

Program for Expansion May Double Buildings

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to make way for a new wing on Willard Building and for an Arts and Humanities Building.

Also scheduled for the current 5-year period is an addition to the Electrical Engineering Building. The new wing will be north of the present building.

A new Extension Conference Center will be built west of Route 322 on the site of the golf course.

Two additions to the Fred Lewis Pate Library, originally scheduled for the third building period (1956-1970) have been moved up and included in the current period. The additions will be located on the east and west sides of the building.

The first of three planned areas to house married graduate couples will be built along West College Avenue south of the now-under-construction Research Center. The second area is scheduled for construction in the second period, while the third is scheduled for the third building period.

A new Biological Sciences Building will be constructed to the west of the library, just south of Curtin Road.

A physical sciences building is scheduled to occupy the site of the Jordan Fertility Plots at the corner of Shortlidge and Pollock Roads.

A service and general stores building is planned for Three-mile Road on what is now University farmland. Also scheduled for construction in this area during the current period is a beef-cattle barn, sheep barn, meat's laboratory and swine research facilities.

The current reconstruction period calls for four United States Pasteur Laboratories just west of the University greenhouses.

The site has not yet been determined for the first unit of the Computer Facilities Center which will be located somewhere within the engineering complex.

Facilities for nuclear study and research will be provided in the addition to the Nuclear Reactor Building.

Already under construction as part of the expansion program are Hammond Engineering Building, North Residence Halls, the two wings to the Home Economics South Building, The Petroleum Refining Laboratory, the north wing of Sackett Building, the first unit of the Research Center and the Wagner Military Science Building.

2nd 5-year Period

The second 5-year expansion period, 1961-1965, will see construction to the tune of \$25.3 million. Approximately \$6.3 million will be spent on academic buildings, \$5 million on general buildings and utilities and \$14 million on self-financing construction.

Plans for this period include moving of Beaver Field to Uni-

versity farmland on east campus north of Three-mile Road.

The old Psychology Laboratory on the Mall and Pollock Road will be torn down to make way for the new building for the School of Journalism.

The lawn area between Old Main and McAllister Hall will be the site of the General Admissions Building.

The proposed addition to the Hetzel Union Building is included in the plans for this period. The addition might be located south of the building on the area now occupied by the patio.

Also proposed for construction during this period is a wing to the Mineral Science Building. The new addition will be located along Burrows Road.

An addition to Ag Hill will be the Animal Husbandry Building to be located north of Curtin Road just west of the Dairy Building.

Construction is planned for three of four parts of the graduate residence halls to be located near Park Avenue. The three areas will contain 14 units. The fourth section is scheduled for the third 5-year period.

Temporary Building will be torn down to make way for a second woman's physical education building.

The second unit of the Research Center is also scheduled for this period. The last building in the center is scheduled for the third construction period.

3rd 5-year Period

The third of the 4-stage expansion project (1966-1970) will see approximately \$13 million spent for academic buildings, \$7.8 million for general buildings and utilities and \$32 million for self-financing buildings. The total expected outlay for the third 5-year period is \$53.3 million.

The first two buildings of the proposed Business Administration and Law School complex are scheduled for construction during this period. They will be located west of Route 322 on the site of the present golf course.

The third building is planned for the fourth period.

Also scheduled for the same area is the new auditorium. The proposed building will be located south of the Law School.

An addition to the engineering complex is also proposed for this period. The building will run along the back of Engineering Units A, B, C, D, E.

Plans for the period call for an addition to the Helen Eakin Eisenhower Chapel. The addition will be on the west end of the present building.

The long-range plans also call for a general classroom building on Pollock Road east of the proposed Journalism Building. Wom-

an's Building will be torn down to make way for the structure.

A third addition to the Home Economics South Building is included in the expansion plans. The building will extend from the end of the wings now under construction across the front of the HUB lawn.

Proposed for the third expansion period in a 22 unit residence hall area along Park Avenue to the east of the proposed graduate quarters.

Also proposed for the third 5-year plan is a new men's physical education building along Three-mile Road just south of the relocated Beaver Field. The field will be near the proposed state by-pass for Route 322.

Varsity practice fields and other athletic fields will be located in the area around the stadium. Parking areas will also be provided.

