

PENN STATE TRIPS TOUTED NAVY ELEVEN

(Continued from first page) ed to Barchet on the Navy's 45-yard line. He ran it 10 yards. Barchet's forward pass was batted down. Conroy almost fumbled, but got 2 yards through the line. A double forward pass was grounded.

For interference, the Navy was given a first down on State's 39-yard line. Koehler's long forward pass fell on the wet field just out of reach of a Navy man. Conroy got 2 yards through center. Baer intercepted a short pass on State's 37-yard line. Wilson hit right tackle for 5 yards, and Lightner got 4 yards and a first down at the right side of the line. Killinger ripped off 11 yards at left tackle. Lightner got 2 yards on a delayed pass.

Barchet intercepted Killinger's pass and was downed on the Navy's 25-yard line. A Navy pass gained 4 yards. Noyes rebounded Barchet in the Navy backfield and gained 5 yards at right tackle. Koehler gained 2 yards as the half ended, with Penn State enjoying a 13-7 lead.

Off-Side Costs Touchdown Navy again tried a short kickoff, but State got it on its own 47-yard line. Killinger got 7 yards at left end and Wilson 2 at right tackle. Wilson made it a first down on a 2-yard crack of center. Killinger hit right tackle for 5 yards. Larson tackling him. Lightner, on a delayed pass, got 5 yards at center and a first down. Wilson peeled off 2 yards at right end and Killinger got 3 at left tackle. Wilson was smeared by Larson without gain.

Killinger shot a forward pass to Knabb for 10 yards and a first down. Killinger was thrown for a 4-yard loss by Noyes on a try at left end. Lightner shot through center for 6 yards. Killinger ran 24 yards to the goal line, but State was offside on the play and the ball was taken back to the Navy's 22-yard line. Killinger fumbled, but recovered for a 2-yard loss. Killinger's forward pass grounded and the Navy took the ball on its own 24-yard line.

Noyes hit center for 4 yards. Killinger intercepted a long pass on State's 45-yard line, where he was downed immediately. Killinger got 3 yards at right tackle. Larson spilling him. Wilson on a double pass got 6 yards at right tackle. Lightner got 1 yard at center and a first down.

Killinger made a 5-yard gain, but State was guilty of holding, and the ball was taken back to State's 49-yard line. Killinger was almost loose, but Parr spilled him after a 2-yard gain. Wilson cracked right guard for 3 yards. Killinger to Hufford, gained 7 yards.

Navy Unable to Gain Killinger punted to Noyes, who was downed on the Navy's 17-yard line by Hufford. Noyes could not gain an inch at center. Navy tried a long forward pass. Parr running out of bounds, and then back on the field of play, but he missed the ball. Noyes got 2 yards at right end. Killinger took a punt and slipped on State's 45-yard line, where he stopped running.

Killinger, on two plays, gained 11 yards at the left side of the line. Wilson jabbed right tackle for 3 yards. Killinger sprinted around right end for 4 yards, and Wilson got 3 yards through right guard and first down. Lightner fumbled and recovered for a 5-yard loss. Lightner passed to Killinger for 5 yards, but State held on the play and was smeared for a 1-yard loss at left tackle. Taylor making the tackle. Killinger got 3 yards at right tackle, then

punted to Navy's 6-yard line, where Barchet was downed by Frank. Koehler got 5 yards through the line. A line play gained but 1 yard for the Navy. Noyes tried a double pass and run and lost 2 yards.

Barchet punted from the goal line to State's 45-yard line. Killinger ran it back 5 yards just as the period ended with the ball in mid-field.

Middles Begin Drive At the start of the fourth period, Wiedorn went in for King again on the Navy line. Wilson was thrown for a 1-yard loss at right tackle, but Killinger got the yard back at the same spot. Hufford dropped a long forward pass from Lightner. He had a clear path for a touchdown. Killinger punted over the Navy's goal line and the Middle States started at their twenty-yard line. Cruise replaced Hamilton in the Navy backfield.

On a split formation, Barchet got six yards at center and followed it with five yards and first down. Noyes got around right end for five yards, and after slipping on the next play, got seven yards at right tackle and a first down. Barchet failed at left guard, Baer smearing him. Killinger intercepted a Navy pass on State's thirty-five-yard line. Wilson got one yard through the line. Killinger tried right end, but Taylor dropped him for a two-yard loss.

Conroy all replaced Knabb in the State backfield. State's first substitution, Wilson got 10 yards and a first down. Conroy lost 1 yard and Killinger failed at right tackle. Wilson, on a double pass, went through right tackle for 9 yards. Killinger punted to Noyes, who was downed on the 8-yard line. Cruise failed at left tackle, running out of bounds. Barchet got loose at left end for 17 yards, and then reeled off 10 more around left end.

