

# Penn State Collegian

Published Semi-weekly during the College year by students of the Pennsylvania State College, in the interest of the Students, Faculty, Alumni and Friends of the College.

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FRIDAY, DECEMBER 3, 1920.

### CONGRATULATIONS!

The COLLEGIAN, for the student body, wishes to congratulate the members of the varsity football team, the other members of the squad and the coaching staff, for their wonderful work during the past gridiron season. It was a long hard schedule which faced them at the beginning of the school year and it was only with patient, undying determination that it was completed. That the year was successful cannot be denied. The Blue and White men got off to a rather late start, but when they gradually had gathered the required momentum, they were an unbeatable combination. Not only was the squad group of men capable of carrying the name of Penn State to higher levels, but they were men whose work was characterized by that for which this college is noted, Penn State spirit. Sacrifices, trials, discouragements, all came their way, were met and passed on. Penn State grit and fight went out and it is because of their great determination and desire to place her high among the colleges of this country that we honor them. In like fashion do we extend our regard to those men who opposed them in practice, and who made it possible for the varsity to be what it was. All honor to the "scrubs". Theirs was a hard lot, but they did their duty cheerfully, without a protest and with the knowledge that it also was for Penn State. And then, in back of them all were the coaches, those men whose every hour was full of concern for the men and with plans for bettering them so that they would be better able to serve the college in their various capacities. Loyalty emanated from all, coach and player, loyalty built up of the choicest of ideals and dreams for the alma mater and her children. They are Penn State's very own and are honored and will be remembered not only for what they have done, but for the spirit in which it was done.

### FIRST IN A GOOD CAUSE

Always ambitious to be first in every good cause, Penn State students began last Monday a campaign for the safe of Christmas. Santa and Bonds for the benefit of the Pennsylvania Tuberculosis Society. This was in advance of "Tuberculosis Day" in the public schools of the state, which is set for this Friday and Tuberculosis Sunday in the churches on December fifth. In former years the little red stamp has carried its message of health and good cheer wherever the mails travel. It has been but a trifle for each one to affix to his letters and packages this stamp of health; yet this trifle has played its part in restoring health and preventing contagion to hundreds and thousands.

That there is great need for the prevention of this disease is a fact patent to all. The war has greatly increased the number of cases. Ninety-two thousand men, according to the New York Times, were found unfit for military service because of this disease; nearly fifty per cent. more than were killed overseas. Yet, during the same time, 150,000 men, women and children died in America with tuberculosis. This disease, so treacherous and deadly, has ended for many what might have been a life of worth and service to the nation.

The little red stamp with the laughing boy on the shoulders of "Santa Claus," bearing the message, "A Happy Christmas and a Healthy New Year," will help to preserve human lives and will through the education of public opinion put tuberculosis into the class of diseases almost unknown to the white race. It becomes almost a habit with college men to receive much and give little. It has been a part of our training to be good receivers. We pay about one-fifth of what our education costs. Therefore it becomes us to seek continually for opportunities to repay to society at least a part of what has been given to us. The Christmas stamps and bonds afford us another opportunity. It is but a little matter to affix these stamps to our mail. Yet that trifle, if kept up faithfully by all of us until the New Year, will help swell a fund which will be a power for good to the commonwealth and the nation. Let us do our part.

### THE GROWING FUND

Penn State students and alumni can well look forward with pride and pleasure to the erection of a new track house in the near future. The wonderful impetus given this project last week at the Alumni Smoker before the Thanksgiving Day contest is the cause for much rejoicing. The matter lines up with other booms for a bigger, better Penn State. Everyone knows the status of conditions financial and otherwise at Penn State and it is gratifying to note how more and more students and alumni are realizing that they should play an active part in this change for the better. It is a worthy project, that of increasing the facilities of any college, and we may well point to this as an example of what may be done later on with other projects, equally as necessary to the college's welfare and which, we hope will be accepted by future Penn State men and women as theirs to solve.

### CHANGES PROPOSED IN JUNE PROGRAM

(Continued from first page)

cupping the morning and some athletic event, the afternoon.

The commencement exercises themselves and the formal presentation of diplomas to the graduating men and women have been moved up a day from Wednesday to Tuesday, thereby shortening the entire commencement period one day. The same number of athletic contests will prevail as formerly, as Graduate Manager Nell Fleming announces that he is arranging for a track meet and two baseball games to take place during the activities. It is probable that the track meet and one baseball game will be staged on Saturday and the remaining game on Monday.

