

Bees Paralyzed By Sound Waves Of High Intensity

By DELOS SMITH
United Press Science Editor
NEW YORK (UP)—Scientists have learned a little more about honey bees, but this little may be all that's needed for anyone to play safely with the fascinating if dangerous little creatures.

The new knowledge is that when a bee hive is caught in sound waves of certain frequencies of high intensity, every bee in the hive stops whatever it is doing and stands still. While the noise continues, you can put your naked hands into the hive without the least worry—the bees seem paralyzed.

An odd thing is that sound waves below or above those frequencies or of lesser intensity, do nothing to the bees. They seem to ignore those waves and with undiminished energy hasten to defend the home-hive against any and all threats.

Sound Waves Felt
Hubert Frings and Franklin Little of Pennsylvania State University, who acquired this information through careful experimentation, thought the bees felt the sound waves in their legs rather than heard them. So far as is known, bees don't hear in the sense that we hear, but it has been known since the days of the ancient Greeks that sounds mean things to them.

For instance, the old Greeks knew honey bees themselves made sounds while doing certain things. Since no activity of the bee represents waste, those sounds must mean things to other bees. Bee scientists have never ceased to argue over what those things might be.

Frings and Little put their sound oscillators either against or close to the hives, so that the vibrations of sound waves actually vibrated the hive. They noticed throughout that bees outside the hive and bees in the entrance, seemed to be entirely unaffected. Frequencies beginning at 300 cycles per second and upward to 1,000 cycles at intensities between 107 and 116 decibels, made the bees stand still. "The quiescence of the bees was so complete," they said in their report to the American Association for the Advancement of Science, "that a beekeeper could safely open the hive and carry out routine servicing."

Equipment Expensive
They experimented first with bees in experimental hives which had glass sides so they could see what was going on within. Switching to standard hives, they found no differences in what happened. They repeated the experiments over several months with the same group of bees and found that the bees didn't stop reacting. Their sound-making equipment was expensive, as it has to be when frequencies and intensities can be varied and precisely controlled. Therefore, it hardly would pay to buy it merely to use it on bees. Professional beekeepers now use smoke to make bees lazy and harmless, but that requires skill and trouble. The scientists suggested that inexpensive vibrators could be attached to hives and might work as well. However, nearby human ears would have to be plugged—sounds of such frequencies and intensities are most unpleasant.

SMOKE-FILLED POOLROOMS
STANTON, Calif. (UP)—The city no longer will be run from a pool table. The City Council, which has been meeting for a year around a pool table in temporary quarters at the fire house, has leased facilities for city offices.

Call Sparks Bomb Hunt

PORTLAND (UP)—An anonymous call to newspaper offices in Honolulu Saturday night stating that there was a bomb aboard a Northwest Airlines plane brought police, federal agents and government inspectors swarming into the Portland International airport here yesterday.

No bomb was found on the Douglas DC6B which had left Honolulu at 7 p.m. Saturday. It was allowed to proceed to Seattle. It was one of the three planes which was enroute to the United States when the telephone call was made.

According to a Northwest Airline spokesman, the anonymous caller said there was a bomb aboard a plane bound for the United States. Two of three planes enroute to U.S. were ordered back to Honolulu.

The other plane on flight No. 572 was nearer Portland and was allowed to continue to Portland International airport where it was searched.

The 60 passengers in the plane were not told of the bomb threat.

OFF ON HONEYMOON
NEW YORK (UP)—Gov. Robert B. Meyner and New Jersey's new first lady, the former Helen Stevenson, fly to the British West Indies today for their honeymoon.

Meyner, 48, and his 28-year-old bride were married Saturday in Oberlin, Ohio. They met last May when he spoke to a Democratic mock convention at Oberlin College.

The Italians invented a two-wheel seeder more than 350 years ago.

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Police Arrest Crescent Man

Raymond B. Riddell, 34, of Crescent, was arrested last night by city police on the charge of operating a motor vehicle while under the influence of liquor.

The arresting officer reported that Riddell was speeding in Greenwood avenue, driving erratically. The officer followed Riddell onto Highway 20 and made the arrest one mile north of the junction with the Alfalfa road.

Richard S. Schuck, of Sherwood,

was fined \$135 by Judge Alvin J. Gray on Saturday for driving while intoxicated. His license was suspended for 90 days. Judge Gray also fined Alcyus Shine \$20 for intoxication.

A number of new "highway hotels" now offer convenient luxury accommodations to week-end skiers and mid-winter tourists in the White Mountains of New Hampshire.

APPOINTMENT MADE Special to The Bulletin

MADRAS — Adrian Smith, appointed secretary of the Jefferson county fair board to succeed Russell Sumner at the January 8 meeting of the board, announced this week that the board will meet Tuesday, February 4. Plans are being set up for a contest to choose a theme for the 1957 fair, with Mrs. Leo Bicart and Glenn Eidemiller Jr. named to a committee. A third committee member will be chosen from the Junior ODO club.

