SEPARATION



The Long Life Sieve is designed to allow the operator to replace the screen upon failure. The savings in cost of testing is realized when the cost of the replacement of the screen alone is compared with the cost of the replacement of the sieve screen unit as now practised. The frame of the sieve is constructed of chrome plated brass.



Vac-Pres Filters are bacteriological filters which may be used for vacuum or pressure filtration. These filters are available in 10 ml, 50 ml and 250 ml capacities. Other sizes upon request. The Vac-Pres Filters manufactured of brass with the interior silver plated and the exterior chrome plated. Stainless steel also available.



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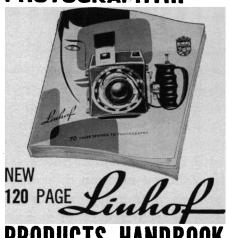
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gaged in research to such an end. Types of one economically important but neglected group, common almost everywhere in the world, usually are in the same sort of pickle (literally and figuratively) as they were a century ago, but if they are not, then they are in a still less satisfactory condition. All such types are slowly deteriorating. No effort is being made, so far as I know, in any stable institution anywhere in the world, to discover better techniques for preserving these animals.

The certifying authority also should be required to satisfy itself that the museum rules regarding types really will promote the advance of knowledge. One of several instances that can be cited is as follows. Species x was erected in 1871 on the basis of a single specimen, of which only the external characteristics were described, and those all too briefly. The authority on the group examined the type in 1888 but could add no information of importance, for he was not permitted to make a dissection. The species can belong to any one of six genera distinguishable from each other only by their internal anatomy. Each of some dozen monographs has had to waste space in vain repetition of the little that was known 70 years ago about this species incertae sedis.

G. E. GATES

University of Maine, Orono

Without reviewing the substance of Gates' remarks, with which I am in substantial agreement, I should like to point out that the conferences referred to did not discuss "regulations," "certification," or "certifying authorities." The conferences adopted some resolutions which I regard simply as recommendations to appropriate authorities by a group of informed specialists. No legalisms were implied.

ARNOLD B. GROBMAN

American Institute of Biological Sciences, University of Colorado, Boulder

Visual Effects

The photograph of the Arizona Meteor Crater on your cover for 22 July is excellent for the well-known demonstration of the effect of inverting the image. Held upside down, the crater appears to be a great mound. What makes this photograph especially good is the fact that it is taken from such a high point that the horizon does not show. Most astonishing effects may be obtained by holding the picture about 18 inches from the eyes and rotating it smoothly, at a rate of about 360° per minute, either clockwise or counterclockwise. At certain moments, when the picture is 90° or so from normal, the crater appears to be a great mass of rock completely detached from the ground. With somewhat more rapid rotation, and very steady fixation of the white area in the center of the crater, I tend to develop an amusing semblance of vertigo.

CLARKE W. CRANNELL Department of Psychology, Miami University, Oxford, Ohio

The High Cost of Reading

To read is to learn, and to know is to foresee and be strong. All this is easier if one has books of one's own, the more of them the better. But scholarly books are expensive, painfully so for those who need them most, the young and the unlearned.

New books are expensive because they are costly to produce, they sell in small numbers, and publishing houses must remain solvent. Financial aid in their distribution might make it possible to sell scholarly works at prices all those who wished them could afford. If more copies of a book would sell, unit production costs would decrease. Once such a program got started it might be that small sums of money would greatly increase the number of books made available to those who want them.

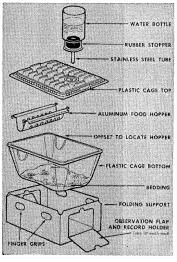
This new form of aid to the education of scholars and scientists seems to be a natural extension of the role of philanthropic foundations. Continuing a tradition of specialization, and in order to provide some measure of longrange effectiveness, a foundation interested in such a program might select a definite field of knowledge in which to help books reach their destined readers. Large foundations might choose large fields: virology, nutrition, cellular biology, linguistics. Less wealthy foundations could establish their identity by supporting more circumscribed fields: psychology of perception, history of biology, philosophy of science.

Financial aid in the publication of scholarly books is not a new idea, but heretofore such help has not been notably effective in making books cheaper. What is needed is some form of aid that would let a \$6 book sell for \$3, a \$10 book for \$4; perhaps no scholarly book should cost an interested individual more than \$5 or \$6. The selling price ought to be a test of serious interest and not a test of ability to pay. Anybody willing to spend \$5 on a book on the chemistry of amino acids, or on comparative linguistics, deserves to have the book.

A system would have to be found which would preserve the tradition of

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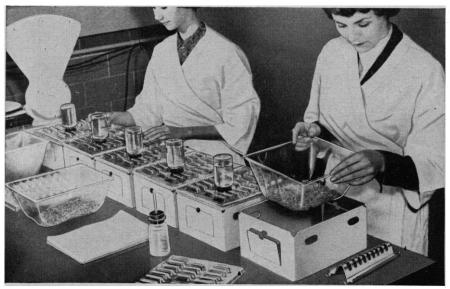
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