

Frog's Eye Sees Only Moving Food

Cambridge, Mass.—(Science Service)—If it is the size of an insect and moves like one, the frog's eye will see it. But the frog seems little concerned with stationary things and will starve to death surrounded by food that does not move.

The frog's eye is a sophisticated information processor and works independently of the light level, a team of researchers at Massachusetts Institute of Technology here have found. It processes a visual scene four ways and sends this processed information along the optic nerve to the frog's brain.

Four Sets of Detectors

The research showed that the retina in the frog's eye is mapped by four sets of detectors:

1. Sustained contrast detectors spot sharp edges of objects lighter or darker than the general background. If the light blinks off, then on, these detectors again perceive the sharp edge.

2. Convexity detectors, considered the most remarkable, spot small moving objects. But if a shadow momentarily falls across the object, the image is erased in the frog's eye until the object moves again. The more the "bug" curves outwardly, such as a hump made by wings, the stronger become impulses from these detectors. Objects lighter in color than the background produce almost no response unless they cast a shadow.

3. Moving edge detectors spot large moving objects. If the object does not move, these detectors ignore it.

4. Net dimming detectors are highly sensitive to changes in light levels. They spot shadows cast by overhead birds.

Outside Human Experience

The research was conducted at M.I.T.'s Research Laboratory of Electronics by Dr. J. Y. Lettvin, H. R. Maturana, W. S. McCulloch and W. H. Pitts.

Dr. Lettvin told Science Service that it is difficult to describe what the frog's brain actually sees, after his eyes process the visual information. Such vision lies outside human experience. He also said it is difficult to say whether human eyes also process the visual scene to extract specialized information. This is because of a lack of knowledge of the actual workings inside the human eye. In the painless experiment on the frog's eye, a delicate electronic probe was used to touch various fibers in a living frog's optic nerve. Signals transmitted along the fibers were displayed electronically on an oscilloscope.

Sterility Linked To Nature's Quirk

London, (Science Service)—Some cases of sterility in men may be due to an inherited condition which causes the organs of the body to be formed on the right side when they are usually on the left and vice versa.

Visceral transposition, as the condition is called, means that the appendix, liver and ascending colon are on the left, and the stomach, spleen and descending colon are on the right. This is just the opposite of the usual placement. The heart also works backwards, sending signals from a pacemaker on the left instead of the right.

Studies by Danish scientist E. Arge, reported in The Lancet, showed that in one family tree all the married men had children except those with visceral transposition. Wives of two of these men were past childbearing age, and the husbands would not submit to examination for sterility. However, in the third case, the wife had had two children by a previous marriage and the husband accepted examination.

Tests revealed that fertility of this man was much below normal. Sperm became inactive sooner and lived a shorter life than usual; 47 percent had abnormal head shapes.

There was one case of visceral transposition in one of the women in the family. However, she had one child.

New York—The earth's air above one square inch of surface at sea level has a normal weight of 15 pounds, according to scientific calculations.

Communist China has oil fields in the province of Kansu and in south Manchuria.

MAIL TRIBUNE, Medford, Or. 2
Thursday, March 17, 1960 8

LEGAL NOTICES

ADVERTISEMENT FOR BIDS
SEALED PROPOSALS ARE INVITED and will be received at the office of the City Auditor of the City of Grants Pass, Josephine County, Oregon, to and until the hour of 2:00 o'clock p.m. March 28, 1960, for the construction of 19,000 feet of curb and gutters and 1,620 lin. feet of sidewalk and 16 driveway approaches, as authorized by Ordinances adopted by the Common Council and approved by the Mayor, and the plans and specifications prepared by the City Engineer, which Ordinances, plans and specifications are on file and may be examined at the office of the City Manager at the City Hall, Grants Pass, Oregon, and to which reference is hereby made.

Copies of the plans, specifications, instructions to bidders, approximate quantities, may be obtained upon receipt of Ten (\$10.00) Dollars, which will be refunded in case a bona fide bid is made and the plans and specifications are returned in good condition.

Bids must be sealed and directed to the City Auditor of the City of Grants Pass, Oregon, and marked "Sealed Proposal for Street Improvements" and must be properly signed by the person making such bid. All bids must be accompanied by a bid bond or certified check in the sum of ten (10%) per cent of the amount bid as a guarantee that the bidder will enter into a contract if award is made to him.

All bids must state the time in which all the work shall be completed. The successful bidder shall, before entering upon his duties, furnish a good and sufficient bond in favor of the City of Grants Pass, in not less than One Hundred (100%) per cent of the Contract Price, with surety to be approved by the Common Council.

The Common Council reserves the right to reject any and all bids. The Contract will be awarded to the lowest responsible bidder, subject to the limitations and conditions herein and in said Ordinances contained.

All bids will be opened and published by the City Auditor at 2:00 p.m. March 28, 1960. The City Manager will prepare a tabulation of the bids and submit said tabulation and his recommendation for award of contract to the Common Council at its next regular or special meeting. The Common Council will authorize award of contract.

NOTICE
No. 10739
IN THE CIRCUIT COURT OF THE STATE OF OREGON FOR JACKSON COUNTY
IN THE MATTER OF THE ESTATE OF OLIVE ALBERTA HELL, Deceased.

NOTICE is hereby given that the Circuit Court of the State of Oregon for the County of Jackson has appointed the undersigned executrix of the last will and testament and estate of Olive Alberta Hell and the undersigned has qualified as such executrix and all parties having any claims against said estate are to present them, properly verified, with vouchers attached, to the executrix at the office of Chas. W. Reamer, attorney for executrix, 411 Medical Center Bldg., Medford, Oregon, within six months from the date hereof. Dated and first published this 3rd day of March, 1960.