Annual Meeting Set January 29 By Credit Group

Special to The Bulletin
REDMOND — The 23rd annual meeting of Central Oregon Production Credit Association will start at 11 a.m. Tuesday, January 29 in Redmond armory.

Paul F. Matson, president of the Federal Intermediate Credit bank of Spokane, will be the speaker. Millard Rodman of Culver, vice-president of the COPCA, will preside at the business meeting to

follow the noon dinner. The terms of Rodman and chairman N. L. Weigand, Powell Butte, are expiring. Two directors will be elected to succeed them. Hold-over directors are H. W. Steelhammer, Powell Butte; Ray Knowles, Redmond; and Phillip D. Clowers, Madras.

According to secretary William C. Hays, upwards of 350 farmers and ranchers from Crook, Deschutes, Jefferson and Harney counties are expected to attend. Registration will be at 11 a.m., dinner at noon served by women of Redmond grange, and adjournment is expected by 3 p.m.

New Hampshire's Winnepesaukee Ski Club, at Gilford, will sponsor the 1957 North American championship tests in jumping, cross-country and combined on March 4-10.

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MEAT BALLS 1 1/2-oz. tin **40c**
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MINCED CLAMS 7 1/2-oz. tin **31c**
Snow's finest Quality

DRESSING 8-oz. Btl. **59c**
Duncan Hines Roquefort

KARO SYRUP 1 1/2-lb. Btl. **26c**
Red Label

CLEANSER Giant 2 1/2-oz. tin **2/37**
Ajax "Foaming Action"

Mrs. Wright's Bread Save 2c on each loaf of White or Whole Wheat large loaf **28c**

Lucerne 3.8% Milk Richer "Bonus Quality" Regular or Homogenized Qt. **25c**

Circus Nuts Spanish Peanuts 7 1/2-oz. tin **39c** Whole Cashews 6 1/2-oz. tin **89c**

HILLS BROS. Coffee 1-lb. Tin **\$1.09** 2-lb. Tin **\$2.17**

Starch Lint Brand 12-oz. pkg. **15c**

Liquid Lux Mild on Your Hands 22-oz. can **71c**

BUTTERMILK Vernel 7-oz. pkg. **29c**

NESTLE MORSELS semi-sweet 12-oz. pkg. **41c**

TUNA FISH Star Kist, chunk No. 1/2 can **31c**

HAWAIIAN PUNCH fruit drink 46oz. can **39c**

STEAK SAUCE Shady Oak, with mushrooms 5 1/2-oz. can **10c**

DILL PICKLES Columbia, Kosher 32-oz. jar **39c**

SODA CRACKERS NBC Snow-flakes 1-lb. pkg. **29c**

HI HO CRACKERS Sunshine brand 1-lb. pkg. **37c**

PINEAPPLE Dole, frozen chunks No. 211 can **29c**

PINEAPPLE JUICE Dole, frozen 6-oz. can **17c**

NOB HILL COFFEE 1-lb. Bag **\$1.02** 2-lb. Bag **\$2.03**

AIRWAY COFFEE 1-lb. Bag **95c** 2-lb. Bag **\$1.89**

EDWARDS COFFEE 1-lb. Bag **\$1.07** 2-lb. Bag **\$2.13**

WRISLEY SOAP Save 5c 8 reg. bars **59c**

BEETS OR CARROTS 303 tin **10c**
Marion Diced

BABO CLEANSER 14-oz. tin **13c**
Save 3c on each

TOILET SOAP 3 reg. bars **29c**
Palmolive Complexion Soap

LUX FLAKES 12 1/2-oz. pkg. **35c**
Cleans clothes whiter.

VEL DETERGENT 37 1/2-oz. pkg. **73c**
Save 10c each

FELS NAPHTHA 53-oz. pkg. **83c**
Quicker, easier washes

SURF 50-oz. pkg. **71c**
Save 12c on each giant pkg.

QUICK STARCH 12-oz. pkg. **15c**
Quick Elastic brand

TOILET TISSUE 4-roll pkg. **45c**
Famous MD Brand

PAPER NAPKINS pkg. of 80 **2/25c**
MD — Soft, strong

DOG FOOD Red Heart Brand can **15c**

CAT FOOD Kitty Brand 15-oz. can **10c**

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LETTUCE Tender Leafy Heads. lb. **17c**

GRAPEFRUIT Texas Red Ruby 5 lb. Bag **49c**

CELERY Tender, Firm Stalks lb. **19c**

CAULIFLOWER Firm, crisp heads lb. **19c**

BRUSSELS SPROUTS Flavorful 12-oz. pkg. **29c**

PARSNIPS The Finest lb. **12 1/2c**

DATES California — Tree Ripened 2-lb. pkg. **49c**

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SLICED BACON Standard Pack lb. **59c**

FISH STICKS Captain's Choice ea. **39c**

SANDWICH SPREAD

Somerset Finest ea. **19c**



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