

Bulletin

Tuesday, October 31
7:00 p. m.—Chester County Club in Room 315 Old Main
7:00 p. m.—Pottstown Club in Room 314 Old Main
7:30 p. m.—Mass Meeting in Auditorium
Wednesday, November 1
7:00 p. m.—Memorial Society in Room 25, Liberal Arts Building.
Thursday, November 2
7:00 p. m.—American Association of University Professors in Room 102, Engineering A.

Notices

There will be a special meeting of the Penn State Memorial Society on Wednesday evening, November 1st, at 7:30 o'clock in Room 25 Liberal Arts.

New Books on the Library Shelves

- Clayton.—Margarine
Drake.—America faces the future
Merrill.—The American party system
Mine.—First plays
Mine.—Second plays
Sunders.—Roses and their cultivation
Seager.—Principles of economics 4th ed
Seltman.—Principles of economics 8th ed
Smith.—Primitive animals
Strachey.—Eminent Victorians
U. S. Signal office.—The principles underlying radio communication
Vanderlip.—What next in Europe?
Ward.—Psychological principles
Watts.—An introduction to the psychological problems of industry
Wellman-Seaver Morgan co.—The open hearth
Arms.—The notion of number and the notion of class
Bieber.—The Lords of trade and plantations
Burchett.—Janus in Roman life and cult
The Dearborn Independent.—Jewish influences in American life, v. 3
Dodd.—Procedure in state legislatures
Ellingwood.—Department cooperation in state government
Guthrie.—The paradoxes of Mr. Russell
Hardy.—Geography of plants
Barron.—State regulation of the securities of railroads and public service companies
Bell.—Studies in the trade relations of the British West Indies and North America
Bossard.—The churches of Allentown
Bowden.—The rise of the great manufacturers in England
Boppe.—Speculation and the Chicago board of trade
Brewster.—Roman craftsmen and tradesmen of the early empire
Bye.—Capital punishment in the U. S.
Hamer.—The secession movement in South Carolina.
Holtzhauser.—An epigraphic commentary on Suetonius's life.
Johnston.—Mrs. Warren's daughter.
Keller.—The story of my life.
Levi.—Gnostic literature in Bible and Apocrypha.
Locher.—Dictionary of the organ.
Mayer.—War and religion.
Neal.—Editorials and editorial-writing.
Raymond.—Portraits of the nineties.
Schlesinger.—New viewpoints in American history.
Sinclair.—The combined maze.
Sladen.—The approach of academic to spoken style in German.
Spann.—Die haupttheorien der volkswirtschaftslehre.
Crennan.—A survey of state executive organization and a plan of reorganization.
Doornburg.—Wilhelm Raabe und die deutsche romantik.
Downer.—Metaphors and word-plays of the civil war.
Ervine.—John Ferguson.
Euphorion.—Zeitschrift fur Literaturgeschichte, v. 1-21.
Franc.—Ibsen in England.
Goethe.—Gesellschaft, - Jahrbuch der Wendel.—The evolution of industrial freedom in Prussia.
Blanche.—The dramatic values in Plautus.
Cutts.—The life and poetry of John Cutts.
Surface.—Studies on the geography of Virginia.
Terry.—The spirit of propagandism in the French revolution.
U. S. Navy Dept.—Official records of the Union and Confederate navies in the War of the Rebellion.
Watkins.—A survey of the revenue system of Delaware County, Pa.