JOYCE E. DIXON
Administratrix of the Estate of Maurice Imhausen, Deceased.
L. L. Sawyer
Attorneys for Administratrix

NOTICE OF FINAL ACCOUNT
IN THE CIRCUIT COURT OF THE STATE OF OREGON FOR THE COUNTY OF JACKSON
Probate Department
In the Estate of the Estate of MARGARET MARTHA HAMILTON, Deceased.

Notice is hereby given that the Final Account of Homer Jeffries, as Executor of the above-named estate, has been filed herein and that 1:30 o'clock p.m. on March 25, 1960, in the Courtroom of the above Court in the Courthouse in Medford, Oregon, has been appointed as the time and place for hearing objections to such Final Account and settlement thereof. Dated and first published February 25, 1960.

Homer Jeffries, Executor
Van Dyke, Dellenback & McGowan
Attorneys for Executor

TIMBER FOR SALE, UNITED STATES DEPARTMENT OF LAND MANAGEMENT, ORAL AUCTION
BIDS as hereinafter designated will be received by the District Manager, Bureau of Land Management, BLM Warehouse, Armory Drive, Medford, Oregon, (Mailing address—P. O. Box 1106, Medford, Oregon), at 10:00 A.M. PACIFIC STANDARD TIME, on Thursday, March 24, 1960, for all timber marked or designated for cutting. Before bids are submitted full information concerning the timber, the conditions of sale and submission of bids should be obtained from the above District Manager. The right is hereby reserved to waive technical defects in this advertisement and to reject any or all bids. The United States reserves the right to waive any informality in bids received whenever such waiver is in the interest of the United States. IN JACKSON COUNTY, OREGON: O&C and PUBLIC DOMAIN. All timber designated for cutting on SW 1/4 Section 31, T. 32 S., R. 2 E., and Lot 4, SW 1/4 NW 1/4 Section 4, Lots 1 and 2, S 1/2 NE 1/4 NW 1/4 Section 5, T. 32 S., R. 2 E., W.M., estimated for the purpose of this sale to be 3,885 M bd. ft. Douglas-fir, 3 M bd. ft. ponderosa pine, 68 M bd. ft. sugar pine, 104 M bd. ft. incense-cedar and 1,054 M bd. ft. white fir. No bid for less than \$20.40 per M bd. ft. for the Douglas-fir, \$49.33 per M bd. ft. for the ponderosa pine, \$37.90 per M bd. ft. for the sugar pine, \$10.53 per M bd. ft. for the incense-cedar, \$13.30 per M bd. ft. for the white fir, or a total purchase price of \$127,129.75 will be considered. Minimum deposit with bid \$12,800.00.

Most hail storms occur during afternoon and evening.

it's SAINT PATRICK'S DAY
a DAY to... SAVE!
...and at
OK MARKET
You Save EXTRA
WITH
SILVER DOLLAR STAMPS!

Open Every Day 8 Till Midnight

Shank Half or Whole
HAM
49¢ lb.
Lean Tasty

LIVER STEER BEEF **39¢ lb.**
BONELESS SWIFT
CORNEED BEEF **69¢ lb.**
Fryers **\$1.19** Each
OK's Famous 2 1/2 to 3 1/2 lb. Average
FRESH—NO CHEMICALS USED

Celery Large Bunches **19¢ Bunch**
Stock Up!
TOMATOES NICE SLICERS **29¢ lb.**

SNOBOY. SPUDS
Spud Spike, Premium Offer in Bag
10 Lb. Bag
79¢
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EGGS
MARCH IS EGG MONTH!
Grade AA Small **2 Doz. 75¢**
25¢ CASH in every pound
New at OK
BUTTERNUT COIN COFFEE
25c in 1-lb. Cans
50c in 2-lb. Cans

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CHICKEN RAVIOLI IXL BRAND 300 SIZE **5 FOR \$1.00**
Lasagne IXL Brand 40-oz. **59¢**

Apple Juice Hi Country—46-oz. Can **3 FOR \$1.00**
Spaghetti and MEAT BALLS Dennison's 300 Size **5 FOR \$1.00**
For Delicious LENTEN MEALS
M-J-B RICE SPECIAL Family Size 2 lb. 10 oz.
Long Grain **49¢**
Quick White **39¢**
Quick Brown **35¢**
GET ALL 3!

BETTER PRODUCE BUYS
Celery Large Bunches **19¢ Bunch**
STOCK UP!
TOMATOES NICE SLICERS **29¢ lb.**
LETTUCE **2 Heads 19¢**
OK Super Market
OPEN TILL MIDNIGHT
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Unique Natural conditions provide Year-Round GREEN GRASS pastures for Tillamook cows, giving TILLAMOOK its distinctive, PRIZE-WINNING FLAVOR with NATURAL Protein, Vitamins, Minerals and Lecithin, too!

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TWO AGES—Available in Many Packages
MEDIUM—mild but well-flavored SHARP—well-aged lots of flavor
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DISH-OF-THE-MONTH
MEAL-IN-ONE OMELET
3/4 lb. Tillamook, grated 6 eggs, beaten
3/4 C. milk
Salt, pepper to taste
1 can undiluted veg. soup
2 1/2-oz. cans shrimp or peas
Beat eggs, milk, seasonings. Cook over med. heat in 1-lb. or 2 med.-size skillets. When almost set, add soup, shrimp and Tillamook. Brown under broiler. Fold over and cut into 4 servings.