

Research Review

Animal Behavior Studied

By KAY MILLS

Groundhogs—whether they saw their shadows Feb. 2 or not—are part of studies conducted here on the ways that social behavior affects the numbers of wild animals.

Using groundhogs as an example of study aims, Dr. David E. Davis, professor of zoology, explained that these animals are very aggressive when they come out of hibernation.

THE GROUNDHOGS mate in the spring and toward fall when they hibernate again become less and less aggressive, Davis said. This change in social behavior is paralleled by a change in the groundhog's adrenal glands, he added.

As a result of this fighting, certain hormones—corticoid—are produced by the animal's adrenals and affect the groundhog's use of fat, he said.

Davis explained that a groundhog is quite fat when it comes out of hibernation. As corticoid production increases, fat use also increases and the animal gets thinner. Then in August the hormones decrease and the groundhog puts on weight until it returns to hibernation, he added.

"THE CORE OF THE matter is that the aggressive behavior affects the adrenals and thus the welfare of the individual groundhog. What affects the individual will also affect the number of

offspring produced. Also, aggressive animals will survive while others less aggressive will not.

"We have excellent opportunities to study wild animals because nearby there are state game lands, a state forest and the University farm. Our projects then can generally combine field and laboratory work."

The kitchen where meals were once prepared for McAllister Hall residents has been converted into a lab for these research projects. Food storage rooms in the basement have also been made into a virology lab.

ONE OF THE studies attempts to determine what controls fighting behavior in birds. Using starlings, the researchers have found that a certain hormone is responsible for the birds' aggressive behavior, Davis said.

"We also check the age composition of deer at the Army Ordnance Depot at Chambersburg," Davis said. "We determine how many deer comprise various age groups and then recommend how many deer should be harvested each year."

"These recommendations are used in setting hunting quotas."

IN ADDITION TO sportsmen, these projects touch people in game management, scientists interested in the control of various virus diseases and researchers exploring heart diseases, he said. The latter group can benefit from studies on the woodchuck, which

has arteriosclerosis, or thickening and hardening of the arteries, he added.

Davis' laboratory has also received the pigeons which were unwelcome in other campus buildings because of the disturbance they caused. The birds have appeared in and around Old Main, the Armory, Carnegie and Walker Lab. The Department of Maintenance and Utilities has turned over to Davis any it could corral. The pigeons are now helping in studies on chemical control of reproduction.

Schilling Will Conduct Grad Study Discussion

A Conference on Graduate Study will be sponsored from 2 to 4:30 p.m. Sunday in the Hetzel Union ballroom by Mortar Board, senior women's hat society.

Harol K. Schilling, dean of the Graduate School will discuss several phases of graduate study such as who should apply, how to choose a graduate school and the demands of graduate study. Following his talk, small discussion groups will be led by graduate faculty members.

State College Choral Society Will Present Bach Program

Johann Sebastian Bach's "The Passion According to St. John" will be presented by the State College Choral Society at 8 p.m. Sunday in the State College High School auditorium.

Four professional singers will appear as soloists at the concert, directed by Raymond H. Brown, associate professor of music.

WALTER CARRINGER, tenor, will portray the role of St. John. Carrington has made several records as soloist with the Robert Shaw Chorale. In 1959 he was chosen to sing with the Experimental Opera Theatre under the auspices of the New Orleans Opera Company.

Jack Davison, bass-baritone, will play the role of Simon Peter. Davison has sung principal roles

Beckett, Shaw Plays Set 'In the Round'

By JOAN HARTMAN and DONNAN BEESON

A sandpapered suit, an original composition and a theater in the round are all part of the Players' forthcoming production of Samuel Beckett's "Krapp's Last Tape" and Bernard Shaw's "Man of Destiny," scheduled to open at 8 p.m. tomorrow at Center Stage.

"We sandpapered the suit in order to get it crusty-looking," Valerie Golde, costume director, said. "It is to be worn by a man who lived a long and eventful life and has now reached a stage of degeneration," she added.

The suit was also sprayed with black paint to achieve a more worn look and then was cut with razor blades, Miss Golde added.

THE SOLE character in "Krapp's Last Tape" will wear this suit. One each of his birthdays, he has made a tape recording and now that he is approaching death, he relives his life through these tapes. The part is played by Harry Kunesch, graduate student

in theatre arts from Bridgeport, Conn.

An original composition for the piano, written by Royal Brown, senior in the arts from Ogontz Center, will be played for the overture to the Beckett play.

Kunesch will utilize only a small portion of the stage during his performance, and different lighting effects will be used to indicate phases in his life.

"The mood of 'Man of Destiny' will be set mainly by lighting," Beverly Kimes, stage manager said.

BOTH PLAYS will be performed "in the round." The audience will be seated in a circle around the stage. Long strips of colored blinds will hang behind the audience in order to make the area smaller.

