Automatic Computer

300 Thousand PENNSTAC Solves Complicated Problems

Housed in the basement of Electrical Engineering is an awesome machine called itorium. PENNSTAC, dr Pennsylvania State Automatic Computer.

It is used to solve computational problems which arise at the University and also group for the past 35 years. So far as is known, this conto train graduate students in the field of computer engineering.

The machine can perform in a few hours the same amount of work which would take leadership of one man.

mathematicians several months to

do.

PENNSTAC took two-and-one-half years to build and was completed last July. Its value is estimated at \$300 thousand.

The equipment was designed and constructed at the University by members of the Department of Electrical Engineering assisted by graduate students. H. I. Tarpley, professor of electrical engineering, is now in charge of the project.

The amazing apparatus can be made to perform 1400 additions of 10-digit numbers in one second. Its magnetic drum "memory" can store 2.5 thousand 10-digit figures and produce them for future use.

Human Brains Oversee

Human brains however, over-see the work. An operator's console, the size and shape of the organ in Schwab Auditorium, sits in front of PENNSTAC, and contains a complicated-looking con-

trol panel.

Answers to the problems solved by the machine are punched out

on paper tape and typed by an electric typewriter. These are checked by the operator.

The main piece of equipment is a big, double cabinet with glass windows. The cabinet contains,

A group of agricultural staff members used it to determine which mixture of cattle feed containing the necessary ingredients would cost least.

The apparatus aids the Departure of Meteorology in spectrum lage and Charles Strauss

The determine that and Edward Browning and Edward Browni

ment of Meteorology in spectrum age and Charles Strauss. analyses and in finding changes Agriculture Student

sample rocks.

Dr. Donald T. Laird, assistant professor of electrical engineering, is in charge of preparing lander.

Elections will be held at the proven mosting. problems for solution on the com- next meeting. puter.

A non-credit seminar to acquaint faculty and staff members with the possible uses of the company will meet at 6:30 puter has been planned.

Ag Group Will Meet

Alpha Tau Alpha, agricultural education fraternity, will hold an election of officers at 7:30 tonight

in 102 agriculture education.

A film, "The Supervisor as a Leader," will be shown.

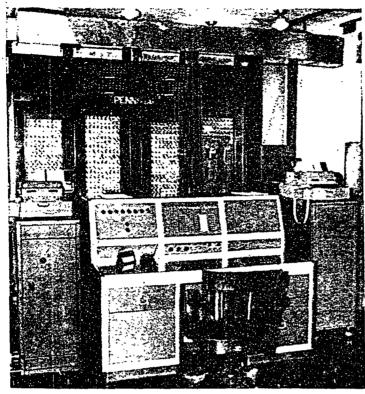
Fix Up . . . Paint Up

Spring is the time to repaint those dingy old bulletin boards and lamp shades. Perk up your room with one or several of our new odorless paints . . .

ENAMEL FLAT WALL LATEX SURFA-TONE

G. C. MURPHY

131 S. ALLEN



form more operations. Students may take courses on how to run the machine.

Those nominated for president Snyder.

Snyder.

New initiates at Theta Delta Chi and many examples of popular to the machine.

Various computational problems

Those nominated for president Snyder.

New initiates at Theta Delta Chi and many examples of popular to the machine.

David Cernea, Arthur Bell, Sam-

ment of Meteorology in spectrum analyses and in finding changes in wind velocity.

Agriculture Student Council representative nominees are It was used by the Department of Mineralogy to determine the correlation of uranium with the presence of other minerals in sample rocks.

Dr. Doreld T. Leird essistant James Crates and Charles Strauss.

Agriculture Student Council Schiffner and Michael Stollmeyer. Sylvania Selective Service System. Newly-elected officers of Delta representative nominees are Charles Glidden, Walter Knapp, of Mineralogy to determine the Charles Glidden, Walter Knapp, of Mineralogy to determine t

Elections will be held at the

the machine.
Various computational problems
Felton; for vice president, Blain David Cernea, Arthur Ben, Saint Prato, Daniel Stutzman and Edward Browning.