OLD MAIN CLUB GIVES ANNUAL HALLOWEEN HOP

Autumn Foliage Transforms Armory Into Gala Hall for Fourth Annual Ball

The Old Main Ball, the most select and exclusive band of outlaws on the campus, emerged from their burrows in the Old Main on Saturday night to show the College how to hold a real dance. The affair was the fourth annual dance of the Old Main Club and was by far the most successful, for over one hundred and fifty couples swayed to the music of Kenn Kellar's orchestra from Altoona.
A profusion of autumn foliage, leaves and corn stalks, transformed the drab, bare Armory and with the mellow rays of strings of lanterns continually brightening and dimming, added the finishing touch to a scene that had a distinctly Halloween effect. Enthroned on a raised platform in the center of the floor, Kenn Kellar played for the dancers with the kind of music that draws out steps.
The patronesses of the dance included Dean and Mrs. Warnock, Dean Knight, Professor and Mrs. Torrence, Professor and Mrs. Stavely, Mr. and Mrs. Cloke, Professor and Mrs. Newblatt, and Professor and Mrs. Forbes. Not a little of the success of the affair was due to the committee in charge of the dance. H. A. Leonard '23, as chairman, was assisted by J. P. Dempsey '26, J. A. Knox '23, D. G. Reeder '23, S. H. Stoller '24, and J. H. Endley '26.

LARGEST STADIUM IN WORLD BEING BUILT NEAR LONDON

To match the best American athletes against the best British athletes, is one of the reasons why the largest stadium in the world, with a seating capacity of 125,000 for field meets and 175,000 for boxing exhibitions, is being built ten miles northwest of London, at Wembley, England.
At least four hundred dressing rooms for athletes, built under the long tiers for spectators, will be a part of the conveniences, as well as training quarters, dormitories, and dining rooms. The stadium inside will measure eight hundred feet long and three hundred feet wide. Inside this vast area will be a quarter-mile track, football fields, polo fields, cricket fields, baseball diamonds, and spaces for other games.

NITTANY AND SYRACUSE TEAMS IN SCORELESS TIE

(Continued from first page)
The game opened with Syracuse kicking off to Penn State, and the Lions at once showed signs of victory as they proceeded to make a first down. The necessary distance was not made on the next attempts and Palm was forced to kick to Simmons who fumbled on his own eight yard line. Here Bedenk recovered for Penn State and the Orange and Blue men dug in their cleats for a desperate struggle.
Penn State Falls to Score
Just then it looked as though six points were sure to be chalked up for Penn State. The Blue and White backs had already shown their ability to penetrate the Syracuse line. But the line was not then near the goal line. No matter how fierce was the attack of the Nittany Lion then, it was deemed that Syracuse should not retreat. Wilson and Palm each made a small gain and then Harry hurled himself against the left side of the line only to be stopped in his tracks. As a final effort, "Mike" Palm resorted to the famous running pass to Wilson. The pass was completed but Wilson was still back of the line of scrimmage and he was downed by the watchful Salt City players. Thus passed by Penn State's chance to score.
Zimmerman was here substituted for Simmons at quarterback. The dim-

utive 155 pounder lost no time in sending the ball from the dangerous territory, and kicking from behind his goal line he sent the ball to Palm who was down on his own forty-five yard line.
Penn State continued in the offensive, and a combination of Bedek's jump-shift formation worried the Syracuse team. Several more punts were exchanged after Penn State failed to gain and Syracuse commenced to punt and punt back to safety. Both teams were thrown for losses while attempting forward passes during this stage.
The Blue and White team then commenced another drive to the Orange goal. Wilson started the advance by two substantial gains, the first for eight yards and the next for eighteen yards. In these two rushes Harry demonstrated his ability as an open field runner slipping past several tacklers and carrying several more with him before being downed. Frank then passed a forward pass thrown by Palm from the arms of the enemy and placed it on the twenty-seven yard marker. However Syracuse held tight on the twenty yard line and the quarter was completed.
Zimmerman punted to Palm and the Lions attempted a third march down the field. One forward to Wilson netted ten yards. This was followed by a carry back from Palm to Wilson, who crossed the ball for another short gain. Palm then tried a dropkick which was low and was blocked by Syracuse.
After several attempts at the line, Syracuse punted and Palm returned the pigskin some distance in an exhibition of open field running. A forward to Krutz was successful, but Syracuse stiffened against the next attack and Palm punted out of bounds on the Syracuse four yard line. Zimmerman immediately punted.
Palm attempted another forward pass which was intercepted by Fitz and the Syracuse guard carried the ball twenty yards to the thirty-five yard line before being downed. Syracuse again failed to gain and Zimmerman attempted a place kick which was low. Harry Wilson blocked it and recovered the ball to return it to the fifty yard line. An attempted forward was unsuccessful and Palm kicked to Syracuse.
Syracuse Starts Drive
The Orange lads made their initial first down at this time and continued to make several more before the half ended. Using a fake pass and kick formation several more ten yard marks were passed by until the ball rested on the thirty-one yard line.
Zimmerman kicked off to Wilson who caught the ball on the ten yard line and advanced it fifteen more before being stopped. Penn State did not make the required gains in the next 3 plays and Palm punted to Zimmerman who eluded the Penn State tacklers until he had returned the ball twenty yards. With only a half yard to make on the fourth down, Syracuse was held and the ball again reverted to the Nittany team near the thirty yard line. Patton here replaced Palm who was injured.
On an exchange of punts Patton eluded the ball to pass him and he recovered on the ten yard line. He then punted and Syracuse attacked again. Hebenk smashed the next few plays and Zimmerman elected to try a dropkick from the thirty-five yard line. It went high and wide and the ball was Penn State's on the twenty yard line. Attempts to gain were fruitless and Patton kicked to Zimmerman who ran back fifteen yards.
The next three plays netted Syracuse another first down. Furgoone gained the necessary ground through center. Syracuse fumbled and it was Penn State's ball on the fifteen yard line.