Redings took Lightner's place in the State backfield. Noyes got 1 yard at left tackle. Barchet slipped thru the line for 10 yards and a first down. Noyes failed at left tackle. Noyes, on a delayed pass, got 4 yards at left tackle. Barchet skirted left end for 7 yards and a first down. Koehler hit right tackle for 4 yards and Barchet got through right tackle for 8 yards and a first down, putting the ball on State's 38-yard line.

Navy's Drive Falls Frank was hurt and McCollum took his place at left end for State. Noyes got 1 yard at right tackle. Koehler smothered right guard for 5 yards. He was injured on the play, but soon jumped to his feet. Barchet, on a split formation, got 3 1-2 yards at center falling on a first down by 1 foot, but Barchet got first down on the next play with a 2-foot gain. Koehler got 4 yards at left tackle.

Noyes picked up two yards at the same spot. Noyes got 1 yard at right tackle. Barchet tried center, but gained but 2 yards, and State took the ball on downs on its own 18-yard line. Wilson and Killinger got a first down in two plays and after Wilson and Killinger got 7 yards on two line plunges the game ended. Score—Penn State 13, Navy—7.

The line-up Penn State: Navy: Parr left end, Penn State; Bolles left tackle, Hills; Carney left guard, Baer; Larson center, Bentz.

Fravloy right guard, Bodenik; King right tackle, McMahan; Taylor right end, Hufford; Conroy quarterback, Killinger; Koehler left half, Wilson; Hamilton right half, Lightner; Maichet fullback, Knabb.

Touchdowns: By Navy—Barchet. By Penn State—Killinger, Lightner. Goals from touchdown, By Navy—Ditchet. By Penn State—Lightner. Substitutes—By Navy: Wiedorn for King, Noyes for Conroy, King for Wiedorn, Wiedorn for King, Cruise for Hamilton.

By Penn State—Cornwall for Knabb, Redner for Lightner, McCollum for Frank.

Referee—Al Sharpe, Yale. Umpire—J. A. Evans, Williams Field Judge—R. W. Maxwell, Swarthmore. Head Linesman—C. G. Eckles, W and J. Time—15-minute periods.

IMPRESSIVE EXERCISES MARK ARMISTICE DAY

(Continued from first page) his last drop of blood for us." Pakenham Gives Soldier Viewpoint T. C. Pakenham who served as an officer in the British army throughout the war and who is now an instructor at Penn State and also the varsity soccer coach, then told of the drama of peace which the soldiers kept before them at all times while fighting.

Mr. Arthur Dealing of the English Department and a Major in the United States service during the war, gave the main address on the subject of "Unknown Heroes." He spoke of the significance of the Unknown Soldier as a symbol that will lift up the ideals of the nation.

Two Minutes of Silence Just after the completion of Mr. Deering's address the clock struck noon and the whole audience arose, and with bowed heads kept silent for two minutes when the whole nation stopped to meditate on the Unknown Soldier and its significance. The program was then completed by the singing of the "Star Spangled Banner" and the pronouncing of the benediction by Professor G. F. Mitch.

WORLD CONCLAVE OPENS ON LIMITATION OF ARMS

(Continued from first page) battleship, ready for christening. This would decrease tonnage valued at \$30,000,000. Under this arrangement, Great Britain would be expected to scrap twenty-three ships making a tonnage of nine hundred thousand tons, and Japan would scrap four hundred fifty thousand tons of capital fighting naval

apparatus. Great Britain would also cancel four new Hoods that the English are about to build and Japan would give up her plans for four cattle cruisers and four battle ships about to be built.

Then came another Hughes bombshell. America would banish the super-dreadnaught—the 43,000-ton—all big gun type of the present day and that all capital ships over a tonnage of 35,000 shall be tabu. Also, the plan involved a cutting down in the number and tonnage of auxiliary, combatant craft.

America Speaks The plaudits that the Secretary received as he delivered his message carried an impressive silence with it on the part of the nation's visitors for it typified the voice of the American people in no unmistakable tone. The United States wants to do more than evince a practical readiness to lead the world in this movement, it emphasizes the fact that another orgy of war will not find creation in the will and thought of America.

NOT ENOUGH INTEREST SHOWN IN CHESS CLUB

The Chess Club has recently issued a strong call for members because of the lack of interest which has been displayed in the actions of the organization this year. Several requests from other institutions have come in to the president of the club for intercollegiate matches and it is imperative that all students interested in chess report to R. M. Spengler, 528 Main, immediately.

The University of Pittsburgh has asked for a game that was carried over from last year and Carnegie Tech is also desirous of securing a match with Penn State. In addition, an invitation has been extended to the club to take part in intercollegiate tournament which will be held in New York City at Christmas time under the auspices of the Intercollegiate Chess Club. A four men team will be sent, if of interest is aroused here. A correspondence game has also been proposed by New York University.

