

# SCIENCE

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## Thomas Henry Huxley...on pure and applied science

"I often wish that this phrase, 'applied science,' had never been invented. For it suggests that there is a sort of scientific knowledge of direct practical use, which can be studied apart from another sort of scientific knowledge, which is of no practical utility, and which is termed 'pure science.' But there is no more complete fallacy than this.

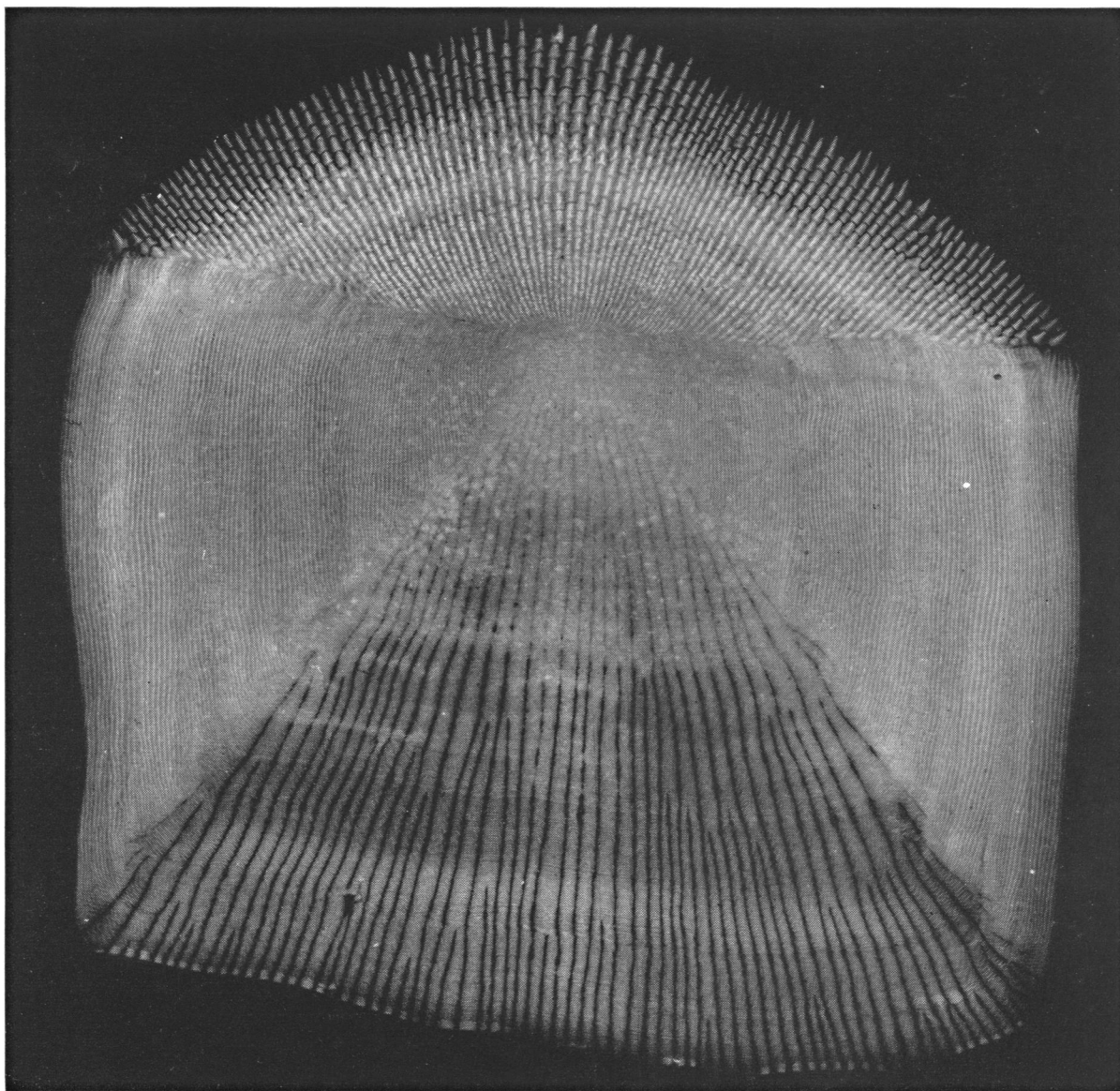
What people call applied science is nothing but the application of pure science to particular classes of problems. It consists of deductions from those general principles, established by reasoning and observation, which constitute pure science. No one can safely make these deductions until he has a firm grasp of the principles." —*Science and Culture*

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a fish story with a picture to prove it . . . hacking out carbonyl compounds of biological origin



This is a microradiograph of a striped bass scale. In microradiography one passes low-voltage x-rays through a specimen to a special fine-grain photographic emulsion in intimate contact with it. The resulting photographic image then becomes a subject for conventional photographic enlargement or photomicrography. If you already know that much, there is then some point in requesting of Eastman Kodak Company, Special Sensitized Products Division, Rochester 4,

N. Y., information about an improved material for this work which we hope to have available in the near future. The same source can also provide a recently updated bibliography on results and techniques with microradiography.

But don't ask us about striped bass and the lessons to be learned from their scales or their stripes. Ask the Fish and Wildlife Service of the U. S. Department of the Interior in Washington.

### Colored handles

We have a project to develop (more candidly, to keep an eye on) reagents that would provide colored handles for various classes of compounds so that you could tell where they wound up in chromatographic separation. Then you could hack out these sections or spots and go to work on them. In *p*-Phenylazobenzoyl Chloride (Eastman 5549) we have had such a reagent for sterols, sugars, and amino acids. (Procedural abstract on request.)

Now in 4-(*p*-Phenylazophenyl)-semicarbazide (Eastman 7443, 5 grams for \$4.30) we have one for carbonyl-containing compounds. In this case, instead of a mere abstract we offer you the far greater thrill of working out the entire procedure for yourself. Push off from *J.A.C.S.* 77,6693 (1955), where this compound is considered for the isolation of carbonyl compounds of biological origin, trioses in particular. There is a part where they tell how to prepare the reagent. That you now skip.

*We can chant some 3600 variations of this same basic theme, since there are some 3600 Eastman Organic Chemicals obtainable from Distillation Products Industries, Rochester 3, N. Y. (Division of Eastman Kodak Company). Anyone who prepares one of these compounds himself instead of buying it from us may have too much time on his hands.*

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