

Flipse Studies Atomic Cows; Uses Radio-Active Isotopes

By DIANE DIECK

The Atomic Energy Commission is subsidizing a non-defense project, utilizing radio-active isotopes in the study of bovine sperm cell metabolism, at the Dairy Breeding Research Center.

Dr. Robert J. Flipse, director of the project, is the only researcher in the country using radio-active isotopes in this experimentation. He has been awarded a one-year grant of \$3800 by the AEC to continue his studies.

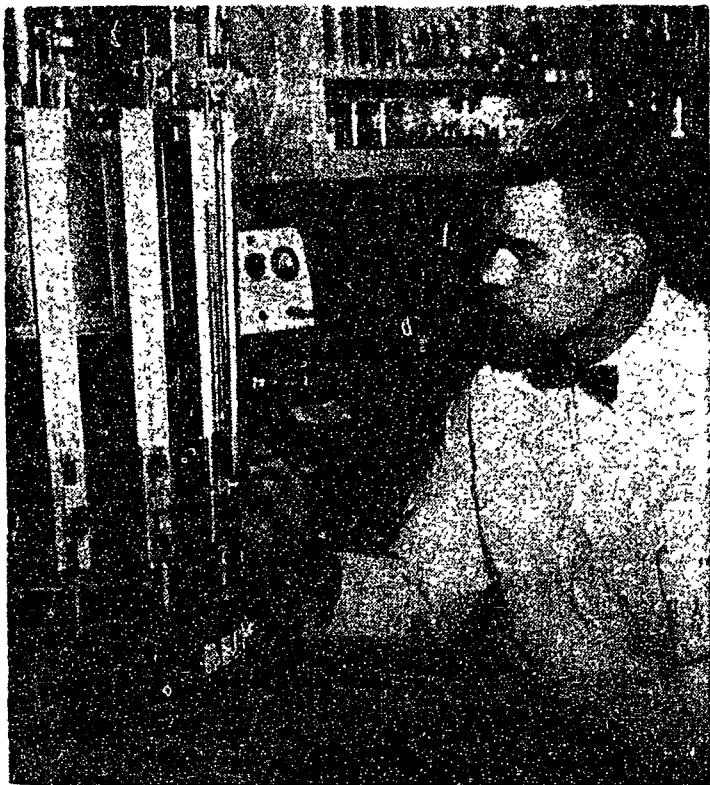
The objective of this long-term research is the development of improvements in the semen diluters used in artificial breeding to retard the metabolic processes of the sperm cell during storage.

"Diluters have already been perfected to the point that semen may be used for artificial breeding several days after collection from the bull, but even more efficient use of semen can be made when longer storage periods are possible," Flipse explained.

Thirty bulls, ranging in age from eight months to nine years, are the subjects for the tests. Valued at approximately \$180,000, the 27 Holsteins and three Guernseys are housed in box stalls in a modern barn which includes an operating room and laboratory.

The laboratory work for this project is conducted in the basement of the Dairy Research Breeding Center, one-and-a-half miles northeast of the Hessel Union Building.

Substances such as glucose, fructose, glycerol, glycine, acetate,



—Collegian Photo by Bob Thompson
DR. ROBERT FLIPSE checks readings on a respirometer in his experiments with radioactive isotopes in dairy science production.

lactate and citrate which are utilized by the sperm cells are inoculated with radioactive carbon 14 isotopes.

The progress of these tracer isotopes is followed with a geiger counter. This enables researchers to determine whether the particular substance has actually entered into the cell's metabolism.

Knowledge of the mechanism of these processes leads toward development of diluters used for altering the rate of the cell metabolism.

Two graduate students in dairy science, George Howe, Brattleboro, Vt., and Richard Anderson, Seattle, Wash., are also working on the project.

Pledges Nominated For Jr. IFC Officers

Six fraternity pledges were nominated for the Junior Interfraternity Council presidency at the group's organizational meeting Monday night.

