

**William J. Hacker & Co., Inc.**  
P. O. Box 646  
West Caldwell, N. J. 07006

**Exhibiting:** H/I series of laboratory, medical, and dual-viewing microscopes and stereoscopic microscopes; photo-micrographic equipment: Jung rotary microtome, clinical microtome, sliding microtome; Watson automatic photo microscope.

**Hamilton Co.**  
12440 E. Lambert Rd.  
Whittier, Calif. 90608

**Exhibiting:** Microliter syringes, liquid dispensers, Aliquanter, pyrolysis system, miniature inert valves, chromatographic accessories, specialty needles, syringe specialties and innovations.

**Houston Instrument Division Bausch & Lomb, Inc.**  
4950 Terminal Ave.  
Bellaire, Texas 77401

**Exhibiting:** Omnigraphic 6540 recorder, 6550 high speed point plotter, 6452 X-Y-YI recorder; HR-100 X-Y recorder; Omnigraphic 6210 universal recorder, 5 strip chart recorder, 8 log linear strip chart recorder.

**Instrumentation Laboratory Inc.**  
9 Galen Street  
Watertown, Mass. 02172

**Exhibiting:** Model 153 atomic absorption spectrophotometer; Model 182 CO-Oximeter; Model 231 hemoglobinometer; Model 330 monochromator; Model 202 oxygen analyzer.

**International Equipment Co.**  
300 Second Ave.  
Needham Heights, Mass. 02194

**Exhibiting:** Ultracentrifuges and accessories; zonal rotors and accessories; routine centrifuges; microtome/cryostats; and plasticware.

**Intertechnique Instruments Inc.**  
Randolph Industrial Pk.  
Dover, N. J. 07801

**Exhibiting:** Model SL40 liquid scintillation spectrometer; Model SA43 correlation computer; Model SA44 signal averaging computer.

**Isomet Corp.**  
433 Commercial Ave.  
Palisades Pk., N. J. 07650

**Exhibiting:** Electro-optic light modulators; harmonic generation crystals for lasers; Q-switches; wide variety of standard and custom single crystals; an operating infrared CW laser and a frequency doubler of particular interest to Raman spectroscopists.

**Keithley Instruments, Inc.**  
28775 Aurora Rd.  
Cleveland, Ohio 44139

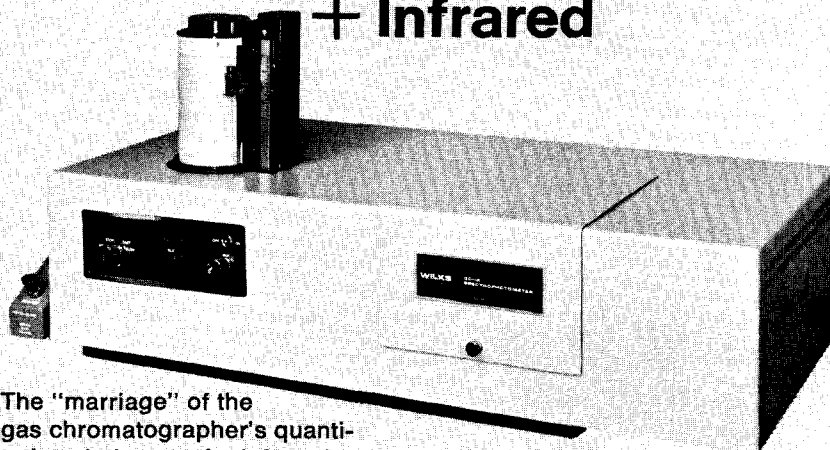
**Exhibiting:** Electrometers (including Model 605 negative capacitance electrometer); picoammeters; operational amplifiers; microvolt-nanovoltmeters; pH measuring devices; calibration devices.

**Kontes Glass Co.**  
Spruce St.  
Vineland, N. J. 08360

**Exhibiting:** Evaporative concentrator; sweep co-distiller; high purity water dis-

WILKS has a better design for Infrared!

## this time it's Gas Chromatography + Infrared

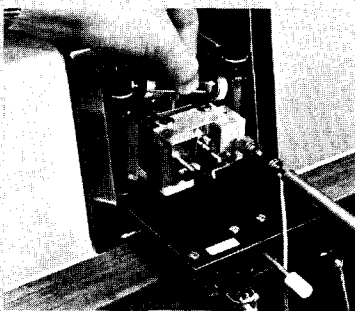


The "marriage" of the gas chromatographer's quantitative elutions to the infrared spectroscopist's qualitative spectra is one of the most efficient analytical procedures available to the modern chemist.

Illustrated above is the Wilks Model 111 which makes previously difficult GC-IR analyses of vapor phase GC fractions routine. The Model 111 is designed to give GC-IR analysis with the same speed, convenience and versatility associated with conventional infrared techniques. Available in several different configurations suited to each customer's needs, the Model 111 GC-IR Analyzer comes with any degree of automatic sample handling desired. The Model 111 is also designed so that "stop-start analysis" can be performed or the bypass feature allows analysis of a single peak. Combining fully automatic operation with high sensitivity (20 micrograms of sample is adequate for a strong spectrum), the Wilks Model 111 is the most advanced laboratory GC-IR Analyzer available.

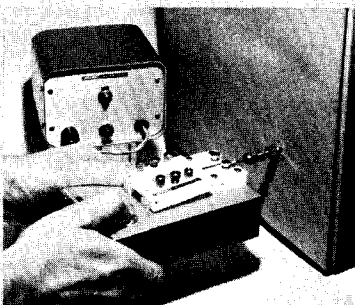
**WILKS** SCIENTIFIC CORPORATION

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### Model 41 Vapor Phase GC-IR Analyzer

The Model 41 fits the sampling compartment of all standard IR spectrophotometers, and contains all the components necessary to mate your existing chromatograph to your IR spectrophotometer for vapor phase sample analysis. The Model 41 is semi-automatic in operation and uses a similar but slightly smaller volume light pipe gas cell as the Model 111. For labs where an IR spectrophotometer cannot be devoted full-time to GC-IR analyses, we recommend the Model 41.



### Model 15 GC-IR Fraction Collector

A hand-held, conveniently portable, thermoelectrically cooled device that collects fractions directly from the exhaust of the chromatograph eliminating the steps encountered in transferring a sample from a cold trap to a conventional micro-transmission cell. This unit is designed with the occasional user of GC-IR analysis in mind or for labs where the GC and IR instruments are separated by distances of more than a few feet. Analysis of sample sizes of 0.40 microliters is common. Samples as small as 0.08 microliters can be analyzed using ordinate scale expansion.

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