

**Fine Victory Over Swarthmore.**

In the most exciting game of the season State's varsity five defeated Swarthmore in the Armory last Friday evening. It was another instance of "State" pluck and spirit, as Captain Waha's men were outweighed by the veteran Swarthmore representatives.

As Referee Moorehead tossed up the first ball the wearers of the "Garnet" got going at a terrific clip, but on a foul by Kreuger, Waha tallied the opening point for State. The continual fouling of Kreuger placed the visitors at a disadvantage all through the contest. Then Swarthmore began a beautiful passing and dribbling game which State's men seemed unable to fathom until the score stood 6 to 1 against our team. In a splendid rally Funston and Herman turned the tide by three clean field goals, and the first half ended 9 to 8 for State.

Both teams started the second period with whirlwind speed, and after five minutes of strenuous play Funston set the "State" yells echoing by a fine goal. At one time the score was 20 to 14 for State, but the clever play of the visitors turned the tide. Griffin's wonderful shot from mid-floor tied the score in the last minute of play. A double foul was called and Waha scored after Dill had missed, bringing another hard fought victory to "Old State."

After their recent hard and discouraging trip, our team is to be heartily congratulated upon this victory. The manner in which State's plungers dodged and darted through the defense of the visitors was worthy of all the applause received. We are proud of our basketball team and are confident that the season will now close with nothing but victory.

SWARTHMORE 20 STATE 22  
 Dill (Capt) ..... forward..... Herman  
 Griffin, ..... forward..... Ticknor, Ross  
 Krueger..... center..... Waha, (Capt)  
 Swayne, Kline..... guard..... Funston  
 Booth, Krider..... guard..... Dubarry, Barnett  
 Goals from field—Funston 4 Ross 1, Horman 2,  
 Kruger 2, Dill 3, Griffin 4, Swayne Foul goals—  
 Waha 8. Time keepers—Rogers, Swarthmore,  
 and Harding, State. Time of halves—20 minutes.  
 Referee—Moorhead ex '08 of State.

**An Electrical Test.**

Last Friday evening after the basket ball game a rather interesting efficiency test was run on the machines of the Electrical Engineering Department by Prof. Dunn, in McAllister Laboratory. There were some seventy machines to be tested, and the learned professor feared that he would have to call on the Nittany Power Co., in addition to the regular college plant, to get the juice necessary for carrying full load. When the time came, however, he tightened his circuit breakers, put the governors out of business, and ran the test through in fine shape.

The machines were all tested at the same time, being connected in a series-parallel arrangement, with the operating switches in the centre of the circuit. Each machine had connected to its internal windings instruments for measuring the pressure and load, which were recorded automatically. When Prof. Dunn gave the signal to start the test, the main operating switches closed, and the load was applied as follows:

- |                              |                                  |
|------------------------------|----------------------------------|
| Consume                      | Wattmeter?                       |
| Olives                       | Pickles a la caracteristique     |
| Oscillograph                 | Transformed Potatoes             |
| Oysters                      | Spark Gap Balls                  |
| Bread a la Lamination        |                                  |
| Condenser Rolls              | Sine Wave Jelly                  |
| Frozen Field Cream           | Insulated Cake                   |
| Demi tasse (transformer oil) | Radiation Cigars--<br>Cigarettes |
| Musique Commeillefant        |                                  |

The machines all acted admirably, considering the conditions, although it was observed that a special heavy duty motor handled by Bottles & Co. took considerably more than its rated load. When full load had been applied it was noted that nearly all the armatures smoked. Several times during the test four alternators rendered fine music by running in parallel. As a suitable finish, the greater part of the machines were connected in pairs and operated in synchronism with the music, while all joined in overcoming the resistance of "Ohm Sweet Ohm." The efficiency of the outfit was 123%.

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