Atomic Reactor Aids Research

A variation of "the ol' swimmin' hole" and modern numited in the nuclear reactor united in the nuclear reactor here to provide facilities for University research.

be placed in an aluminum cylinder, lowered into the pool next to the reactor core and bombarded with neutrons.

(The reactor core is submerged in 25 feet of water in the "swimming pool." A bluish aura surnounds the narrow aluminum-clad uranium fuel elements. Neutrons from an outside source can penetrate the aluminum and start the

The reactor, located east of Pol-lock and South Halls, is patterned son said, the reaction is "self-sus-after the first swimming pool re-actor at the Oak Ridge National Laboratory.

Solid materials for bombard-raised to the surface.

Robinson added that the reactor Laboratory.

It is a source of neutrons and gamma rays for use in research programs of University and in-dustrial personnel, Gordon Rob-

added.

The College of Chemistry and meet market demands. Physics is the largest user of the Should there be any radio-

• A scientist may want to study a certain process, as in a recent study on fat distribution in swine to meet consumer demands for

ment are placed in polythylene tubes and submerged.

radioactive, Robinson said.

Gamma rays are emitted as excess energy by the reaction, he added.

experiment was to enable the swine producer to control fat produces energy by the reaction, he aleaner, more uniform product to

reactor, which went into opera-active waste after the experiment tion in 1955. The first experi- is completed, Robinson added, it menters to make use of it were is encased in concrete and buried from the College of Agriculture, either here or sent to Oak Ridge,

The reactor can be used in a Tenn., for disposal.

number of ways, Robinson said: The "swimming pool" concept provides water to protect against harmful radioactivity, to cool the reactor, and to slow the neutrons in their path both within and out from the re-•In this case, chlorine, to be actor, he said. The water is a used as a tracer in the fat, could deep blue color because it is so

IFC Sing--

lexico, Nov. 2 and 3. University Symphony Orchestra; He will discuss modern advances Frank Morris, member of the

The reactor, located east of Pol-trate the alumnium and start the underwater until its radioactivity vacation.

The Political Robinston of the Political Rob

Walker Discusses Recess With Fry

President Eric A. Walker told Independent Men's Council, yes-dents should keep all after-game celebrations "reasonable."

that the University Senate would help

Walker said that the three exwere not a mistake but were game last week," Juba said. Robinson added that the reactor added for a period of transition

inson, staff member, said.

The neutrons are given off from the fission of uranium 235 atoms, a reaction resulting in an excess of several neutrons which can in turn make certain other materials of the materials of several neutrons which can in turn make certain other materials of several neutrons which can in turn make certain other materials of several neutrons which can in turn make certain other materials of this particular operation. The staff has also done work cerning the recess. The council to his office by TIM council conjugates were not enough to say the staff has also done work cerning the recess. The council this own lab for study, Robinson with HRB-Singer, the Bell Telephone that the University Senate approve the extention of the vacation to include Nov. 24 and 25.

BEAT CALIFORNIA

Calm Celebrations Requested by Juba

The State College Police De-Robert Fry, president of the Town partment said yesterday that stu-

> Because of the large crowd expected for the Homecoming football game today, John R. Juba, chief of police, asked students to keeping celebrations by

The Police Department appreciated the behavior and cooperation water to a lead container and then tra days in the fall term calendar of students after the Syracuse

tubes and submerged.

When the radiochlorine was removed, the scientist could then students. Foreign students are study it at the reactor or, if properties in reactor operation.

The staff has also done work cerning the recess. The council was any problem." he added.

Executives Will Hear

Rocco Carzo, Jr., associate general effects, musical blend, diction, interpretation and phrasdress top management executives of the Centre de Productividad lege music teacher; Mrs. Louis de Monterrey in Monterrey, Maraffie, assistant director of the University Symphony Orghastra

made in organization theory and Thespian Board of Control; and research and will illustrate how William B. Merrel, associate prothese concepts may be applied in fessor of music at Juniata Colactual practicing organizations. Ilege, judged group competition.

(Continued from page one)



Casually yours...

The Authentic Arrow button-down shirt has a perennial appeal to the discerning college man. This University Fashion favorite has the famous Arrow contour tailoring for a slim, trim, tapered waistline.

In basket weave striped oxford and solid colors of your choice. See your Arrow Retailer.

\$5.00 and up

"Cum Laude Collection"

LIKE TO SKATE?

Penn State Figure Skating Club



offers figure and dance instruction for beginners and advanced skaters alike

WEEKLY SESSIONS Reserved for Members ONLY

> Trips to Hershey Carnivals, Ice Capades

APPLY FOR MEMBERSHIP

Monday thru Friday evenings, Oct. 30 to Nov. 3 at the Skating Rink

For further information and applications contact Charles Hoff 711 N. Allen St., AD 8-2861



Styling...in the classic tradition

From the Arrow Cum Laude Collection comes the perfect example of authentic traditional styling. This luxury oxford is offered in subtle British stripings tailored with buttondown collar and box pleat. Whites and plain colors, too.

\$5.00 MEN'S STORE

State College

PHI MU DELTA

Welcomes Back

ALUMS



ALPHA DELTA PI

Welcomes Home The Alumni



with a Cider Pour following the game

ALPHA EPSILON PI

Krazy Hat Party



with Mike Raymond and The Midnighters

Open at 11:00 To all Fraternity Men and their Dates



KAPPA KAPPA GAMMA



Welcomes ALUMNI and FRIENDS to a HOMECOMING TEA following the

game

DELTA GAMMA

Welcomes its Alums



with a Breakfast at 10:00

> Sunday morning