

Will Perform Tonight



PEGGY McLEAN, (left) professional women's world table tennis champion and Sandor Glancz, European table tennis champion, pictured above, will perform at 7:30 tonight in a table tennis exhibition at Recreation Hall. Also included in the show will be Edward Cooke, international tennis star.

Research Cited For Atom Pile

The proposed nuclear reactor to be built by the College will be available mostly for research by the College and for state industries, William M. Breazeale, professor of electrical engineering in charge of building the reactor, has announced.

Research done on the reactor will be of an unclassified nature, Breazeale explained, because the reactor will be available to many persons. Since experiments will be limited to unclassified work, experiments in several fields may not be done here, he said.

As an example, Breazeale cited plutonium research which is on the classified list. The College will not be allowed to make plutonium.

Research planned for the reactor will be in four fields: general neutron irradiation work, experiments requiring beams of neutrons, production of radioisotopes, and biological damage experiments.

Gear is Bombarded

Breazeale cited a gear experiment as an example of neutron irradiation work. The object of the experiment is to determine the amount of wear on a gear operating in a certain lubricant.

One of two gears is made radioactive by neutron bombardment and then run in operational conditions against a normal gear and in the lubricant to be tested. The amount of wear is determined by exposing a photographic negative with the radiation transferred to the second gear.

To Make Radioisotopes

The experiment requiring beams of neutrons that the College may perform with the proposed reactor will be the study of molecular structure using neutron diffraction. The reactor will be able to furnish three beams of neutrons at a time.

Using the reactor, the College will be able to make radioisotopes whose half-life is too short for the material to be imported from Oak Ridge or Brookhaven. These radioisotopes are used to study the effect of radioactivity over a short period of time.

A half-life is the amount of time it takes for a radioactive material to lose half its radioactivity.

Radioisotopes with half-lives of more than a week will probably be shipped in for research, while those with half-lives less than a week will be made here.

Biological damage experiments, Robert W. Stone, professor of bacteriology, explained, will study the effects of neutron and gamma ray radiation on plants and animals.

ICG to Meet Monday

A meeting of the Intercollegiate Conference on Government will be held at 7:30 p.m. Monday in 108 Willard.

Final plans will be made to attend the ICG conference Thursday through Saturday at Harrisburg.

INVITATIONS

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Costume Ball Slated Tonight

"Suppressed Desires" will be the theme of the Beaux Arts Ball, to be held from 9 to 12 tonight in the Temporary Union Building. The dance is sponsored by the Penn State Players and the American Institute of Architects.

Tickets, priced at \$1.50 per couple, are on sale at the Student Union desk in Old Main and will be sold at the door. Music will be provided by Jack Jenkins and his orchestra.

Costume is optional, but those students who wish to express their suppressed desires are asked to come dressed to represent them. Prizes will be awarded to the person with the best outfit.

Botany Group To Hold Dinner

Phi Epsilon Phi, national botanical honorary, will hold its first annual banquet and initiation for 1953 pledges at 6:30 p.m. Monday at the Allencrest Tearoom.

Dr. Norman F. Childers, chairman of the Department of Horticulture at Rutgers University, will discuss "Some Tropical Crops of the Western Hemisphere."

Newly-elected officers of Phi Epsilon Phi are Lawrence D. Little Jr., instructor in ornamental horticulture, president; Robert Buchanan, vice president; Roger Leach, secretary; and Joseph Duich, treasurer. Dr. Richard W. Van Norman, assistant professor of botany, will be faculty adviser.

Frank B. Thomas, instructor in pomology, has been elected national secretary of the organization.

Seniors May Order Caps, Gowns Today

Today is the last day for graduating seniors in chemistry and physics, home economics, and mineral industries to order caps and gowns at the Athletic Store. Deposit for the cap and gown is \$5.

The same seniors may order invitations and announcements at the Student Union desk in Old Main.

TOWN HOUSE
DINNERS 5 to 6 DAILY EXCEPT SUN

Abernethy To Speak In Chapel

The Rev. Bradford S. Abernethy, chaplain of Rutgers University, will speak on "... And Sometime CIRCUM," at Chapel service 11 a.m. tomorrow in Schwab Auditorium.

The Rev. Abernethy, president of the National Association of College and University Chaplains since 1949, received his A.B. degree from Haverford College and his B.D. from Colgate-Rochester Divinity School. An extensive traveler through Europe, Egypt, and the Holy Land, he also studied at the universities of Edinburgh and Oxford.

On Federal Council

Serving as pastor of the First Baptist Church in Columbia, Mo. for nine years, he also directed Baptist student work on the campuses of the University of Missouri, Stephens College, and Christian College, all in Columbia.

In 1941, the Rev. Abernethy joined the staff of the Federal Council of the Churches of Christ in America and served for two years as secretary of the Commission on "A Just and Durable Peace." He was named director of the Federal Council's Commission on the Church and Minority Peoples in 1943.

On WSSF Committee

As religious commentator for the Blue Network, he covered denominational conventions and directed "The Church in Action," a series of religious broadcasts over NBC.

Rev. Abernethy is a member of the executive committee of the World Student Service Fund and has taken student groups to Europe for summers since 1946. He and his wife are co-authors of the book, "At Home to Students."

The Chapel Choir will sing "God Is Our Refuge" (Mozart) and "O Clap Your Hands All Ye People" (Williams).

Erie Center Leader To Get Alum Award

Edwin W. Nick, who will receive a Distinguished Alumnus Award at Honors Day ceremonies, 7:30 p.m. Monday in Schwab Auditorium, was a pioneer in the founding and development of the Behrend Center in Erie.

Nick, one of a group of Erie citizens interested in having a community college, suggested the establishment of a Penn State center and solicited the aid of the present advisory board which helped secure the Behrend property. Enrollment at the center this semester is 127 students.

Holder of a 1907 B.S. degree and a 1909 electrical engineering degree, Nick also studied at Harvard University's Graduate School of Business Administration and at the Harvard Law School.

He served on the College Board of Trustees from 1931 to 1943, has been president of the Erie County Alumni Association, is a member of the board of the Alumni Association, is chairman of the advisory board of the Behrend Center, and is a director of the Pennsylvania Research Corporation — a nonprofit group which administers patents based on discoveries made at the College.

Nick has been president of the Northern Equipment Co. and of the Erie Pump and Engine Works. He has also been board chairman of Copes Regulators of London, England, director of the Erie Insurance Exchange, chairman of the Security Peoples Trust Co., and president of the Erie Camera Center, which he organized with his son.

Nick is also active in civic, religious, and cultural activities in Erie, including the Chamber of Commerce and the Manufacturers Association.

Players Tonight

Players' "Right You Are! (If You Think So)" is in the second week of its six weekend run at Center Stage. Tickets for tonight's performance, priced at \$1, are available at the Student Union desk in Old Main or at the arena theater, Hamilton avenue west of S. Allen street.



Edwin W. Nick
Distinguished Alumnus

Independents Hold WD Dance Tonight

The annual Spring Dance of the Association of Independent Men and Leonides will be held from 9 to 12 tonight in the West Dorm lounge.

Jerry Kehler and his orchestra will provide the music.

No admission will be charged for the informal dance. It will be open to all independent students and their dates.

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