

FARMERS CROSS STICKS WITH ENGINEERS TONIGHT

SKATERS WIN THEIR SECOND STRAIGHT IN OUTDOOR COMBAT Technology Beats Amherst 2-1 in Hard-Fought Game

Technology's hustling hockey sextet made it two straight by capturing last Friday's combat with Amherst 2-1 in the main event of the Braeburn Country Club Carnival. Lord Jeff showed unexpected ability, holding the engineers to a 1-1 tie during the first of the two 20-minute sessions. In the second half the wearers of the well-known Cardinal and Gray came back strong and were all over the ice. All goal drives were frustrated until Bill Cauldwell, with little more than a minute of play left pushed one in on a difficult side shot.

The summary: Technology—Taylor, Delaney, l.w.; D. MacNeil, c.; Cauldwell, Grant, r.w.; Duvernet, c.p.; N. MacNeil, p.; Nickle, g. Amherst—Sylvester, r.w.; Davidson, c.; Clark, l.w.; Metcalf, c.p.; Worcester, p.; Plympton, g. First Period—Davidson, Amherst, 3:30; Taylor, Technology, 15:35. Second period—Cauldwell, Technology, 18:45. Score: Technology 2, Amherst 1. Penalties: Worcester, Amherst, two minutes, tripping; Taylor, Technology, two minutes, tripping; Sylvester, Amherst, two minutes, slashing. Time: Two 20-minute halves. Referee: F. J. Ryan.

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PICK BOTH RELAYS FOR B. A. A. GAMES

Fast Quartet Will Stack Up Against Harvard in Mile Relay—Two-Mile Team All Composed of Harriers

MANY INDIVIDUALS ENTERED

Coach Frank Kanaly of the track team has finally picked the two quartets that will wear the Cardinal and Gray in the B. A. A. games, Saturday, at the New Arena. Yard Chittick, Bill Gurney, Ollie Bardes, and Mich Bawden, running in the order named, will face the Crimson one-mile relay team. The two-mile outfit, which takes the boards against Dartmouth and Syracuse, will consist of Billy MacMahon, Jack Hennessy, Carol Stone and either Snow or Flanders. The tie between the last two will be run off today.

The one-mile team is one of the fastest that ever represented Technology and although Frank Kanaly would not divulge the times made in the trials, he did admit that the outfit is speedier than last year's combination when Harvard was taken into camp without much difficulty. This shows that if "Pooch" Donovan's charges have not undergone a decided improvement they are due for another setback this Saturday.

Spitz' Absence Not Felt

Bawden and Bardes were both members of the quartet last year. Ted Spitz and Harry Junod were the other two of the winning team last winter. Spitz is one of the fastest quarter milers around the Institute but has failed to report for track this year. It is not felt, however, that his absence will handicap the team seriously since as a whole it is faster than last winter's. Chittick and Gurney are both flashes and were on the medley relay that took fourth place in last year's Penn Relay Carnival.

The two-mile team is composed entirely of men of cross-country fame. Frank Kanaly experienced a lot of difficulty in the selection of this outfit. In concentrating his attention on the shorter distance quartet, which is of prime importance, he had to pick men of relatively inferior ability for the half-mile distance. The team is not slow, however; in fact, it is as fast as ever represented the Institute in this event.

For the individual events about a score of men will be entered. Ted Bossert and Al Hayes will start in the 50-yard dash. They are the best century men on the team but are not particularly fast just at present Elmer Sanborn, who is next year's cross-country captain, will be entered in the classic Hunter mile.

FROM THE DATE BOOK

Tuesday, February 1 8.15—M. I. T.-M. A. C. hockey game. Arena. Wednesday, February 2 8.15—M. I. T.-Harvard basketball. Walker Gym. Friday, February 4 7.45—M. I. T.-N. H. State basketball. Walker Gym. 8.00—M. I. T.-Amherst, swimming, away. 8.15—M. I. T.-Columbia hockey game, away. Saturday, February 5 7.30—B. A. A. Games, Arena. 8.00—M. I. T.-Springfield wrestling. Walker Gym. 8.15—M. I. T.-Wesleyan swimming, away.

