# SCIENCE NEWS LETTER



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THE WEEKLY SUMMARY OF CURRENT SCIENCE



Floating Men
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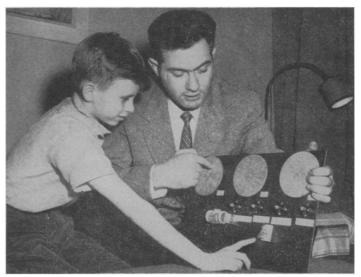
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# Kodak reports on:

the stylish advent of a new polyester structure...how much better x-ray film is getting

**KODEL** is the registered trademark for a new Eastman polyester fiber. Much is to be heard of it. It significantly extends the range of fabrics and apparel that can be classed as wash-and-wear or easy care. Garments in which it is properly blended with other fibers stay fresh and neat under trying conditions. They have a pleasing, comfortable feel. Here are some 55% Kodel-45% worsted blends in which it can be enjoyed this coming spring and summer.



Timely's "Planet" suit, a welcome addition to the wardrobe of commuter or global traveler. The modified lounge coat with slim lapels is available in both three-button and two-button models. Your choice of seasonable colors. About \$60.

Michaels-Stern has tailored this suit for the busy executive in both a bengaline plain pattern and a corded stripe, in a full range of sizes and colors. The name is "Whisperwate" and with good reason—for the ultimate in cool comfort.

The long, slim, straight look of Varsity Town's "Picture Suit" takes on added distinction from the fabric—with Kodel's soon-to-be-famous ability for holding a press, fending off wrinkles. Note the longer lapels, higher pockets.

To the suavity customary in those who model men's wear, our three gentlemen above add authenticity. Alan Bell (left, Ph.D., McGill University, 1937) and Charles Kibler (center, Ph.D., University of Virginia, 1939) directed the first synthesis of the *Kodel* polymer in the laboratories of Tennessee Eastman Company—a true linear polyester containing a chemical group not previously present in polyesters. Emmett V. Martin (right, Ph.D., University of California, 1932), now a physicist, once wrote a paper (*Plant Physiol.*, 10, 613-636) entitled "Effect of Artificial Wind on Growth and Transpiration in Helianthus Annuus." (That's the common sunflower.) He led the way to the unique physical structure of the *Kodel* fiber.

# AA-KK

X-ray film is getting better.

Our fastest kind used to be Kodak Industrial X-ray Film, Type K. Now we call it Type KK. The speed has gone

up 50%. A 72-hour exposure becomes a 48-hour exposure. Time is money. So they say. Same principle applies to uranium fuel elements. (To Cs<sup>137</sup> gamma rays, ¾" of uranium looks like

This is another advertisement where Eastman Kodak Company probes at random for mutual interests and occasionally a little revenue from those whose work has something to do with science 4" of steel.) Type KK is a bit grainier than Type K. But it has higher contrast. The gain outweighs the loss. Up goes "radiographic sensitivity."\* Radiographers can spot smaller voids.

Kodak Industrial X-ray Film, Type AA beats KK seven ways to Sunday for "radiographic sensitivity." It's some slower, though. As Type A, it used to be a lot slower. That was a little over a year ago. It was then the most widely used x-ray film in industry. Now it's more so. That sounds like tautology. Nevertheless, it makes us happy. With the higher speed, inherent contrast has gone up, not down. Grain's the same. This is remarkable.

They can just reduce exposure time. Even for thinner specimens, time is money. So it is said. Or they can cover more area at a single exposure. That's another way to save time. Or they can get their usual density with shorter processing. This likewise saves time.

Or they can take the same time and get more film density. Contrast and therefore "radiographic sensitivity" improve at higher density.

Or they can get through the specimen with less penetrating radiation. Softer radiation emphasizes density differences along ray paths of slightly different absorption. You want those differences.

Type AA also has less tendency to desensitization by mechanical pressure.

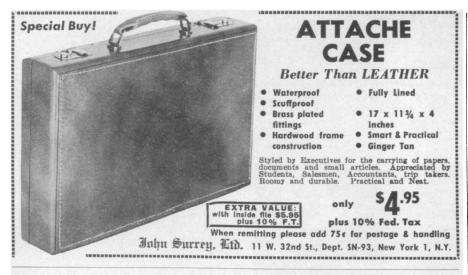
Kodak Industrial X-ray Film, Type M is for maximum detail and no rush, or else light specimens. Kodak Industrial X-ray Film, Type F goes with calcium tungstate screens. Their fluorescence in the visible intensifies the exposure. In a pinch that's sometimes all right.

If you had to, you'd get the hang of it, all right. Yes, even the radiography of plutonium hardware, where you're recording both endogenous and exogenous radiation. We'd give you what advice we could (but very little about plutonium). You'd write Eastman Kodak Company, X-ray Division, Rochester 4, N. Y.

But for goodness' sake, don't get physi-

But for goodness' sake, don't get physically involved before finding out about film badge dosimeters or placing yourself under the protection of someone who knows. For a free (literally) and easy smattering of that subject and a bibliography of more substantial fare, ask for the brand-new pamphlet "Radiation Monitoring."







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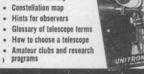
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GEOPHYSICS-What are believed to be the causes of the two distinct radiation belts in outer space? p. 83.

What new concept of the earth's shape has been recently reported? p. 87.

METEOROLOGY—How many lightning strokes vere counted during the 16 days in 1958 when clouds were seeded with silver iodide? p. 86.

ROCKETS AND MISSILES—What six predictions were recently made by U. S. space experts? p. 85.

Photographs: Cover, U. S. Air Force; p. 83, Naval Research Laboratory; p. 85, Indiana University; p. 87, Bell Telephone Laboratories, Inc.; p. 90, Space Technology Laboratories; p. 96, Westinghouse Electric Corporation.

# Do You Know

As of February, 1958, 1,519 isotopes of the 102 known elements had been discovered.

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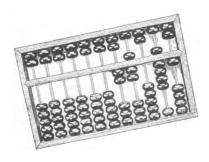
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Newton.

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"When Dr. Samuel Johnson felt, or fancied he felt, his fancy disordered, his constant recurrence was to the study of mathematics," James Boswell.

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