These changes are practically assured and will go into effect this coming June if the consent of the Trustees is obtained. The changes in part were first suggested by the alumni who urged the Trustees to take some appropriate action. This body reviewed the suggestions and after approving the spirit of the modifications, requested the Council of Administration to draw up a program involving these changes. This has accordingly been done and have been sent to the trustees for their approval.

HOME ECONOMICS DEPARTMENT SHOWS CHILD WELFARE CHARTS. The Children's Bureau of the United States Department of Labor has loaned a series of charts to the Home Economics Department of the college which are of interest to all who are interested in Child Welfare work. These charts have been placed on exhibition in the corridor of the Woman's Building and will be on view for two weeks.

## MUD 'MUD MUD

Statistics of the Game

First Downs

Penn State 8	Pitt 12
Ground Gained in Scrimmage	
Penn State 152	Pitt 175
Ground Gained by Return of Punts	
Penn State 15	Pitt 19
Ground Gained by Return of Kick-offs	
Penn State 37	Pitt 0
Punts	
Penn State 22	Pitt 12
Average 31 yards	Average 31 yards
Forward Passes	
Penn State 3	Pitt 6
Successful 3	Successful 0
Unsuccessful 5	Unsuccessful 4
Intercepted 0	Intercepted 2
Yards Gained 9	Yards Gained 0
Fumbles	
Penn State 7	Pitt 5
Penalties	
Penn State 2 for 25 yds.	Pitt 4 for 50 yds.

## "Prexy" Tells Life Of Louise Adams

On Tuesday evening Dr. Sparks delivered the fourth lecture of the Liberal Arts series on "The Women of the White House," his subject being "Louise Adams, the English Woman." Dr. Sparks was compelled to devote the greater part of the lecture to the life of John Quincy Adams because of the fact that little is known of Mrs. Adams' life and, by citing numerous incidents in the long political career of the former, he gave his audience a remarkable insight into American politics of that time.

Louise Katherine Johnson came from a prominent Tory family of Maryland that was forced to flee from the country, at the outbreak of the American Revolution. However, the family remained in the country after the war and played an active part in the new government. Louise's uncle being elected governor of the state. Very little is known regarding the education of the Sparks until his father for two or three years and at the age of fourteen became secretary to the American Ambassador to Russia. Two years later he acted as secretary to his father in the administration of the United States, graduated from Harvard at the age of nineteen, became a lawyer for a few years, and finally was appointed Minister to Spain by Washington.

In 1827 he was sent to England to help draw up the famous treaty of that year and, while there, married Miss Johnson who was residing in the country at the time. Many of his political opponents claimed that he had married a "dark-skinned" girl.

Later years: In 1802 John Quincy Adams was elected to the Senate where he was continually disturbed by party quarrels but failed to secure reelection in 1808. He then taught at Harvard for three years and later through his support of Madison was made Minister to France. The final outcome of Monroe in 1816 brought him the position of Secretary of State and in 1824, after a bitter fight, he was elected President of the United States by the House of Representatives. The force campaign of 1828 brought Mrs. Adams into the limelight once more and she was slandered unmercifully by the opposing party. The final outcome of this campaign will be taken up in Dr. Sparks' next lecture "Rachel Jackson, the Frontier Woman" in Tuesday evening.

### FARM PRODUCTS SHOW TO BE HELD IN JANUARY

Announcements of the Fifth Annual State Farm Products Show to be held in Harrisburg the latter part of January were received recently by the Department of Agriculture. In former years the exhibits have been very successful and this one is expected to be as good if not better than its predecessors.

The show will include exhibits of dairy products, eggs, wool, tobacco, fruits and vegetables. One of the most important of these will be the corn exhibit in which a great deal of enthusiasm has been shown in former years. The exhibits will be classified with reference to the exhibitors into four classes to include farmers, commercial egg producers, back-yard gardeners, and a boys' and girls' class.

In addition to the exhibits, meetings of all the state agricultural organizations will be held during the Show. Generally between fifteen and twenty faculty members attend these meetings. Professor E. K. Eitzenman, head of the Agricultural Extension work of the college, is secretary of the committee in charge of the Show and information regarding entries may be secured from him.

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### SOCCER TEAM RETURNS FROM SUCCESSFUL TRIP

(Continued from first page)

Bertenshaw and Phillips started for Syracuse. The lineup of the game was as follows:

Penn State	Syracuse
Longhurst.....Goal	Cooley
Hosterman.....R. F. B.	Chlen
Glading.....F. B.	Ignacio
Mattner.....R. H. B.	Partridge
Milligan.....C. H. B.	Worden
James.....L. H. B.	Phillips
Miller.....O. R.	Bertenshaw
Meikle.....I. R.	Derby (Capt)
Trapshoner.....C. F.	Colling
Grupp.....I. L.	Wellington
Hazelwood (Capt.).....O. L.	Wertz

Goals—Grupp, Trapshoner, Meikle, Phillips, Wellington, Bertenshaw. Time of halves, 40 minutes. Also an extra ten minute period. Referee—John Muirhead. Substitutions—Penn State: Earl for James, James for Glading, Blackmore for Miller.

