AEC Approves College To Use Radioisotopes

Penn State is one of more than 300 institutions qualified to employ radioactive isotopes, which are by-products of the Oak Ridge, Tenn., atomic energy plant, for research work, according to a report of the Atomic Energy Commission to Congress.

Radioactive isotopes are abnormal atoms that disintegrate radioactivity, can be de- ald Carruthers will assist at the tected and counted by Geiger counters, and hence may be used to "tag" certain chemical building units, permitting them to be traced throughout chemical and biological reactions.

The biosynthesis of penicillin is the first College project to be approved for obtaining radioactive carbon, in the form of barium carbonate. The project, headed by Dr. Robert W. Stone, professor of bacteriology, will be conducted by the department of bacteriology,

School of Agriculture; and the department of chemistry, sors of chemistry, will have charge of the chemical degrada-Physics.

Dr. Richard C. Raymond, assistant professor of physics, is chairman of a committee on the gas bubbles formed when vitreuse of radio-active elements. It ous enamels are fired will be inuse of learning South American dance halls while on Sunday. passes on all campus requests to the Atomic Energy Commission for the isotopes from the Oak Ridge uranium piles.

Other passes on all campus requests to westigated by Dr. Davis and conshore leave from a cruise ship workers when their request for radioactive carbon is approved.

The special isotope will be plant.

members of the committee are Dr. Henry M. Davis. associate professor of metallurgy; Dr. Michael A. Farrell, assistant director of the agriculture experiment station; Dr. Herbert R. Glenn, director of Health Service; Dr. Arthur Rose, associate programming the director of chemical engine and Dr. John and Committee and the programming will be collected and tested with counters to measure the tivity. Dr. Arthur Rose, associate pro-bssor of chemical engineering: and Dr. John A. Sauer, head of be department of engineering nechanics.

cer, has applied for a two-week course in radiology, given at the National Naval Medical Center in Bethesda, Md. Bethesda, Md.

The mechanism by which certain Pennicillin molds synthesize the molecule of penicillin is to be studied. Various carbon compounds will first be added separately to fermentation median metallurgy, involving the use of radioactive sulfur is to trace the slag reactions in blast furnace operation.

Equipment is now on order for the laboratory which is expected to be set up in the fall. Space in separately to fermentation mediance in the separately to fermentation mediance in the separately to fermentation mediance in the use of radioactive sulfur is to trace the writer, educator and inventor.

Dancing was not permitted on the campus until 1890, then because of the lack of girls, the boys sometimes held dances among themselves.

The resulting penicillin will be carefully purified. Radioactivity of the drug will be compared with that taken up by the mold and the residual radioactivity of the medium.

In more advanced studies, pen. In more advanced studies, pennicillin tagged with C-14, radioactive carbon, will be chemically broken down into simpler compounds, which will be isolated and tested to discover where the radioisotope was located.

Three Year Studies

Future plans call for experimentation with radioactive sulfur, S-35, and with stable isotopes of carbon C-13, and of

topes of carbon, C-13, and of nitrogen, N-15. The expected nitrogen, N-15. duration of the studies is three

Supported by the Schools of Agriculture and Chemistry and Physics and by industrial grants from four pharmaceutical man-ufacturers, the project expects to work on a first year budget of \$25.600.

Pacteriologists, chemists physicists are cooperating in the program. Romeo B. Wagner and Harry D. Zook, assistant profes-

In 1905 there were nine fraternities.

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Metallurgy

carbon in the gaseous compound. Radiation of C-14 is so weak that it is easily stopped, even by the

Another proposed study in metallurgy, involving the use of

signed for it.

(Continued from page one)

Source of the carbon dioxide ing by enabling him to imitate

Scott has made two appearances in Carnegie Hall and presented concerts in Town Hall as well as in Philadelphia, Boston and Chicago.

At various times he has had a chool of music, a successful orchestra, composed, and invented a special mitten to strengthen fingers during practice. These mittens appear on the program as props for an arangement called "Mittens on the Keys."

In addition to being a versatile concert pianist, Scott, a Syracuse University alumnus, is a composer, arranger, humorist, actor. writer, educator and inventor.

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Church Calendar

VESPERS

Services will be held at 7:30 p.m. Sunday in Schwab Auditorium. The guest speaker will be Claude S. Conley, executive secretary of the Presbyterian Synod of Pennsylvania. Mr. Conley will speak on "Releasing the Power of God." Reverend Donald Carruthers will assist at the Services will be held at the Data Services. services

WESLEY FOUNDATION

all Methodist students and their friends. Anyone interested in atfriends. Anyone interested in attending should call the Foundation office for reservations by Friday noon. The cost will be approximately \$1 which will include transportation and evening meal. The group will leave from the Foundation at 2 p.m. Saturday.

The church school service for Holy Communion at 10:45 a.m.

EPISCOPAL

Services will be held at the Phi Sigma Delta fraternity house at Fairmount and Allen street, at A picnic at Po Pattie Park will 8 p.m. Friday. Refreshments will be held Saturday afternoon for be served after the service.

A combined swimming party and weiner roast, sponsored by

p.m. Saturday.

The church school service for Holy Communion at 10:45 a.m. students will be conducted by The student group will meet for a discussion of 6:30 j.m. Sunday.

LUTHERAN The Lutheran Student Associa-Sunday services will be held tion will meet at the Lutheran The sermon will be delivered by Church at 6:30 p.m. Sunday.

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