

When a Magnifying Glass
is not nearly enough and a
Stand Microscope is too much...

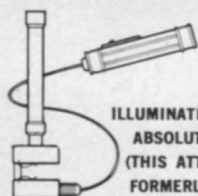
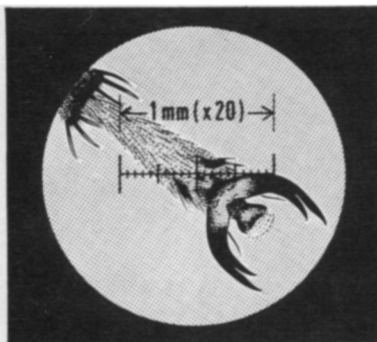
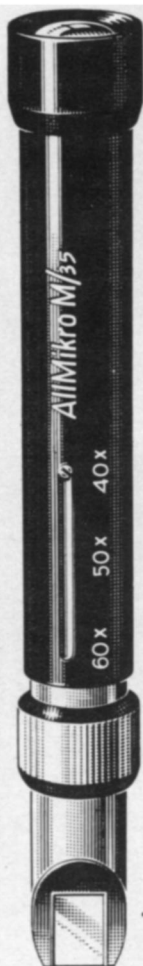
**This portable AllMikro
measuring microscope is
just what's needed.
Unexpected professional
features and quality
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A magnifying glass doesn't show you much. A laboratory microscope is too expensive to risk outside the lab. The AllMikro is another matter. It's designed to travel and to provide Microscope power, measuring precision, and illumination when you get there. Whether your work (or hobby) is biology, mineralogy, metallurgy, photography, numismaty, philately or whether you are just plain curious about the hidden miracles around you, the AllMikro M/35 should be a steady breastpocket companion. The M/35 provides a continuous range of magnification from 40x to 60x. Instant focusing. The "foot" rests the instrument on whatever is handy (so that you don't have to hold your breath to keep focus). Absolutely aplanatic and achromatic optics. Built-in mirror provides directed light.

Precision Measurements: The M/35 is more than a first-class microscope. It is a precision measuring instrument and features a reticule calibrated to 2/100 mm., with a total scale range of 1 mm.

Illuminated Stage: With the M/35 you receive absolutely free a reversible stage for transmitted and reflected light. Accepts standard laboratory slides or solids of up to 3/4". With this you have the equivalent of an illuminated, measuring laboratory microscope, but with the advantages of portability, ruggedness, and . . . the price: \$26.90 complete!

The AllMikro M/35 is made in Germany by Josef Eschenbach, a leader in optical design. It is guaranteed in every detail. Return it for prompt refund if not pleased.



Observe the remarkable detail of the bee's leg shown reduced one-half! Perfect definition!

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LETTERS

To the Editor

Credit Adjustment

Sir:

On page 181 of the August 1967 issue of SCIENCE NEWS you carried an item under the headline of "Faster Star Measurements." In the third paragraph, reference is made to "Experiments at International Business Machines Corp.'s research center. . . ."

This was a surprising reference to those of us at the Gaertner Scientific Corporation because it was our company and not I.B.M. which conceptually developed and built the two very unique pieces of measuring equipment being used at the Lick Observatory for their "proper motion" program. In May of 1959, the University of California awarded a contract to Gaertner Scientific to design and build two machines—one a "survey" machine and the other a "measuring" machine.

The first of the two units was installed on Mt. Hamilton in 1963. The second which is the measuring machine was installed in late 1966 at the Santa Cruz campus of the University of California at which time the first unit was moved from Mt. Hamilton to the same campus for organizational purposes.

Neither piece of equipment was worked on by I.B.M. The only relationship between this project and I.B.M. lies in the fact that I.B.M. punches and card readers (modified by Gaertner) are employed in conjunction with the overall system.

This very modern measurement system is a "one of a kind," and has been operating perfectly since installation. The program was funded on a fixed price contract let by the University of California under the direction of Dr. S. Vasilevskis. The source of funds was the National Science Foundation. Gaertner Scientific Corporation physicists and engineers deserve the credit (which was erroneously give to I.B.M. in your article), as they did the tremendous job of the multiple problem solving required to provide this most unique equipment.