The last period in the current long range expansion program (1971 and beyond) will include a third unit for the proposed Business Administration and Law School complex and a General Extension Building in the same area.

Two more buildings in the Education Complex are planned for this period. This will bring to six the number of units in the area.

Four buildings are proposed for the current site of the Engineering Units. Buildings are also planned for Burrows Road south of the proposed Mineral Science addition and north of the Power Plant.

A new wing is also planned for Osmond Laboratory. The wing, to connect to the west end of the building will require the destruction of Walker Laboratory.

A new road will be cut through the area west of the proposed new wing. It will connect Pollock Road with Curtin Road.

The final expansion period calls for two new buildings for the College of Agriculture. Buildings are also planned for the area between Patterson Laboratory and the Dairy Pavilion and the area south of Buckhout Laboratory.

'Today's Speech' Prints Article Written by Zelko

Harold P. Zelko, professor of speech, has written "Customer Relations Start Inside the Organization," an article which appears in the current issue of "Today's Speech."

The article is based on a speech which was presented by Zelko at the Customer Relations Conference held recently at Hershey by the Pennsylvania Electric Association.

Chart Reveals Graphically University's Plans for 1970

The map on this page is a part of the University's Long-Range Development Studies.

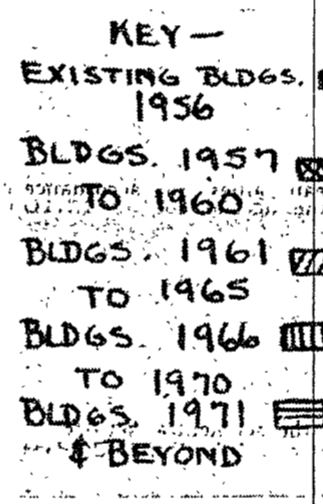
It shows the buildings, which could conceivably be erected on the main campus between now and sometime beyond 1971.

C. S. Wyand, vice president for development, has said the buildings as they are drawn on the map are not fixed in size or position.

The exact size, location and use of each building can be determined only after it is approved by the Board of Trustees and the General State Authority.

As shown in the key that accompanies the map, some of the structures will be completed by 1960, the others in increments up to and including those buildings to be built after 1970.

The development, as can be seen on the map, will tend towards both the far eastern and western stretches of campus, with another concentration of buildings on the present site of Beaver Field.



New North, North East Halls To House Future Students

Like the needle of a compass, the University's expansion of residence hall facilities has spun around in a circle and now points north.

The University plans to take care of the increase in student residential needs by building east of Shortlidge Road adjacent to Simmons and McElwain and building on the Northeast corner of the campus along Park Avenue. A site along West College Avenue is also proposed for housing married graduate students.

In connection with these plans, Pollock Circle dorms are in the process of being torn down, to provide new residence hall facilities for 2016 students.

The project, due for completion in the fall of 1960, is being handled by Virginia Engineering Corporation. It is divided into two parts: Pollock 1 consisting of three buildings for men students,

and Pollock 2 which includes four units for women's residence halls.

Two of the men's residence halls will have six floors while one of the men's units and all four of the residence hall buildings to be occupied by women students will have eight floors. All the units will be of brick construction.

Pollock 2 will also include dining halls, a post office, and recreation rooms. The new dining halls will also serve men students from the Nittany Residence Halls.

The halls will have a center core design. This provides that all lavatories, laundry facilities, supply rooms, trunk rooms, stairs, and elevators will be located in the central area. Due to this arrangement, all exterior wall space and window areas will be available for student living quarters.

The three buildings to be occupied by men have been designed to provide 14 living units,

with facilities for a counselor for each unit, as well as a staff apartment for the head counselor.

Otto E. Mueller, director of housing, explains that the smaller units in larger buildings are designed to enable each student to become acquainted with all of the students in his unit and to feel a part of that unit.

Each of the four buildings for coeds will have two living units with a hostess assigned to each. Provision has been made for six sorority suites in the area.

Plans state that important existing open areas such as Hort woods, will be preserved to maintain the character of the campus. Also playgrounds will be provided within each addition or group of residence buildings.

The buildings are to be financed through the sale of bonds since student residence halls are considered self-financed buildings. The schedule for the sale of bonds calls for \$33,675 in 1960; \$14,150 in 1965 and \$32,100 in 1970.

