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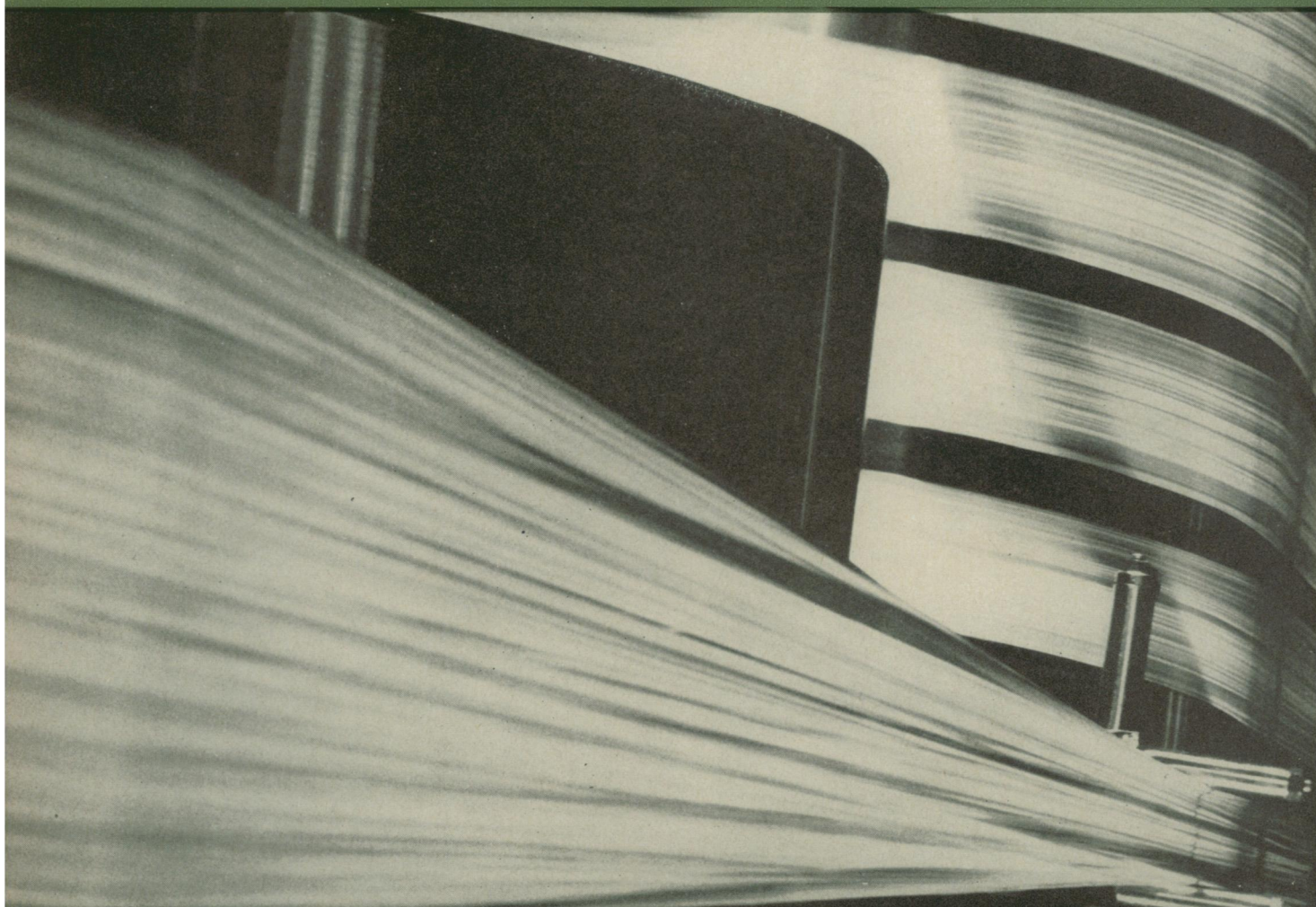
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May 2, 1964

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SCIENCE NEWS LETTER

THE WEEKLY SUMMARY OF CURRENT SCIENCE



Hercules Powder Company

Molecular Orientation

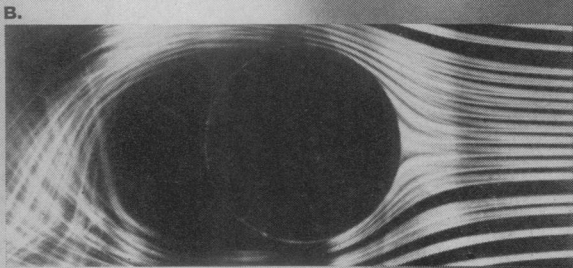
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A SCIENCE SERVICE PUBLICATION

