Ortho announces the most powerful, precise, and versatile instrument for cell sorting and analysis ever available commercially: the Ortho Cytofluorograf™ System 50. It combines a rapid cell sorter (based on the electrostatic droplet deflection principle) with a flexible, wide-ranging analysis package in a single versatile unit.

**Ortho System 50 for analysis.**

Its dual-laser excitation system provides three modes of excitation. There are two single individual-excitation sources for different purposes: a .8 milliwatt helium-neon laser for ultra-high-precision scatter measurements, and a 4-watt argon laser for fluorescence measurements.

There are four detectors: two are photomultiplier tubes for broad visible-range response, two are solid-state photo sensors for narrow forward-angle scatter. A photomultiplier tube provides for measuring wide-angle scatter.

**12 measurement parameters.**

The System 50 Cytofluorograf permits for the first time the yielding of morphological information by a flow cytometric instrument. Because pulse height analysis, pulse area analysis, and pulse width analysis can be selected for every detector output, a total of 12 distinct measurement parameters is available with the System 50. Other features of the system include two bidental regions of interest, dual histogram multichannel analyzer with cytogram mode, ultra-sensitive optics, and easy sample entry.

Complete details of System 50 are available in a new brochure available from your Ortho Instruments representative or direct from Ortho Instruments.

**Protocols No. 25 describes discrimination of mitotic phases by cytofluorographic analysis.**

We would like to bring your attention to an application note: *Discrimination of G0, G1, S, G2 and M phases by Cytofluorographic Analysis* contributed by Z. Darzynkiewicz, Ph.D. of Memorial Sloan Kettering Cancer Center, New York, No. 25 in the Ortho Protocols series.

It includes some interesting computer-drawn histograms in its description of how to distinguish mitotic cells from cells in interphase based on differences in chromatin structure. Methods and results are described, with discussion and references.

For a copy of Protocols No. 25, write or call Ortho Instruments

**New brochure available on Ortho Cytofluorograf™ systems for flow cytometry.**

Complete details are given on Ortho Cytofluorograf systems in a new brochure. It lists and describes the different combinations of Cytofluorograf modules that permit you to build a flow cytometry system that precisely meets your present needs and can be modified to suit any future requirements.

With both mercury-arc and dual-laser illumination measurement modules, the new Ortho Cytofluorograf systems offer resolution, sensitivity and versatility unmatched by any other commercially available flow cytometric equipment.

For a copy of this new brochure, phone or write Ortho Instruments.

For any of the information offered on this page, or for additional data about Ortho Cytofluorograf instruments, accessories, and technology, write or phone the Research Instruments Division.
American Cancer Society

NATIONAL CONFERENCE ON UROLOGIC CANCER

A national conference on urologic cancer, sponsored by the American Cancer Society, will be held April 4 through 6, 1979 at the Los Angeles Hilton Hotel, Los Angeles, California. The purpose of the conference is to bring to the attention of the general medical community information on the most recent advances in the understanding and management of this disease. The presentations will be multidisciplinary and objective in orientation, and attendance is open to physicians and medical students. There is no registration fee, but advance registration is requested. The conference is approved for 15 1/2 hours in Category I. For further information, write to:

Urological Cancer Conference
American Cancer Society
777 Third Avenue
New York, New York 10017