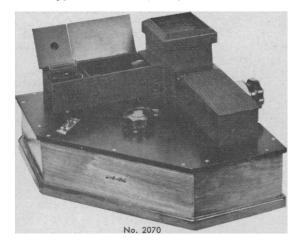
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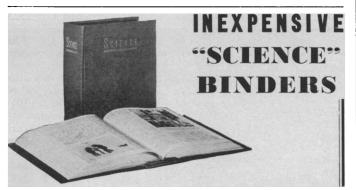


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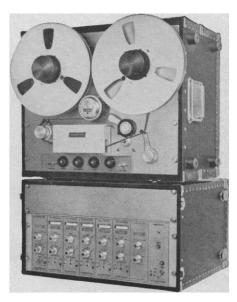
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Special Reference to Mountain & Plains Regions Wynne Thorne, Editor

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He has planned out a tricky piece of high-speed photography. He carefully selects the transmittance characteristics from the catalog. After the filter comes in, he measures the transmittance in his own laboratory. It checks out exactly as advertised. The great flash of light occurs. The photographer goes home to bed and cannot sleep. Did the flash bleach out the filter before the event was over? It is only dyed gelatin, after all. He slips on his trousers, jauntily greets the night men at the gatehouse, and rechecks the filters. Transmittance still exactly as advertised. He leaves a note that he will not be in until after lunch, bids a jaunty good morning to the fresh crew at the gatehouse, and this time is able to make happy noises with his uvula 30 seconds after hitting the pillow.

Poor fellow! His daddy had never explained to him that in many organic dyes the descent from the excited singlet state can proceed by way of an intermediate triplet trap where molecules can linger practically forever-1/100 second or more. Because of this depopulation of ground state with high light intensity, the window shade was up some and he may never suspect. Perhaps worse, the populated triplet state may have manifested itself in temporary absorption bands not shown in the book.

Now the laser men are turning the curse of flash photolysis into a convenience. In giant-pulse outfits they are having good luck replacing costly Kerr cells with cyanine dye solutions that require no unsightly wires. Some seem to do an acceptable job of blocking off the end-mirror until high inversion is attained, and then they open up. Quick-eared laser men have developed a sudden passion for dye lore.

It is an old art closely bound to mature trades like textiles. There are Easter-egg dyes. There are dyes for changing organdy curtains from coral to aqua. There are biological stains. Beyond lies mumbo jumbo. Unless your brother-in-law is a great scout and an officer of the textile color chemists, you find yourself knee-deep in the patent literature. Again and again you fish out our name. You decide to sit down and write us a letter, to which we answer as follows:

We hope you will appreciate why we are unable to supply samples or enter into further technical discussion of the large number of dyes that our chemists have developed in the course of photographic research. We believe that for your purpose, however, you may find it useful to consider the following selection, all of which have been reof which are sold as Eastman Organic Chemicals by our division, Distillation Products Industries, Rochester, N. Y. 14603. Implicit in any spectral sensitizer, photographic or otherwise, is a high degree of absorbance at the wavelength for which the molecule has been designed.

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622 Pinacyanole (Chloride)

The time has come this autumn to quit kidding ourselves. Beautiful photography is a great art that has virtually nothing to do with the purposes for which physical scientists and engineers justify their heavy consumption of 16mm, 35mm, 70mm, and larger widths of film during working hours. We had better see things their way. We now know they are seldom in a mood to treat film as an object of veneration, a subject for mystic rites that can be short-cut only at grave peril to conscience.

All they seem to want are the data—the quicker the better. The exact nature of these data is really none of our cottonpickin' business, except insofar as the users care to talk or honor us with reprints some fine day. The best we can contribute to their spark-chamber or bubble-chamber physics, their radar recordings, their studies of bioluminescence or of the stratigraphy of Antarctica, their improvement of sugarbeet pulping machinery or of ignition systems for vernier rockets, their logging of oil wells, their probing of the Saturnine atmosphere, their counting of taxis on the Golden Gate Bridge, and all the other vaguely imagined tasks they perform with film—the best we can contribute is a fierce determination to make them demonstrably better film for their multifarious purposes than anybody else can make.

To this end we are placing upon the market a new line of films. We don't want them confused with films designed for beautiful movies either by us or by our competitors. You will get to know them by a trademark that hardly suggests softness and beauty. It happens to consist of the initials for "Rapid Access Recording.

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Hardly less important than the characteristics of the new films is ready information about said characteristics so that user and maker can sit down together and make the best choice for the work at hand. Get in touch with Eastman Kodak Company, Photorecording Methods Division, Rochester, N. Y. 14650, phone 716 - 562 - 6000, Ext. 3257. See what happens. The new trademark, by the way, is:



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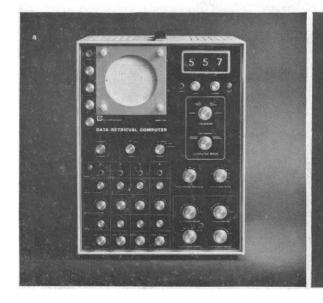
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