Increase of Students Forces Expansion

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Students pay \$350 a year in tuition and other students \$750 a year.

But the major portion of money needed is expected to come from the same sources used now — state and federal appropriations, bond issues and the General State Authority.

Where the present biennial state appropriation is \$27.7 million, the Long-Range Studies expect it to be about \$100 million by 1970.

The plans for all this expansion are constantly in a state of change, the Long-Range Studies show, because "rapidly changing environmental conditions are modifying many of traditional functions of higher education, and will require the development of NEW areas of service at Penn State."

These new areas which the studies note are law, veterinary medicine, nuclear science and engineering, solid-state physics, mass communications, linguistics, comparative cultures, labor education, interplanetary studies, bio-physics, physiology and other life sciences, library science, food retailing and distribution, demography and public administration.

Many of the reports of expansion in this special issue of The Daily Collegian, therefore, may be entirely scrapped for something different tomorrow or next year.

But one thing remains certain — the University is on its way to being one of the educational and research centers of the nation.

Scientists From MIT Will Conduct Interviews

Scientists representing the Massachusetts Institute of Technology's Lincoln Laboratory will visit the campus Tuesday.

The scientists will be here for the purpose of discussing Lincoln Laboratory's activities and the opportunities that are available there for professional development and graduate study.

Students who are interested in learning about permanent or summer appointments at Lincoln can register for interviews at the Placement Office in Old Main.

Enrollment to Double

The total student enrollment is expected to double by 1970 over 1955 figures with a 62 per cent increase in the academic faculty.

These predictions were compiled by the Administrative Committee on Long-Range Development.

The Committee assumed that the University will continue including undergraduate and graduate instruction and research in individual faculty assignments.

Assumptions made for undergraduate instruction are:

- The average student-faculty ratio will be increased from 15-1 (1957 figure) to 22-1 by 1970.
- The size of classes will be controlled.
- The average teaching load will not drop below a 12-hour level.
- The quality of teaching will be maintained and improved.
- A vigorous faculty development program will be fostered.
- Optimum use will be made of teaching assistants and other resources helpful to the faculty.

The 20,200 full-time undergraduate students scheduled for the University by 1970 will re-

quire a full-time faculty of 922, 138 more than required for the 1955 enrollment of 10,891.

Assumptions made for graduate instruction are:

- The student-graduate faculty ratio will vary on the master's and doctor's levels, but will maintain an average of about 8-1.
- The size of classes will be controlled, but with due regard for the position of the fields of study currently being developed.
- The ratio of masters to doctor candidates will be about 3-1 by 1965.
- Opportunities for these research will expand greatly.
- Planned increases in education will be closely coordinated with research.
- The amount and quality of graduate education will increase.
- The teaching load for 500 to 600 courses will be reduced from 12 to 9 hours as soon as possible.
- The faculty will be expanded (1) by increasing the proportion of graduate teaching done by pre-

sently approved members of the Graduate School, and (2) by encouraging the development of other members of the University's teaching and research staff for graduate teaching.

By 1970 a total of 3051 graduate students will require a full-time faculty of 413 members, an increase of 289 over the comparable 1955 total.

Under the General Extension program, an estimated 9900 students will be enrolled in the baccalaureate and associate degree programs at the Centers by 1970. A 450-man faculty will be required at the Centers in 1970, an increase of 295 over 1955.

For all other General Extension programs, the enrollment will rise from 2282 students in 1955 to 12,892 by 1970 and will require a faculty of 586 in the latter year.

The Agricultural and Home Economics Extension program will require a staff of 557 by

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6:30 Morning Devotions
6:35 News Headlines
6:47 Morning Show

11:00 News
11:05 Swap Shop
11:15 Classical Interlude
12:00 Music at Noon
12:15 County News
12:30 What's Going On
12:35 Music Show

1:00 News and Sports Contact
1:15 Local News and Show Tunes
2:00 LP's and Show Tunes
2:30 News
2:55 LP's and Show Tunes
3:00 News and Markets
3:15 Sports Special
3:30 LP's and Show Tunes
7:00 Felton Lewis Jr.
7:15 LP's and Show Tunes
7:45 Public Service Program

8:00 News
8:05 WDEM Programs
10:00 News
10:05 Groovology
11:00 News
11:05 Groovology
12:00 News and Sports
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1:00 News and Sports
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