Awakening after their short slump against Syracuse, the Mitty soccer team came into their own at Toronto in order to accommodate the special speaker, Miss Anna M. Watts, representing the Women's Auxiliary of the Board of Missions of the Episcopal Church.

The Penn State Y. W. C. A. celebrated the 30th anniversary of the landing of the Pilgrims by a special service conducted by the Congregational girls Wednesday night. Next week the regular Y. W. C. A. meeting will be shifted from Wednesday to Monday night in order to accommodate the special speaker, Miss Anna M. Watts, representing the Women's Auxiliary of the Board of Missions of the Episcopal Church.

played their last varsity soccer game for the Blue and White in this contest. The lineup of the game was as follows:

Penn State	Toronto
Longhurst.....Goal	Abbott
Hosterman.....R. F. B.	Needleson
Glading.....L. F. B.	Johnston
Mattner.....R. H. B.	Sniffle
Milligan.....C. H. B.	Underhill
James.....L. H. B.	D. Mason
Miller.....O. R.	Tancoue
Meikle.....I. R.	Dier
Trapshoner.....C. F.	Cason
Grupp.....I. L.	Edwards
Hazelwood (Capt.).....O. L.	Spaulding

Goals—Grupp, 2; Trapshoner. Time of halves, 40 minutes. Referee—Dr. W. Meico.

### FARM MACHINERY DEPT. AUTHORIZED BY TRUSTEES

At the meeting of the Board of Trustees of the college, held on November 5, the establishment of a Department of Farm Machinery was authorized. The work of this department will include instruction in the principles of engineering as applied to agriculture in the selection and operation of farm machinery of all kinds. The course will also comprise work in drainage problems and the construction of farm and poultry buildings.

### Y. W. C. A. CELEBRATES LANDING OF PILGRIMS

The Penn State Y. W. C. A. celebrated the 30th anniversary of the landing of the Pilgrims by a special service conducted by the Congregational girls Wednesday night. Next week the regular Y. W. C. A. meeting will be shifted from Wednesday to Monday night in order to accommodate the special speaker, Miss Anna M. Watts, representing the Women's Auxiliary of the Board of Missions of the Episcopal Church.

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## What is Air?

BEFORE 1891 every chemist thought he knew what air is. "A mechanical mixture of moisture, nitrogen and oxygen, with traces of hydrogen and carbon dioxide," he would explain. There was so much oxygen and nitrogen in a given sample that he simply determined the amount of oxygen present and assumed the rest to be nitrogen.

One great English chemist, Lord Rayleigh, found that the nitrogen obtained from the air was never so pure as that obtained from some compound like ammonia. What was the "impurity"? In co-operation with another prominent chemist, Sir William Ramsay, it was discovered in an entirely new gas—"argon." Later came the discovery of other rare gases in the atmosphere. The air we breathe contains about a dozen gases and gaseous compounds.

This study of the air is an example of research in pure science. Rayleigh and Ramsay had no practical end in view—merely the discovery of new facts.

A few years ago the Research Laboratories of the General Electric Company began to study the destruction of filaments in exhausted lamps in order to ascertain how this happened. It was a purely scientific undertaking. It was found that the filament evaporated—boiled away, like so much water.

Pressure will check boiling or evaporation. If the pressure within a boiler is very high, it will take more heat than ordinarily to boil the water. Would a gas under pressure prevent filaments from boiling away? If so, what gas? It must be a gas that will not combine chemically with the filament. The filament would burn in oxygen; hydrogen would conduct the heat away too rapidly. Nitrogen is a useful gas in this case. It does form a few compounds, however. Better still is argon. It forms no compounds at all.

Thus the modern, efficient, gas-filled lamp appeared, and so argon, which seemed the most useless gas in the world, found a practical application.

Discover new facts, and their practical application will take care of itself.

And the discovery of new facts is the primary purpose of the Research Laboratories of the General Electric Company.

Sometimes years must elapse before the practical application of a discovery becomes apparent, as in the case of argon; sometimes a practical application follows from the mere answering of a "theoretical" question, as in the case of a gas-filled lamp. But no substantial progress can be made unless research is conducted for the purpose of discovering new facts.

# General Electric Company

General Office Schenectady, N. Y.