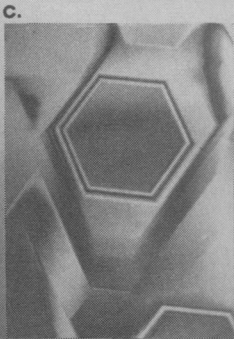
One of a series on GM's research in depth



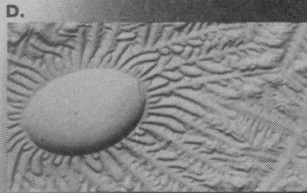
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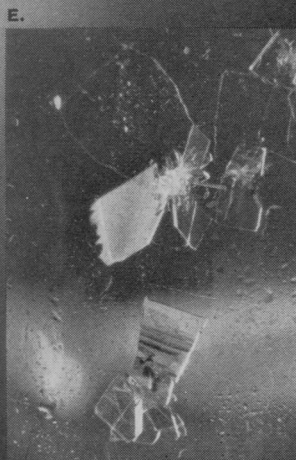
B.



C.



D.



E.

Art for science's sake

That's what some of our research scientists got when they photographed what they were seeing close up in their labs: the etched surface of a cadmium sulfide crystal, an oxide film on a single crystal of iron, and many others.

The results were such striking examples of art in research that we collected the best for a small display at the Laboratories. And that was just the beginning.

Today, several sets of these photos in color are constantly on loan to universities, high schools, art schools, and museums. Even the GM Futurama exhibit at the World's Fair will feature some of our collection in two and three dimensions.

The art in research project is a dramatic example of the beauty and excitement experienced by the research scientist. Not only that, its success shows that the researcher's delight in the orderly world of science is something that can be shared with the student . . . the artist . . . or the ordinary man.

General Motors Research Laboratories Warren, Michigan

A. From our solid state physics lab (*Oriented surface resulting from reduction of oxide scale on an iron single crystal*) **B.** From our fluid dynamics lab (*Air flow over a cylindrical body*) **C.** From our semiconductor lab (*Etch pit in a cadmium sulfide single crystal*) **D.** From our solid state physics lab (*Thermally etched single crystal iron surface*) **E.** From our chemical separations lab (*Crystalline organic nitrogen compound from vehicle exhaust gas*)

Star gazers, junior astronomers, nature lovers!
Here is the only book in English to tell the fascinating story of



STAR NAMES: Their Lore and Meaning

by Richard H. Allen \$2.35

Did you know that "Hercules" is one of the oldest sky figures?

What constellation was worshipped in China as "The 7 Sisters of Industry" and called by German peasants, "The Cluck Hen"?

How many different names do you suppose there are, even today, for the Milky Way?

It is amazing how much can be learned about the stars and about the history of man's developing science of astronomy simply from a careful study of the names that stars have been given through the centuries. This unusual book is the only one available in English that goes over this fascinating material, and it does so in engaging, non-technical terms that have made it a popular favorite with everyone who appreciates the great beauty and wonder of the heavenly bodies.

A vast heritage of folklore explored!

Only many years of patient research by the author through the astronomical writings and observations of the ancient Chinese, Arabic, Euphrates, Hellenic and

Roman civilizations could have uncovered such long-hidden facts as the origins of solar and lunar zodiacs; where the idea of the Milky Way comes from; how star pictures were originally set up and why; the development of the pseudo-science of astrology, with its maze of connections between the stars and man's fate; and other star curiosities. And only such research could have uncovered the wealth of material that the author gathered together about the vast heritage of popular lore associated with the stars.

Progressing in alphabetical order, the book touches upon each of the constellations—all those we recognize today, plus many that long ago dropped out of the standard star catalogues you may be familiar with. In each case, the important individual star components and such other asterisms as the Hyades, the Pleiades (China's "Seven Sisters"), Andromeda's Great Nebula, and the Magellanic Clouds are discussed one at a time.

The discussion delves into the various names given to each of these stars and groupings by various cultures and peoples, quoting or summarizing hundreds of literary and folkloristic references, listing variant spellings and alternate translations, and giving the

often incredible associations that the ancient peoples set up to bridge the stars and the world they knew.

Aside from its entertainment value, this associational material can be very helpful when it comes to remembering star names and locations. The connection between many star names and the constellations they belong to offers a further advantage in organizing the vast amount of material you must work with.

Completely non-technical!

All this material is presented in language that every star-gazer will welcome. Beginning hobbyists will find the book a completely accessible introduction to a lot of material they won't find anywhere else at this level. Readers interested in the emergence of scientific attitudes in astronomy will also find this text valuable. Even practiced observers will find its insights into early theory, drawn from documents no longer accessible, refreshingly informative.

Revised, 1964. Introduction by the author. Indices: subject, Arabic and Greek names, Biblical references. xiv + 563pp. 1079. Paperbound \$2.35

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