

15¢

\$5.50 A YEAR

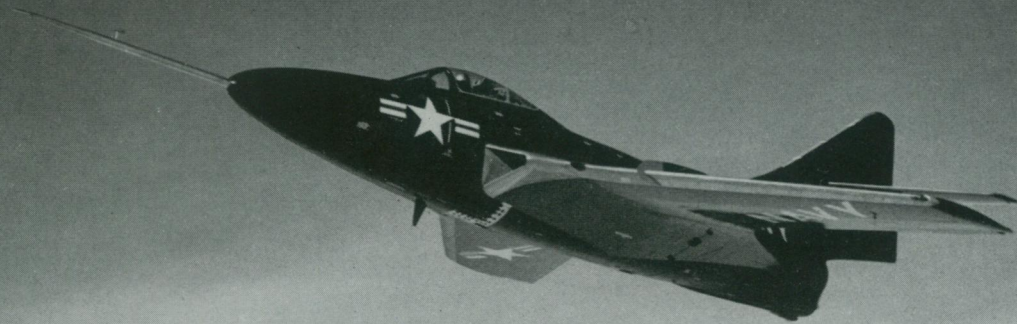
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SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



Korea Bound

See Page 334

A SCIENCE SERVICE PUBLICATION

Kodak reports to laboratories on:

high resolution plates... the mitigation of office drudgery... a reduction in the price of excess C^{13} ... a new projector for detailed study of 16mm movies

High resolution

Kodak Spectroscopic Plates, Type 548-GH, compromise the conflict between high sensitivity and high resolution far in the direction of the latter. With suitable optics they can resolve more than 1,000 lines per millimeter, and yet they are only about twenty times slower than the Kodak Lantern Slide Plate. We have seen 70,000 well formed characters laid down in a 5-sq. in. area on these "548-GH's." It's done as a routine manufacturing operation, too.

Now, what with manufacturers getting ideas for these wondrous plates, while reticle makers, micro-radiographers, and sundry other enthusiasts continue to cry for them, we remove these plates from the "Kodak Spectroscopic" classification and turn the job of manufacturing them over from the laboratory to the factory. We highly resolve that under their new name of *Kodak High Resolution Plates*, they will continue to provide resolution as high as ever.

Kodak High Resolution Plates are sold by Kodak Industrial Dealers, generally after details about sizes, glass thickness, etc., have been cleared up in correspondence directly with Eastman Kodak Company, Industrial Photographic Division, Rochester 4, N. Y.

Verifax copying

This young lady is demonstrating the new, revolutionary, and unique Verifax Printer, a form of salvation



from drudgery for millions of her typewriter-pounding sisters, including the one who works for you. Surely her time can be more profitably used than in copying reports, letters, cards, charts, etc., when a ready-to-use Verifax copy can be

made in a total elapsed time of 50 seconds, two more in the next 10 seconds, often as many as six from a single sensitized sheet. That sheet is a rather fundamental new development from the Kodak Research Laboratories. Roomlight-handling, it incorporates its own developer and dye-former. After reflex exposure within the machine, this sheet is "floated" into a built-in tray of activator. The whole sheet blackens in a few seconds, but wherever white space on the original document resulted in light exposure, the more vigorous development reaction releases a product which locally hardens the gelatin. The unhardened areas, representing what was dark on the original document, are now left soft and black and readily transferable to as many as six successive sheets of plain, dry, unsensitized paper pressed with it through a roller on the unit. If your young lady appreciates such niceties of physical chemistry—congratulations! But even if she doesn't, the copies will be just as good and still cost less than five cents apiece for three made from one matrix.

The Verifax Printer will sell for \$240. If you'll write to Eastman Kodak Company, Industrial Photographic Division, Rochester 4, N. Y., we'll arrange for a demonstration, as equipment becomes available in your locality.

Ba C^{13} O_3

We've recently cut the price of *Barium Carbonate* from \$400 per gram of excess C^{13} to \$160 per gram. This is very special barium carbonate. Sixty to seventy percent of the carbon atoms in it are of the C^{13} species, as compared with the 1.1% abundance of this species of carbon atom ordinarily encountered wherever carbon occurs. We ask purchasers of it to specify not how much barium carbonate they want or even how much C^{13} they want (there is, of course, plenty of C^{13} all about you), but the weight of excess C^{13} desired. To people equipped with a mass spectrometer and engaged in tracer studies where radioactivity is a nuisance, it will also be gratifying news that we have

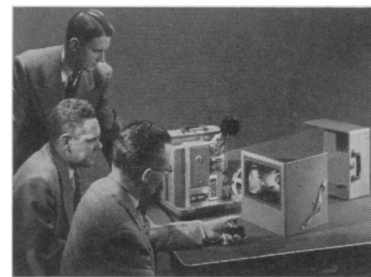
slashed prices on the other three C^{13} -enriched Eastman Isotope Concentrates we supply.

If you're interested in the details on Barium Carbonate (Eastman C^{13} -6020), or other Eastman Isotope Concentrates of C^{13} or N^{15} , write to Distillation Products Industries, Eastman Organic Chemicals Department, Rochester 3, N. Y.



"Analyst" projector

This is for those who use 16mm movies for dispassionate purposes: the analysis of cavitation, of the motion of cilia, of malfunction in a tapping machine, of a girl assembling a cigarette lighter, of a sophomore's performance at tackle, and



so on through the myriad of applications of high speed and normal speed cinematography.

We now offer the Kodascope Analyst Projector for the minute study of silent 16mm film footage. It is specifically designed to be reversed and rerun all day long without a hitch, without overheating, and without blanking out at the instant of reversing. The blower fan keeps on blowing whether the film is moving or not because it is on a separate motor. Built right into the carrying case is the Kodak Daylight Projection Viewer. There is no need to turn the room lights off or pull down the shades and no need for a bulky screen. The reversing switch is on the end of a 5-foot cord for the benefit of a projectionist too excited to sit still.

For a demonstration of the Kodak Analyst Projector see a Kodak Industrial or Audio-Visual Dealer. Write Eastman Kodak Company, Cine-Kodak Sales Division, Rochester 4, N. Y., if you don't know where to find one. The machine currently lists at \$295.

All prices quoted are subject to change without notice.

This is one of a series of reports on the many products and services with which the Eastman Kodak Company and its divisions are... serving laboratories everywhere

Kodak
TRADE-MARK