

A TALE OF TWO TEAMS

Lehigh	0	7	0	0	7
Penn State	7	7	0	14	28
Touchdowns					
Penn State 4				Lehigh 1	
Goals From Touchdown					
Penn State 4				Lehigh 1	
First Downs					
Penn State 14				Lehigh 7	
Punts					
Penn State 4				Lehigh 7	
Average 47 yards				Average 42 yards	
Forward Passes					
Penn State	Attempted 7	Successful—3	for 21 yards	Intercepted 1	Lehigh Attempted 18
					Successful—7 for 67 yards
					Intercepted 2
Penalties					
Penn State	30 yards			Lehigh	12 yards
Field-Goals					
Penn State	Attempted 1	Successful 0		Lehigh	Attempted 0
Yards In Scrimmage					
Penn State 298				Lehigh 68	

PRODUCTION TOPIC OF ENGINEERS CONFERENCE

Importance of Standardization and Time Study Emphasized by Well Known Engineers

From the standpoint of engineering and industrial progress, the conference held during the past week at the college was highly successful and should prove to be one of the best that was ever held under the auspices of this institution. This conference consisted of three distinct parts because each part had its contributor who dealt with certain topics and is recognized in the world of engineering as an authority.

The principal speaker of the first part of the program was Mr. L. W. Wallace, Secretary of the Federated American Engineering Societies in Washington. The first prominent position that Mr. Wallace held was that of Prof. in Engineering School at Purdue University from where he went to Baltimore as Director of the Red Cross Institute for the Blind. Soon after he became President of the Society of Industrial Engineers, which position he has held ever since. His address was concerned with the part that the engineer will play in the future development of industry in this country.

The second paper was read by Frank Gilbreth of Montclair, New Jersey, who is an industrial engineer of the first rank. Mr. Gilbreth has devoted himself to the study of standardization as a means of reducing the cost of production and in this work has used the moving picture machine in time study of a man or by changing a machine in order that greater production may be obtained with a saving of time and of effort. He is also a pioneer in the application of the moving picture machine to the needs of industry. An interesting feature of this part of the program was the discussion led by Mrs. A. Gilbreth who is the only woman that has been honored by membership in the Society of Industrial Engineers.

The third topic was presented by Mr. Alfred D. Flinn of the National Research Council and Secretary of the United Engineering Societies in New York. Mr. Flinn is an author of prominence and his books on water works engineering have gained for him unusual recognition in this branch of industrialism. The subject of his talk was an elaboration of the contribution which the college trained technical man can make in the interest of engineering research work.

After the close of this program, the guests of the college and all attendants of the conference were invited to inspect the New Mechanical Engineering Laboratory. The general arrangement, the lighting, and the general architectural appearance was admired.

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SOCCER ENJOYS BOOM AT CORNELL UNIVERSITY

With the return of the captain of last year's basketball team, the number of soccer candidates reached the sixty mark and the prospects for a winning team jumped fifty percent according to the Cornell Daily Sun. Most of the men in question and he played a stellar role last year in the position of goal tender.

With the cooperation of the Military Department, arrangements have been made to incorporate soccer as a part of the military training program for underclassmen and beginning with November, all freshmen and sophomores will be required to spend one half an hour at this sport at the end of each drill period. This plan is intended to stimulate interest in soccer at the institution and to aid in uncovering material for the varsity aggregation.

PLAYERS WIN APPLAUSE AT FRIDAY PRODUCTION

Elizabethan Play Given Through Out Day on Different Parts of The Campus

On Friday one of the novel features of the inaugural parade was the float of The Penn State Players. The Players went back to the top of Elizabeth for their inspiration and depicted in pantomime one of the St. George and the Dragon plays which were so popular among the guilds a that time. In the afternoon then to wagon was dragged about from place to place on the campus and the performance was given with minute accuracy to the details of the period. Elizabethan drama. The unique performance was very favorably by the college family and the guests. The performance was commented on it said that it was one of the cleverest interpretations that he had ever seen of the Elizabethan stage.

