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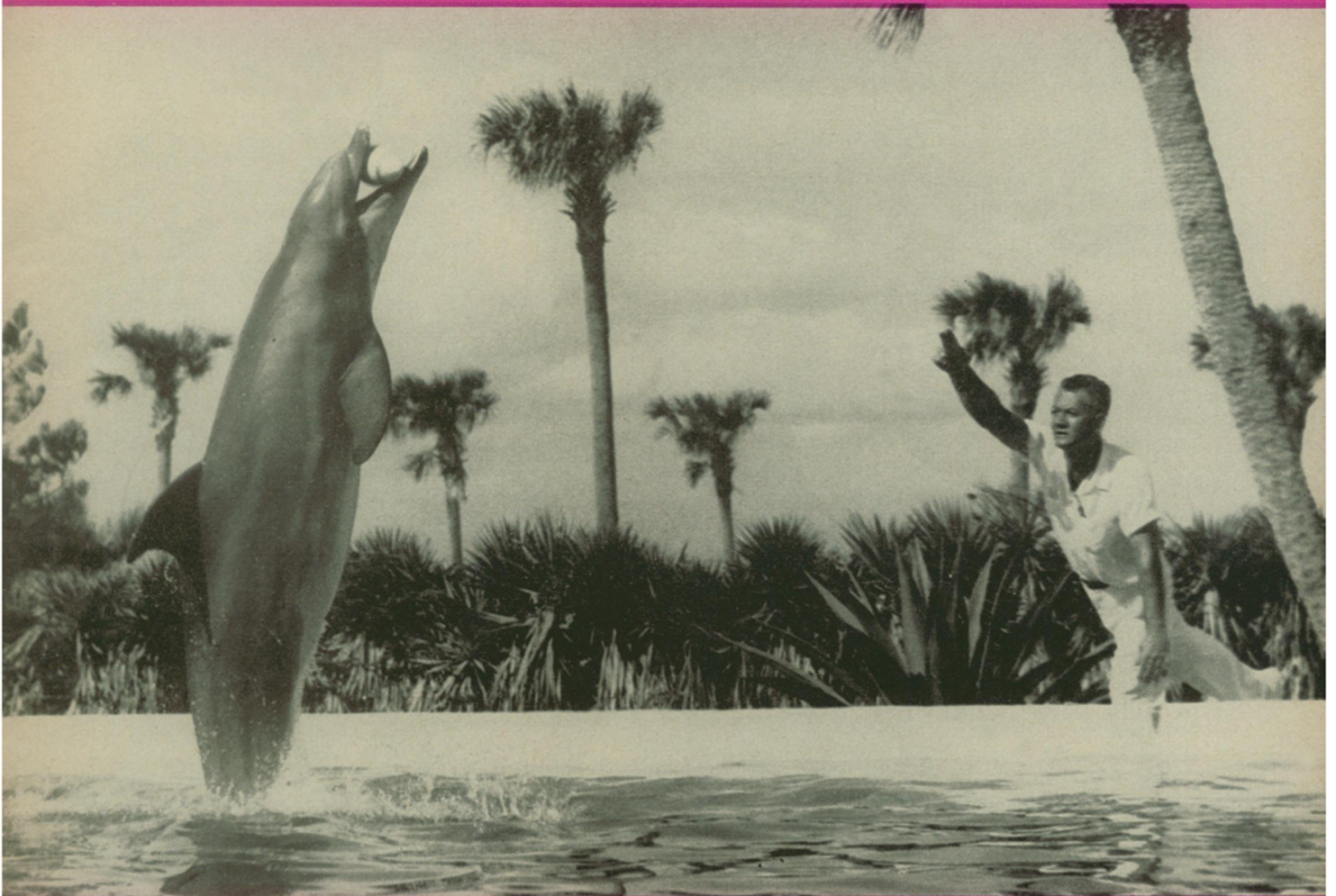
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SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



Playing Porpoise

See page 356

A SCIENCE SERVICE PUBLICATION

Kodak reports to laboratories on:

what's available in microreproduction . . . copy negatives on a film with a peculiar H & D curve . . . our costliest last-minute addition

Fear not the paper mountains

How most efficiently to store and retrieve records of fact, feeling, fancy, or thought set down by one human being for another to read at a subsequent time—this core problem we employ dozens of men to ponder. A few of their schemes are already in the hands of the fellows with the screwdrivers and square-wave generators. As the months and years go on, we hope you will hear more about these things. For the present, those who fear the paper mountains must trust in microfilm and its offshoot, the microprint card (the latter for objectors against a return of literature to the scroll format).

In numerous cities there are organizations with commercial motivation for being helpful in applying microreproduction to your own situation. One of these, Recordak Corporation, our subsidiary with offices at 415 Madison Avenue, New York 17, and branch offices in many other places, is the pioneer in working out routines for record-keeping through microfilm. Other organizations sell and service our Kodagraph apparatus for making or viewing microfilms in less specialized applications.