Penn State Advances
Patton circled right end for twelve yards. Krutz made three more through left tackle. Wilson made six more and Krutz crashed through left guard for another first down.
Wilson made one yard on a delayed pass. A pass to Wilson fell short. Patton tossed another to Wilson for seven yards. Patton kicked to the Syracuse twenty-yard line. Zimmerman likewise punted when his team was thrown for a loss. The ball then remained in the center of the field while Penn State made its last desperate attempt to break the deadlock.
The line-up:
Penn State (0)
Hufford LE
McMahon LT
Hebenk LG
Hamilton C
Flock RG
Schuster RT
Frank RE
Palm QB
Wilson LHB
Krutz RHB
Slinger FB
Syracuse (0)
Jappe
Starobin
Van Blarcon
Heers
Fitz
Waldorf
McRae
Simmons
Furgoone
Anderson
McBride
Substitutions: Penn State: Patton for Palm, Benz for Flock, League for McMahon, Syracuse: Zimmerman for Simmons, Basinger for Van Blarcon, Kellar for McBride.
Referee—C. J. McCarthy, Germantown; umpire—W. G. Crowell, Swarthmore; field judge, E. C. Taggart, Rochester; head linesman, M. J. Thompson, Georgetown. Time of periods—15 minutes.

FINAL SALE OF 1923 ANNUAL IS ANNOUNCED
A special sale of the 1923 La Vie will be held at the Athletic Store on Wednesday night from six-thirty to eight o'clock, for the benefit of those who have not yet purchased a copy. A number of the 1923 classmen have not yet purchased their copies and this will be the last opportunity to secure one. The La Vie is one of the main activities of the Junior class and it is the duty of every member to support it.
This issue of the La Vie is one of the most complete class books that has yet been compiled, containing as it does a complete resume of all the activities of the college during the last year to-

gether with the usual pictures of the Junior class, fraternity and society groups, and various campus organizations.
There is a growing custom in a number of colleges for each student to purchase a class book for each of his four years in college. Accordingly the sale on Wednesday night will be open to anyone who desires a copy.

LOST—Elgin wrist watch bearing the initials, R. P. S. on strap. Finder please notify Collegian office.

