and approaches so that an intelligent choice may be made by the individual worker,

(3) Show the chemist specifically what he must do in order to provide computer assistance in his own area, and

(4) Discuss the results which can be expected in computer assisted projects.

Symposium speakers from three continents will present typical applications in various areas of interest to AOCS-ISF members. Systems from automated laboratories to programmable calculators will be discussed.

MANY USES

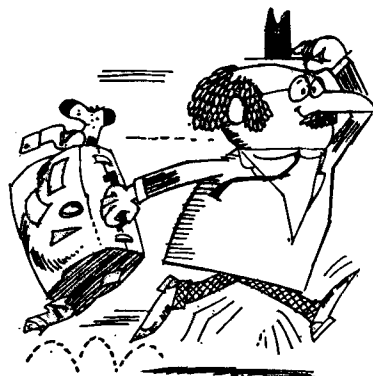
Although the first computer systems filled an entire room and could be programmed only by those specially trained in "machine language," today's systems are both smaller and faster and are programmed by user-oriented languages. Indeed, many systems come already programmed and even the large, multi-use systems supply specific-use programs.

A cross between the calculator and the computer is the programmable calculator or desk-top computer which serves both as a rapid calculator and can also be programmed to perform operations automatically and to output a report in a specific format. Tedious calculations for polarography, ionization of weak acids and bases, gradient devices, kinetics, chromatography and other time consuming projects are handled rapidly by these smaller computers.

Various analytical procedures are being programmed for greater control and increased accuracy. This programming may consist of data collection and subsequent reduction or it may consist of complete automation of the analytical procedure or control processes. Typical analytical instrumentation where computer systems are being used include gas and liquid chromatography, infrared and atomic absorption spectrophotometers, physical testing equipment, thermal analyzers, etc.

For those not desiring to purchase or lease a computer of their own, time-share systems are available for multi-users. Because of the speed of modern computers, simultaneous use by many persons is practical. The computer is also being used to "match" spectra and to formulate from a variety of compounds and component characteristics. Going all the way one can automate the entire laboratory to handle not only individual instruments and results but to also analyze large volumes of data and generate reports.

These and other applications will be described during the symposium.



Meetings

AOCS National Meetings

- Sept. 27-Oct. 1, 1970—Chicago, Conrad Hilton Hotel.
- May 2-6, 1971—Houston, Shamrock Hotel.
- Oct. 2-6, 1971—Atlantic City, Chalfonte-Haddon Hall Hotel.
- April 23-26, 1972—Los Angeles, Calif., Statler Hilton Hotel.
- Sept. 24-28, 1972—Ottawa, Canada, Chateau Laurier Skyline Hotel.

Other Organizations

- Aug. 23-25, 1970—41st Annual Meeting of the National Soybean Processors Association, Fairmont Hotel, San Francisco, Calif.
- * Aug. 26, 1970—Second Inter-American Conference on Materials Technology, Mexico City, Mexico.
- Sept. 20-25, 1970—Sixth Congress of the International Federation of Societies of Cosmetic Chemists, Barcelona, Spain.
- * Sept. 20-23, 1970—International Conference on the Science, Technology and Marketing of Rapeseed and Rapeseed Products, Chantecler Hotel, St. Adele, Quebec.
- Sept. 22-24, 1970—Canadian Chemical & Process Equipment Exhibition, Automotive Building, Exhibition Park, Toronto, Canada.
- Oct. 11-14, 1970—Ninth Annual Meeting, ASTM Committee E-19 on Chromatography, Brown Palace Hotel, Denver, Colo.
- Oct. 14-17, 1970—International Symposium on Computer Applications in Engineering Sciences, Istanbul Technical University, Istanbul, Turkey.
- Oct. 12-15, 1970—84th Annual Meeting of the Association of Official Analytical Chemists, Marriott Motor Hotel, Twin Bridges, Washington, D.C.
- Oct. 26-29, 1970—ISA 25th Annual Conference and Exhibit on Instrumentation, Systems and Automatic Control, Civic Center, Philadelphia, Pa.
- Oct. 26-28, 1970—17th Spectroscopy Symposium and Exhibition of Instrumentation, Skyline Hotel, Ottawa, Ontario, Canada.
- Oct. 26-30, 1970—Fourth Materials Research Symposium, National Bureau of Standards, U.S. Department of Commerce, Gaithersburg, Md.
- Oct. 28-31, 1970—48th Annual Meeting of the Federation of Societies for Paint Technology, Statler-Hilton and Sheraton-Boston, Boston, Mass.
- Oct. 29-30, 1970—Annual Meeting of the Texas Seedmen's Association, Fairmont Hotel, Dallas, Tex.
- Nov. 1-5, 1970—Dairy & Food Industries Exposition, Astrohall, Houston, Tex.
- Nov. 2-4, 1970—Technicon International Congress on Automated Analysis, New York Hilton Hotel, New York, N.Y.
- * Nov. 8-13, 1970—Second Annual Educational Conference of the College of Pharmaceutical Sciences, Columbia University and the Society of Cosmetic Chemists, Dellwood Conference Center, New York, N.Y.

*Additions to previous calendar.