



Blind as a . . . ?—Having apparently seen its target, a bat samples its reward.

CHIROPTOLOGY

Bats Aren't Blind as Bats

Just looking around, sugar-loving bats shoot down an old cliché

It is hardly accurate to describe someone who only picks at his food as "eating like a bird," since birds voraciously spend almost all of their waking hours in search of something to eat. "Quiet as a fish" became virtually meaningless with the discovery by oceanographers that undersea creatures actually make a wide variety of surprising noises.

Now another cliché has bitten the dust. Bats, heretofore occupying the pinnacle of the peak of creatures that one could be described as "blind as," can see after all!

Two species of bats, both of which hover like hummingbirds while they eat, were taught at the University of Indiana to associate food—sugar water—with a target of a particular visual shape. The targets were silhouettes projected on an illuminated screen, so the bats' natural radar was no help.

One bat, normally fond of flower nectar, learned that the vials attached to round targets contained sugar water, while vials on rectangular targets held only quinine solution. He picked the right target 83 out of 89 times, then spotted 8 out of 8 round targets when both vials were filled with plain water to disqualify his sense of smell.

Of two fruit-eating bats tested with sugar-water- and quinine-water-laced melon balls, one scored almost 80 percent in picking a three-inch square from a circle of the same area. The other did even better at telling vertical and horizontal stripes apart.

Roderick A. Suthers, assistant professor of anatomy and physiology at the University of Indiana, Bloomington, aided in the project by graduate student Julia Chase, reported the bats' new outlook at a session of the American

Association for the Advancement of Science meeting in Washington.

Though vision in bats varies from species to species, for the most part their eyes are poorly developed. This and their curious, built-in radar are both related to their largely nocturnal habits. An exception is the flying fox, a very large fruit bat not found in the U.S., but which has large, well-developed eyes.

OLYMPICS, ROCKETS U.N. STAMPS

Giant Stamp Collection including: Astronauts, Satellites, Moonrockets, Boy Scout Issue, Complete UN Set, Recent Olympic and Sport issues from many countries etc.; Plus Big Stamp Dictionary and Approvals. Everything 10c

Only **10¢**

STAMPEX, Box 47-RNL, White Plains, N. Y.

RAY GUN! Want to build a Laser?

You can build our Laser and Power Supply for only \$100. The Laser alone can be built for \$40. It is the lowest cost QUALITY LASER system in the United States. Shoots a pencil-thin beam of light, will burn anything in its path in a fraction of a second, even through diamonds! Not a demonstration model, a real industrially-applicable LASER. Blue prints, directions, price and parts lists, only \$9.95 ppd.

M & J INDEPENDENT RESEARCH COMPANY
1607 W. 24th #2, Lawrence, Kansas, 66044

RIBBONS

Award ribbons for Science Fairs and all Scholastic Achievements. Gold-stamped, best quality satin. Rapid delivery. For prices write

RAPID RIBBONS Dept. 17
P. O. Box 222, 107 N. 3rd., Goshen, Ind. 46526

TELLS HOW TO SELL YOUR INVENTION

If you have an invention that you believe has merit, write us at once for copy of copyrighted booklet "How to Go About Selling Your Invention." We work with manufacturers, and booklet reveals present markets, qualities of a saleable invention, current royalty rates being paid by manufacturers. Booklet is FREE, is offered to encourage new ideas we might submit to manufacturers. Just send name (no drawings please) to Keesler Sales Corp., Dept. D-411, Fremont, Ohio 43420

MEMOGENDA

Time Organizer for Busy People

A prominent steel executive once paid \$25,000 for the same basic idea used in the Memogenda. Now it's yours for \$3.00. Avoid confusion of scraps of paper . . . lost opportunities . . . forgotten duties and appointments. Use the Memogenda. Constant survey of work ahead . . . results in working without strain. Checks out complete tasks and builds valuable history of accomplishment. If making proper use of your time means success then Memogenda is a way to success, whatever your goal.

MEMOGENDA is a 96-page book, wire bound in a flexible leather-like covering. The right-hand pages (8 1/2 x 11) have numbered lines, one for each item . . . checked off as completed. Opposite pages are for additional memos. Includes instructions for use, an annual reminder, 3-year calendar, and active telephone list.

PLUS INVESTMENT RECORD

Provides record of purchase and sale of securities . . . profit or loss—long or short term . . . income by quarters. Simplifies preparation of tax returns.

Price \$30 a dozen F.O.B. factory, or send \$3 for sample, postpaid. Start Memogenda habit today. Refund if it isn't your best investment.

KANO LABORATORIES
1010 Thompson Lane, Nashville, Tenn. 37211