Nominated for recording secreTealanis

Errickson, John Friday, Jerry has been named to the Scientific Hammaker, James Hepler, Robert Advisory Committee of the Penn-Remeth Robert Cording secretary, Robert SchiffRobert cording secretary, Robert Schiffikulecky,
ner; corresponding secretary, Jerry Hammaker and pledge master,
Jacob Engle.

1 at the Delta Chi has pledged David

Anderson, Kent Carpenter, James Ditzler, Edward Halbert, Walter Heiler, David Kreh, Robert Man-ners, Ronald Martino, Philip Mul-lin, Richard Poust, Robert Staig-Candidates for the Book Ex-lin, Richard Poust, Robert Staig-change will meet at 6:30 tonight er, Anthony Stillson and Louis in 214 and 215 Hetzel Union. Van Refelghen.

STATE COLLEGE'S FINEST

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Fresh Sea Food

Steamed Clams Fried Oysters Danish Lobster Tails Fantail Shrimp Steaks Chops Italian Foods and your favorite beverage from our bar

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Westminster Choir To Sing in Schwab

The Westminster Choir, on its 35th consecutive season of touring, will appear at 8:30 p.m. Wednesday in Schwab Aud-

John Williamson, founder of the Choir, has directed the stitutes a record. No other choral group has sung so long

The choir has twice toured Eu-ope and will start its first tour Scholarship Open

of Asia this Fall.

The Choir was first organized to serve as the volunteer choir Scrolls, senior women's hat soof the Westminster Prespyterian ciety, will provide a \$100 scholar-ship for a second seemster freshmembers of the first choir were businessmen and housewives who devoted their leisure hours to or of Mary Jane Wyland, advisor williamson.

The scholarship, named in hon-or of Mary Jane Wyland, advisor or of Mary Jane Wyland, advisor Williamson.

Fame Spread

The fame of the group spread sale sponsored by the society, and neonle began visiting Payton.

and people began visiting Dayton
to hear it. Called upon to sing nate \$10 to the drive for the Hunat an increasing number of meetings and gatherings, the Choir was placed with a concert, and in 1921 undertook its first tour.

Scrolls has also decided to donate \$10 to the drive for the Hunat an increasing number of meetings and gatherings, the Choir was placed with a concert, and in Riding Group to View

concert unit of Westminster Choir College, Princeton, N.J. Williamson, founder and conductor of the Choir, is also founder and president of Westminster Choir College. Recognized as one of today's coutstanding authorities on choral techniques, Williamson is also credited with being a pioneer in the development of American choral singing. choral singing.

on paper tape and typed by an electric typewriter. These are checked by the operator.

The main piece of equipment is a big, double capinet with glass windows. The cabinet contains, among other things, 1500 vacuum tubes and about 2000 tiny flashing lights, which act as trouble shooters.

Has Air Unit

PENNSTAC even has its own air-conditioner to remove the excess heat it generates. Auxiliary equipment nearly fills 6 Electrical Engineering, took two-and-one-half years to build and is used to solve computational problems that arise at the University.

Forestry Group

Nominates 27

Twenty-seven students have chapter by the engineering staff. Research work is being done to enable it to work faster and perform more operations. Students

The Choir has made 190 orchestral appearances in the last 17 years with symphony orchestras. The New York Philharthonic Symphony Orchestra, The New York Philharthonic Symphony

of the Westminster Presbyterian ciety, will provide a \$100 scholar-

1921 undertook its first tour. Today the Choir is the touring Livestock Show Slides

One's

Fri., Sat. - 8 & 9 - Center Stage

Have Fun!

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is nearly here, and it's time to put away those heavy winter coats. See our new shipment of khaki carcoats and all-purpose coats in pastel and dark shades. Here are the light-weight jackets you want for bright Spring days, perfect



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