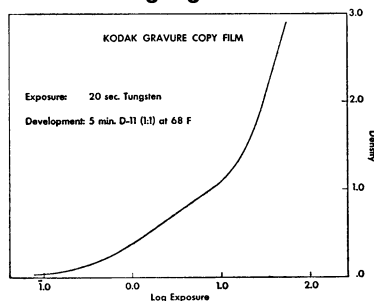
One such, University Microfilms, 313 North First Street, Ann Arbor, Mich., has set itself the task of microfilming a vast number of past and current periodicals from many fields and many nations, from the most scholarly to the lowbrow. They couch their advertising argument in terms of a quadratic equation in t , the time during which a periodical file is stored, and then in 15 pages of close-set type list all the periodicals which they sell in microfilm form. Prices are comparable with the cost of merely binding paper editions. Of the Augean labors in law and librarianship that made the list possible they say little. Perhaps if you write them, they will send you a copy.

Another of our microfilming deal-

ers, Micro Photo Inc., 4614 Prospect Avenue, Cleveland 3, Ohio, strives for eminence in the newspaper division of the microfilm domain. Their catalog, in addition to the New York *Herald Tribune*, the Las Vegas *Optic*, the Waukegan *Little Fort Porcupine* (March 12, 1845 through March 16, 1847), and some 800 other current and defunct titles, offers also the *Official Gazette of the U. S. Patent Office* in microfilm from 1930 to date.

For our own survey, "What's Available on Microprint Cards," or the name of the nearest microfilming dealer we recommend, write Eastman Kodak Company, Graphic Reproduction Division, Rochester 4, N. Y.

Are YOUR highlights washed out?



Just as some fortunate people are able to turn the pages of a Brahms score and hear the lovely music in the mind, so also a few (perhaps not quite so fortunate) can look at this curve and say, "Yup, a good long straight-line portion and then, as you go to your higher densities, your contrast starts going higher and higher. That's funny. An H & D curve is supposed to have a shoulder. Where contrast falls off when you get past the straight-line part. This shoulder is inside out. *Kodak Gravure Copy Film*, eh? Ought to be good for making copy negatives from pictures where the highlights are washed out. You could get some of the old lost zip back. Why did they have to wait till now to come out with it?"

Because we didn't know how to make it properly till now, that's why. If you're so anxious, why don't you call up a Kodak dealer right now and order some?

Actually a bargain

A month or two ago "Eastman Organic Chemicals, List No. 40" appeared and was sent or offered to all who feel a need for a list of some 3500 organic compounds available from a single source. Even as the type was being set, additions were being made. A few of these we were able to incorporate in a last-minute supplementary list. Let us, for fun, examine the most costly of these items, *2,4-Dimethylbenzoic Acid* (Eastman 7262) at \$3.55 for one gram.

This is actually a bargain. Anybody who has use for more than one gram of it knows a secret that we don't know. We are speaking, then, not of \$1600 per pound but of the sum of \$3.55. \$3.55 is less than it costs a chemist's employer to have him walk down to the library, fire up his pipe, exchange a few observations on school district politics with a colleague, and consult a few books which help him decide to get hold of some really pure m-xylene (where?), treat it with acetyl chloride in the presence of ferric chloride to convert to 2,4-dimethylacetophenone (assume he realizes that aluminum chloride suggested in some of the books sends the methyl groups skittering around the ring), and finally convert the acetyl substituent to a carboxyl by splitting it with sodium hypochlorite in a haloform reaction. For \$3.55 we not only do all this but stand prepared to defend the thesis that *2,4-Dimethylbenzoic Acid* is what was in the bottle when we sealed it.

If this makes sense and you haven't as yet received your copy of "Eastman Organic Chemicals List No. 40," write Distillation Products Industries, Eastman Organic Chemicals Department, Rochester 3, N. Y. (Division of Eastman Kodak Company).

Price quoted is 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

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NATURAL RESOURCES

Shrimp Ground Found Near India

➤ **FINDING** a rich shrimp area along India's southwest coast has led to the start of a shrimp trawling industry in the region and shrimp freezing for domestic and export trade.

A report from the United Nations Food and Agriculture Organization, Rome, says the shrimp ground was discovered by G. S. Illugason, an Icelandic fisherman working in Madras state.

Science News Letter, December 8, 1956

MARINE BIOLOGY

Porpoise Plays With Football**See Front Cover**

➤ **ALGAE**, a trained porpoise at Marine Studios, Marineland, Fla., demonstrates in the photograph on the cover of this week's SCIENCE NEWS LETTER the skill with which he can catch objects.

The porpoise's ability to catch a football, in or out of the fall season, is surprising to visitors.

Science News Letter, December 8, 1956

EXPERIMENTAL PSYCHOLOGY



by I. Pavlov

The publishers deem it a privilege to present, in this comprehensive anthology, the basic writings of the Russian physiologist and psychologist.

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