"Man of Destiny," written in 1895, is a comedy depicting Shaw's concept of the young Napoleon Bonaparte in his early campaigns. The action takes place in a small Italian inn.

Written in 1958, "Krapp's Last Tape" presents an entirely different concept of man than does the Shaw play, Warren Smith, director of both plays said. Whereas Shaw is basically hopeful, the man in "Krapp's Last Tape" loses this optimism early in life, he added.

Smith will be available for discussion of the two plays after the performances on Friday nights. These discussions will be held in the lobby of Center Stage. He said he expected to hear more reaction to the Beckett play than the Shaw production.

"THE TALKS WILL be very informal, and anyone who wishes to participate is welcome, especially students," Smith added.

The plays will run every Friday and Saturday through May 19, with the exception of Easter weekend.

Tickets are now on sale at the Hetzel Union desk. Prices are \$1 for Friday night performances and \$1.25 for the Saturday night shows.

National Science Foundation Awards Fellowships to 11 Graduate Students

The National Science Foundation has awarded summer fellowships for 1962 to 11 graduate student teaching assistants.

The fellowships, among a total of 868 awarded by the foundation, pay the recipient a weekly stipend of \$75 for 10 to 12 weeks during the summer with tuition paid by the foundation. This enables a student who has been a teaching assistant to devote his full time to graduate study during the summer.

Students chosen for the 1962 Summer Fellowships are: Kenneth Magill, in mathematics from

Duncansville; Samuel Shore, in mathematics from McClure; Joseph Cima, in mathematics from State College; Michael DerSarkisian, in physics from State College; James Beidleman, in mathematics from Wilkes-Barre; David Hart, in chemistry from Franklin, Ill.; Martha Young, in chemistry from Rockmart, Ga.; Margaret Sevka, in zoology from Endicott, N.Y.; Garth Tingey, in chemistry from Springville, Utah; Gilbert Brenner, in geology from Bronx, N.Y.; and George Hess, in chemistry from Collingswood, N.J.

RADIO-PHONO SERVICE

delivery & pick-up **AD 8-6021**

HOTSC TELEVISION SERVICE CENTER
232 S. Allen St.

HERLOCHER'S SUPPER SPECIAL \$1.15

1/4 lg. Bar-B-Que'd Chicken
Choice of Salad & Soft Drink
Choice of Apple Pie or Cheese Cake

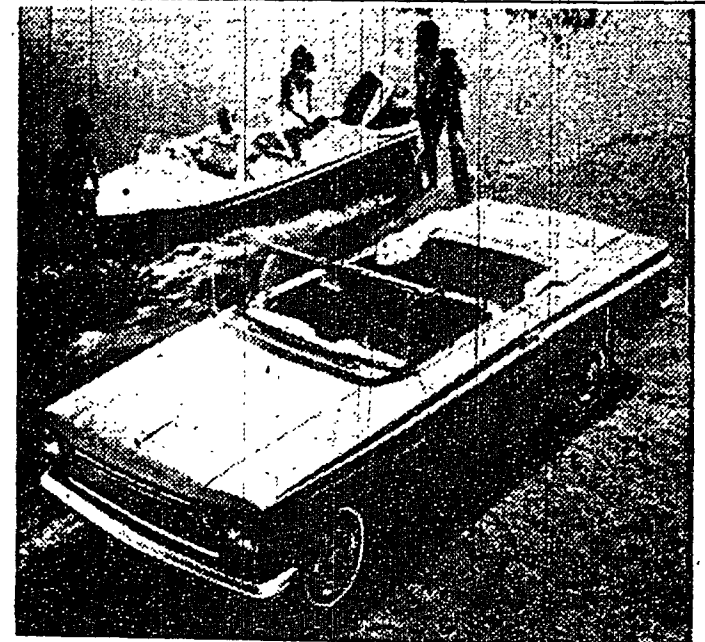
Served Tues., Thurs., Sat. 4:30-7 P.M.
Call AD 8-0518 Delivery After 4:30

THE RECORD ROOM \$ \$ brings You savings during RCA VICTOR DISCOUNT DAYS

- Buy 1 RCA Victor LP — Get \$1.00 off.
- Buy 2 RCA Victor LPs — Get the 3rd for \$1.00
- Buy 3 RCA Victor LPs — Get the 4th free
- Buy 5 or more LPs — Get 30% discount

THE RECORD ROOM
350 E. College Ave.

Open noon till nine Monday thru Friday
10 a.m. to 9 p.m. on Saturdays



The Top Flips Automatically
(and so will you)

You'll keep out of the rain without strain in this handsome Rambler convertible. The top flips up or down automatically—yet the Rambler American "400" is the lowest priced U. S. convertible. Even lower priced than manual top jobs. Bucket seats, optional. Your Rambler is so stingy with gas you won't believe it's such a tiger for performance—until you try it... at your Rambler dealer's.

RAMBLER
World standard of compact car excellence