On Saturday evening at the Women's Building, The Players put on a very clever little one act play, "Fame and the Foot" by Lord Dunsy. It is intended to include the performance in The Players' repertoire that will play over the state during the coming season. The next showing of it will be in the University Club Saturday night of this week. The part of the poet was admirably taken by Mr. Arthur C. Clootching, Director of The Players. A dreamer and an idealist, he poe waits for fame to come to him but indeed she is slow to heed. Fame comes in—the role is very well played by Mr. David Mason '22—and tis the poet that he is all wrong, but then of course fame could never understand. After he has gone the poet goes to thinking it over and he thinks that perhaps he has been all wrong. Ring he goes to the little altar where he keeps all his verses—determination has seized him—he is all wrong—and he will destroy them, every one of them, and there stands fame, in her white robes

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ENGINEERS LEAD IN M. A. C. LAST ENROLLMENT FIGURES

Last registration figures give the engineering students the lead in numbers with the agricultural students and the co-educational students following in the order named. According to these figures, there are five hundred and thirty enrolled as engineers, five hundred and seven as agrs and the co-eds with nearly four hundred

Next week rehearsals will begin again on "Nothing But The Truth." It is planned to stage the production the third week in November. It has been under rehearsal for two weeks and marked strides have been made in working it up to the usual Player standard. The leads, Mr. Austin Blackwell '23 and Miss Esther Holmes '24, are interpreting their roles very well and it is expected that it will be a very strong production. Mr. Joe Eitor '23 as the Bishop Doran and Mr. Donald Bauder '22, as Mr. D. M. Ralston '23 are bringing out the very best that is in their roles. And so, on might each member of the cast be cited for individual recommendation.

Also next week under the personal direction of Mr. Arthur C. Clootching, rehearsals will be started on "The Perfect Woman," a one act play by Mr. J. Gordon Amend. The Dear Dear Departed by Stanley Houghton is to be added to the repertoire. Announcement of the casts of these two shows will be made later.

This season the most extensive plans that The Players have ever made have

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Nikola Tesla

THE NAME OF Nikola Tesla will always be associated with the invention and earlier developments of the induction motor. In fact, at one time this type of apparatus was known almost exclusively as the "Tesla" motor.

Tesla devised this motor back near the beginnings of the electrical business, when practically everything was built by "cut and try" methods, and none of the accurate analytical processes of later days had been developed. It may be said broadly that Tesla knew two fundamental facts—first, that if a magnet were moved across a sheet of conducting metal, it would tend to drag this metal along; and, second, that the effects of such a moving magnet could be produced by suitably disposed polyphase currents acting on a stationary magnetic structure.

Perhaps others, at that time, also knew these two facts, but if so, apparently they knew them only as two isolated facts. Tesla considered them in combination and the result was the Tesla motor, or what is now known broadly as the "induction motor." These two facts, in combination, represent a fundamental conception, and all of the many millions of horsepower of induction motors in use today throughout the world, are based upon these two fundamentals.

Naturally, Westinghouse, having fought single handed to advance the alternating current system, was supremely interested in the new type of motor. What if the new motor did require polyphase circuits, while all existing circuits were single phase? What if it did require lower frequency than any existing commercial circuits? These were merely details of the future universal alternating system. The important thing was to obtain an ideally simple type of alternating current motor, which Tesla's invention offered. Tesla furnished the fundamental idea.

He and his associates, working for Mr. Westinghouse, proved that thoroughly operative induction motors could be built, provided suitable frequencies and phases were available. What matter if they did not produce an operative commercial system at the time? What matter if it needed the powerful analytical engineers of later date to bring the system to a truly practicable stage—men with intimate constructive knowledge of magnetic circuits—men on intimate terms with reactive coefficients and other magnetic attributes totally unknown to Tesla and his co-workers? In time the motor was made commercial, and it has been a tremendous factor in revolutionizing the electrical industry.

Probably no one electrical device has had more high-power analytical and mathematical ability expended upon it than the induction motor. The practical result has been one of the simplest and most effective types of power machinery in use today. Thus Tesla's fundamental ideas and Westinghouse's foresight have led to an enormous advance in the world's development.

Westinghouse