Robert E. Steinman, President
The Gaertner Scientific Corporation
Chicago, Ill.

Sperm Banks Debated

Sir:

The article, Sperm Banks Debated (SN: 8/29) brings up the point that "it is not probable that deformed children would ever be born to women (see p. 271)



(Continued from p. 268)

participating in such studies." The argument here being that if mutations have occurred, it is probable that either no fertilization will take place, or that the embryo will be aborted.

Maybe so. But if this is true for frozen sperm, why not for "unfrozen" sperm. By and large, any gross genetic damage to or defect in an embryo's cells will cause spontaneous abortion of the embryo. But not always. And many deformed children are born. What's to keep frozen sperm that is defective from following the same "chance" pattern?

Anne E. Carr
New York, N.Y.

Films of The Week

Listing for readers' information of new 16mm and 8mm films on science, engineering, medicine and agriculture for professional, student and general audiences. For further information on purchase, rental or free loan, write to distributor.

BRINE SHRIMP. 16mm, color, silent, 7 min. Development of brine shrimp (*Artemia salina*), a tiny salt lake crustacean, is shown from hatching to adulthood, including larval stages and molting. Activities of the adults are also shown including swimming, action of the appendages, mating, egg laying, and live birth. Close-ups of the head and abdomen demonstrate clearly the differences between male and female. Purchase \$55.00 from Modern Hearing Aids, 1212 Avenue of the Americas, New York, N.Y. 10036.

FROG DEVELOPMENT — FERTILIZATION TO HATCHING. 16mm, color, silent, 12 min. From the naturally laid cluster of eggs a single egg is taken and placed in the small chamber for time-lapse cinemicrography. The egg is seen in side view throughout its development and until it hatches. Then a series of sequences in top view review several episodes in this process. Purchase \$90 from Modern Hearing Aids, 1212 Avenue of the Americas, New York, N.Y. 10036.

FROG DEVELOPMENT — HATCHING THROUGH METAMORPHOSIS. 16mm, color, silent, 9 min. The development of tadpoles from hatching through the change into the adult frog is seen. The sequences especially center on the development during the first week after hatching, the feeding behavior, and many of the changes during metamorphosis. Purchase \$70 from Modern Hearing Aids, 1212 Avenue of Americas, New York, N.Y. 10036.

GAMES PEOPLE PLAY: THE THEORY. 16mm, b&w, sound, 30 min. Dr. Eric Berne, psychiatrist and best-selling author, explains the assumptions on which his theory of transactional analysis is based, and describes the relationship of his method of transactional analysis to the more traditional methods of psychoanalysis. Audience: college and adult groups interested in mental health, psychology, or social adjustment. Purchase \$125 or rental \$5.40 from NET Film Service, Indiana University, Audio-Visual Center, Bloomington, Indiana 47401.

GAMES PEOPLE PLAY: THE PRACTICE. 16mm, b&w, sound, 30 min. Continuation of discussion by Dr. Eric Berne of his theory of transactional analysis, where he explains his use of the terms "game", "script", "ego state", and others, and gives examples of how theory can be used to interpret psychological problems. Audience: college and adult groups interested in mental health, psychology, or social adjustment. Purchase \$125 or rental \$5.40 from NET Film Service, Indiana University, Audio-Visual Center, Bloomington, Indiana 47401.

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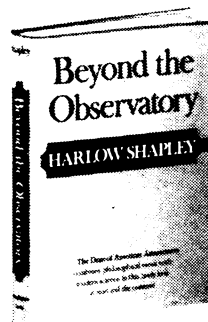


Harlow Shapley

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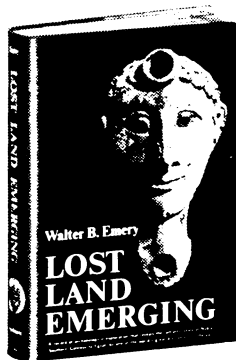
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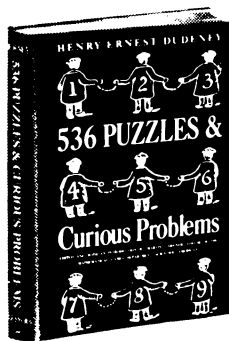
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