GRADUATE ENGINEER IS WORKING IN CALIFORNIA

Mr. Arthur P. Miller, a graduate in Sanitary Engineering, 1920, who has been employed as Assistant Engineer with the U. S. Public Health Service since graduation, has been transferred from Yellowstone Park to San Francisco, Cal.

DR. ANDERSON RETURNS FROM ANNUAL CONGRESS

Dr. Anderson, Head of the Department of Education and Psychology returned from Harrisburg on Saturday where he had been in attendance at the Third Annual Educational Congress. He reports that the meetings were held on Thursday, Friday and Saturday, November 10, 11 and 12, under the direction of the State Department of Public Instruction "Rural Education" is the subject to which the Congress gave consideration.

The discussions included the organization, location, administration equipment, and the teaching staff of the rural community school, as well as its courses of study and its relation to home, church, industry and citizenship. The speakers presented their topics clearly and convincingly. The consolidated school was presented as the means for providing to the boys and girls in rural communities their rightful educational opportunities.

Since last August first, consolidation of schools in Pennsylvania has proceeded at the rate of one each day. Prospects are favorable for their extension and improvement. On Friday evening the Congress joined with the American Legion and the Veterans of Foreign Wars of Harrisburg in the observance of Armistice Day. The speaker on this occasion was Frederick M. Davenport, Ph.D., LL.D., Professor of Law and Civil Policy, Hamilton College, and member of the New

COLLEGE CELEBRATED FIRST ANNIVERSARY OF ARMISTICE

On November 11, 1919, Penn State celebrated the first anniversary of Armistice Day in a fitting manner. Classes were held in the morning and afternoon as usual, with the exception of a recess the last two hours in the morning. At 11 a. m., the hour of the announcement of the Armistice, the flag was raised on the campus flag pole. The cadets and former service men appeared in uniform for a short but impressive ceremony, the service consisting of a salute to the flag. There were no speeches at the time.

HOCKEY LEAGUE ORGANIZED BY FIVE EASTERN COLLEGES

Representatives of five leading colleges of the East have organized the Intercollegiate Hockey Association which will serve as a governing body for all games played between members. The colleges represented in the organization are Harvard, Yale, Princeton, Pennsylvania and Dartmouth.

GEORGE WASHINGTON UNIV. ADOPTING HONOR SYSTEM

An honor system for George Washington University is being evolved and its constitution is being drawn up by a student committee to be submitted to the Student Council for approval.

Honor systems of several large colleges are being studied by the committee for ideas. The system will be introduced by the student council and various sub-committees will assist in the application of the new rules.

STUDENTS' EXCUSES MUST HAVE PARENTS SIGNATURE

According to a recent ruling made by the college authorities at the University of Toledo, absence excuses of students must be signed by the parents or guardian of the student concerned. The Times, the official newspaper of the institution, made the following comment on the ruling: "Imagine a Senior chiving home with his absence excuse waiting for fond parent to sign same."

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Oliver B. Shallenberger IT IS ONE THING to produce a new idea that is simply of theoretical interest. It is another to make the new idea into a commercial success. This is the story of Oliver B. Shallenberger, and how in 1888 he discovered the principle that led him to invent the watt-hour meter, the familiar little device that makes practicable the commercial distribution of alternating current, which means 95% of all the electricity that is distributed. Shallenberger, who resigned a Naval commission to take up his work with Westinghouse, made his discovery while experimenting with a newly devised alternating current lamp. His attention was attracted by the behavior of a small spring which had fallen upon the main magnet of the lamp, into such a position that the forces proceeding from both the magnet coil and the extended soft iron core affected it. And the simple little thing that he noticed was merely that the spring was slowly rotating! But to the intelligently curious observer, that was enough. Further experiments having satisfied him that the action was caused by alternating electric currents, he set to work, encouraged by his knowledge of Westinghouse policies, to make practical the newly found principle. Three weeks of almost uninterrupted toil, and he had produced the first practical alternating current meter of the induction type—the universal type of the present time. Thus for the first time the measurement of the quantity of alternating current passing through a line was made commercially practicable and its distribution became possible from an economic as well as an engineering point of view. In fact, the whole structure of our great power systems depends upon the accurate measurement, by millions of such meters, of the electricity used in the homes and industries of the nation. So well was Shallenberger's work done, and so complete was his conception of the possibilities of his discovery, that for more than thirty years his fundamental idea has been in use in many and various forms. The encouragement which Westinghouse has always given to new ideas, and the judgment with which they have been evaluated, are nowhere better exemplified than in this story of the alternating current meter. Westinghouse