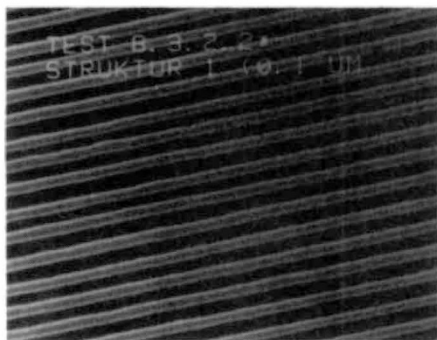


# Eye movements recorded

*This month's sampling of new products includes a sensitive system for recording human eye movements and a bench-top dry ice machine.*

● Microtome manufacturers Temtool Ltd claim that a few years ago disposable 'razor' blades dominated the market, but now the economics of disposable versus re-usable knives is such that the re-usable knife is again competitive, especially when an automatic knife sharpener is used. The Rotosharp 2 from Temtool is an automatic sharpener that takes a wide variety of knife sizes and types (including tungsten carbide) and produces good edges in a few minutes. *Reader Service No. 100.*



*A 0.1-micrometre line pattern on silicon, written on a 0.35-micrometre-thick PMMA resist with the Philips Beamwriter.*

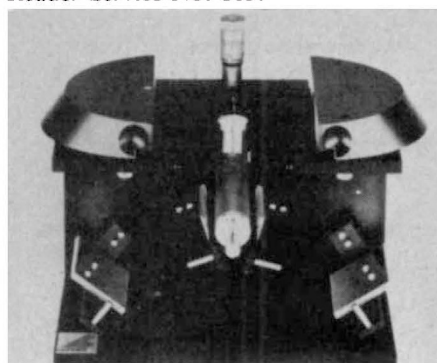
● Sophisticated software, operating on a simple question-and-answer basis, has virtually eliminated manual adjustment of the Beamwriter EBPB-4 vector scan lithography system from Philips. Allowing line-widths down to 0.1 micrometres, the EBPB-4 offers true sub-micrometre resolution. Developed from the world's first commercial production-oriented vector scan electron beam pattern generator (EBPG) system, the EBPB-4 Beamwriter has been specially designed for direct writing onto silicon or gallium arsenide wafers but can also be used for making masks and reticles. *Reader Service No. 101.*

*Reader Service No. 101.*

● For applications in the laboratory where only the standard, 13A a.c. mains power supply is available, Lenton Thermal Designs Ltd has created a range of programmable bench-mounted furnaces: the Ultraspeed and the ECF series. The Ultraspeed reaches maximum operating temperature in only 10 min, and is available in two chamber sizes, 1.5 litres and 2.0 litres. ECF furnaces are available as a general purpose laboratory furnace and as an ashing furnace for the ashing of foods prior to microanalysis. *Reader Service No. 102.*

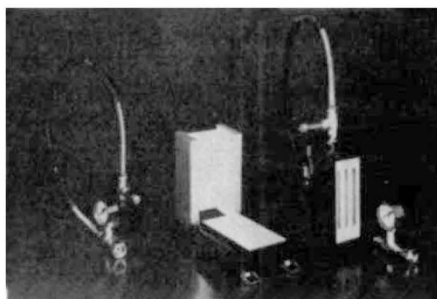
These notes are based on information provided by the manufacturers. Use the reader service card bound inside the journal to obtain further information.

● Now available from Barnes Analytical/Spectra-Tech is the Collector II, an advanced version of their FTIR accessory for DRIFT (diffuse reflectance infrared Fourier transform) spectroscopy. A major development is the Blocker, a device which 'blocks' and greatly reduces or eliminates the specular reflectance component. The Collector II is especially suited for obtaining spectra from fibres, powders, foams, paint chips, catalysts (zeolites) and coal, as well as LC and HPLC eluents. *Reader Service No. 103.*



*Collector II for DRIFT spectroscopy.*

● The SP8773XR absorbance detector, designed for routine operation at low detection limits, complements the Spectra-Physics line of modular, extended-range LC systems. LED display indicates real-time status, and provides self-diagnosis data for easy troubleshooting. Precision flow cells are readily interchanged to accommodate micro to preparative analyses. *Reader Service No. 104.*



*Bench-top dry ice from Polyfoam Packers.*

● The Insta Ice Machine, available from Polyfoam Packers Corporation, is a portable bench-top dry ice machine weighing only six pounds. Blocks can be made in 1 lb or 2 lb sizes that do not require any further compacting. No electricity or batteries are needed — all that is required is a cylinder of liquid CO<sub>2</sub> with a syphon. *Reader Service No. 105.*



*Skalar's device for measuring eye movement.*

● Precise recording of human eye movements is possible with a new system from Skalar of Holland. It involves a scleral induction coil, embedded in a flexible annulus of silicone rubber, which adheres tightly to the limbus of adult human eyes, concentric with the cornea, in a magnetic field. Two a.c. magnetic fields of similar frequency but in spatial and phase quadrature are created by field coils. An a.c. potential is induced in a sensor coil mounted on the eye and the magnitude and phase of the signal depend on the orientation of the eye in the field. *Reader Service No. 106.*

● Anti-tubulin, useful for localizing microtubules in cells, quantitating the amount of tubulin in cells and tissue by radioimmunoassay and for gene cloning and studies of transformed cells, is available from Polysciences, Inc. The antibody can be used for immunocytochemical staining at dilutions of 1:50 to 1:100. *Reader Service No. 107.*

*Reader Service No. 107.*

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