ducting research on weed destroyers. A chemical has been discovered that will destroy a great many varieties of weeds and this compound is used to a great extent by railroads to kill weeds along the tracks. But there are some weeds which will resist even this powerful destroyer and it is part of Halderman's problem to discover a chemical means of exterminating these plants. He is now studying the different varieties and species of weeds to be found in different parts of the country and spends considerable of his time in traveling, being in Texas at present.
Raisin Sugar Problem
One of the most interesting problems, and perhaps one of the most valuable, studied by the "Chem Aps" last year was prosecuted by A. B. Lauderlich who was working for his Master's Degree. This problem had to do with the sugar content of raisins. Two-thirds of the world's raisin supply is produced in California, and up until last year the raisin manufacturers had no way of determining the sugar content of raisins sold to them by the raisin growers on the basis of weight, which of course can be easily affected by the addition or subtraction of water. Professor Dutcher was requested by the raisin men to endeavor to find a quick and simple method for determining sugar content of raisins while they are being unloaded at the factories. This meant the development of a process that would determine the average amount of sugar in the raisins fairly accurately within fifteen minutes.
Professor Dutcher, on returning to Penn State, designed and constructed with the aid of Professors Fessenden and Bradford, of the Engineering Department, a machine that would shred the raisins to such minute pieces that they would remain in colloidal suspension almost indefinitely. This in itself has proved to be a development of the highest value, since the machine enables one to grind not only raisins, but other materials, under water and to put them into a colloidal state, which greatly enhances the extraction of enzymes, and other colloidal materials and sugar, from organic compounds. One of the greatest colloidal chemistry experts in the country has secured a design of the machine from Professor Dutcher so that he may use it in his researches in colloidal chemistry.
With this machine, Lauderlich be-

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GIRLS' VAUDEVILLE SHOW IS PRONOUNCED SUCCESS
(Continued from first page)
A comedy skit, "Gallagher and Sheen," in which Wise and Winard participated brought down the house, while "Dinky" Cannon '25 kept the crowd in good spirits by a clever presentation of a song act entitled "All for the Love of Alice." Itayl and Vannoe performed splendidly on the violin and piano, and Lockwood put on a clog dancing act worthy of a professional. Grace Hatfield's whistling act, accompanied by Taylor on the piano, was an evening's entertainment in itself. Rustay showed rare ability as a cartoonist by his humorous and popular sketches.
Ruch and Jones staged a pleasing presentation of an act from "Chauve Souris" while Miss Ruby White, formerly of State College and now a professional dancer, gave a splendid exhibition. "Sham," a comedy of society, was presented in an able manner by a cast including Mary Ferguson, McCarrel Greathead, Austin Blakelee and Alvin Proutfellow. A popular song revue by William O'Donnell and a company of pretty girls concluded a delightful evening's entertainment. Auch-linclair's Reminders rendered various selections from the acts characteristic of the high class music this local orchestra has been putting forth. Their services were given entirely free of charge in order to help the girls raise their quota of the endowment fund.

CHEMICAL AG STUDENTS DO VALUABLE RESEARCH
(Continued from first page)
soil acidity. This result alone should prove of considerable help in solving fertility problems, and it is expected that the further prosecution of the problem will yield facts of equal value.
Halderman is now with the Chikman Chemical Company, manufacturers of all kinds of weed destroyers, insecticides, and similar chemicals, and is con-

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ANOTHER COUNTY IS "OVER THE TOP"
Adams has joined Cambria in the List of the Elect WHO'S NEXT?
That little Polo Grounds Fracas has made the Nittany Lions fighting mad---But the Navy Goat is also mad and has nothing to lose and everything to win.
It's the same way with Penn State's \$2,000,000 Campaign, except that there is EVERYTHING to win with success and EVERYTHING to lose with failure!
Let's GET MAD and Let's GO!

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gan work on the sugar-determination problem, grinding the raisins in hot water and thus dissolving the sugar. The filtrate of the sugar solution is then tested in a colorimeter which compares the colors of the various standard sugar solutions with that produced by the percentage of sugar under consideration. By this method the amount of sugar contained in the raisins delivered by the farmer can be determined within nineteen minutes, while he is unloading. The raisin manufacturers state that they can save thousands of dollars by this system. But Professor Dutcher and others have been continuing work on the problem begun by Lauderlich, and believe that they have discovered a way to determine the sugar content by the use of the refractor-tor, in seven to ten minutes. In any event, the machine for grinding the raisins will be used no matter which of the two methods is found more desirable, and the raisin manufacturers are already considering the installation of the apparatus in their factories.
Other students and faculty members in the department have been and are carrying on interesting and valuable experiments along this line, and it is probable that a report of their activities will appear in the next issue.

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