Further nominations will be accepted Oct. 13, and elections will be held Oct. 21. Seven nominations were accepted for vice president and four pledges were nominated for the secretary-treasurer's post.

The initial meeting was well attended by both official representatives and other pledges, Charles E. Hughes, IFC secretary-treasurer and Jr. IFC adviser, said.

All but four fraternities were represented at the meeting, Hughes said. The group displayed good spirit, and considerable time was spent in discussing the plans, purposes and constitution of the Jr. IFC, he added.

A list of the present nominees will be sent to all fraternities Oct. 6 and a complete list of the nominations will be sent to the fraternity presidents Oct. 15. The officers will be installed at the Oct. 27 meeting of the group.

Nominated for president were Richard Elnicki, Delta Upsilon; Frederick Phelps, Phi Kappa Tau; Stephen Brown, Tau Kappa Epsilon; Jon Lang, Beta Theta Pi;

Donald Schwartz, Zeta Beta Tau; and William Grimm, Pi Kappa Phi.

Nominated for vice president were Arnold Fust, Delta Chi; Albion Bindley, Sigma Pi; Gary Kaplan, Alpha Epsilon Pi; Jerome Scott, Phi Gamma Delta; Robert Petruska, Pi Lambda Phi; David Wahl, Theta Delta Chi; and Robert Phelin, Phi Delta Theta.

John Zerby, Theta Chi; John Bachkosky, Phi Kappa; Chester Lucido, Phi Kappa Psi; and Wayne Kline, Sigma Tau Gamma, were nominated for secretary-treasurer.

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Young Republicans to Meet

The Young Republicans will meet at 7 tonight in 202 Willard.

Production Crews Selected For 'Entertainment U.S.A.'

The cast has been named for the Thespians' production of a musical comedy review, "Entertainment U.S.A.," which will run Oct. 9, 10 and 11 in Schwab Auditorium.

The main character, Phineus, will be played by Ted Pauloski. Phineus is a contestant on a TV quiz show, "Your Ignorance is Our Bliss" (a take-off on Truth or Consequences). He misses his question and is sent to get various items which he has to bring back to the show.

Other cast members in order of their appearance are:

Act 1, Scene 1, The Quiz Show—Jan Burkett as the announcer, Steve Fishbein as Art Lunklitter,

Elaine Goodman as Griselda Grisley and Clayton Saverceol as J. P. Smirdakoff.

Scene 2, The Barbershop—The Penn Statesmen with Donald Morgenson, 1st tenor; Dennis Sherk, 2d tenor; Donald Hild, baritone; and Jack Kapitanoff, bass.

Scene 3, Shakespeare—Ed Scherlis as the director, Bert Deckert as Romeo, Patricia Greso as Juliet, Bud Roberts as Lord Capulet, Alice O'Donnell as Lady Capulet, Bonnie Potts as the Princess and Dorothy Ostwind as the manager.

Scene 4, The Secret of Rock 'n Roll—Robert Piccone as Norm Roll—Robert Piccone as Norm Roll—Robert Piccone as Norm Roll. (Continued on page eight)

AIM Recommends Pro for Freshman

Association of Independent Men Judicial Board of Review has recommended that a first semester freshman who stole two pizzas from a Home Delivery truck be placed on both disciplinary and judicial probation.

The freshman, enrolled in Division of Counseling, was also drinking beer in his room on the third floor of Hamilton Hall with an overnight guest whom he had not registered with the Department of Housing.

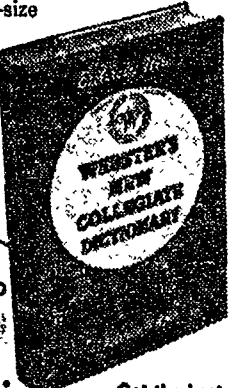
The Senate subcommittee on discipline upheld the board's recommendation.

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