WIN ALL EVENTS

Palmer Takes 50 in Spite of a Bad Start

Troy has fallen. Before the onslaughts of the Institute mermen, three tank records were battered to pieces, and Rensselaer Polytech met a defeat of 44-9 Saturday night in its own stronghold.

Some spectacular swimming was shown in the 50, when one of the Trojans jumped the gun, and the referee tried to stop the three swimmers who started. Palmer was the only one, however, who heard the warning, and he paused for a second until it became obvious that the others were going to swim out the race. Then with over a second's handicap, Palmer took the water, and started to cut down the yards between him and the Rensselaer men. He passed one before reaching the turn, and passed Colton and the other on the last lap, taking first place with a time of 27 seconds.

Trowbridge broke the tank record for the 100 with 1.01, Greene, did the same for the 220 in 2.42 1-5, and Boyce for the plunge with 64 feet. Fifty Yard Dash: Won by Palmer, (T.) Colton, (T.) third. Time 27 seconds. One Hundred Yard Swim: Won by Trowbridge, (T.) Biddell, (T.) second. Time 1 min., 1 sec.

Two-Hundred Yard Swim: Won by Green, (T.) Getman, (R.) second; Brown, (T.) third. Time 2 min. 42 1-5 sec. Dive: Won by Ferdinand, (T.) Purinton, (T.) second; Grant, (R.) third. Plunge: Won by Boyce, (T.) Kendall, (T.) second. Distance 64 feet. Relay: Won by Technology, (Colton, Trowbridge, Palmer, Biddell.) Time, 1.45

ELECT TENNIS MANAGER

The following five men will be recommended for tennis manager by L. B. Davis '22 at the meeting this afternoon of the M. I. T. A. A. From these five, one will be elected: T. S. Craig, F. Dillon, E. H. Eacker, M. S. McGhie, J. E. Sal-loway. Davis was appointed by the M. I. T. A. A. to conduct the competition, which has been running several weeks, and he finished his work by giving the candidates in examination last Saturday, from which the five highest were picked.

CHESS CLUB WINS

The Chess Club Team scored another victory last Friday night when it defeated the Boylston Chess Club in a scheduled match at the Walker Memorial. The Chess Club is now second in the Metropolitan Chess League.

Columbia won from the Princeton basketball team by the score of 24 to 20. On the 15th Stevens lost to the team 27 to 30, and Cornell was defeated 19 to 12 on the 21st.

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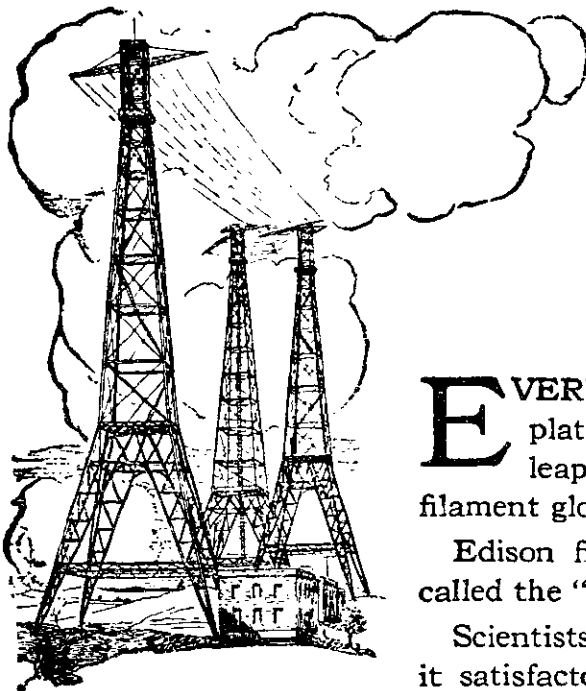
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EVERY incandescent lamp has a filament. Mount a metal plate on a wire in the lamp near the filament. A current leaps the space between the filament and the plate when the filament glows.

Edison first observed this phenomenon in 1883. Hence it was called the "Edison effect."

Scientists long studied the "effect" but they could not explain it satisfactorily. Now, after years of experimenting with Crookes tubes, X-ray tubes and radium, it is known that the current that leaps across is a stream of "electrons"—exceedingly minute particles negatively charged with electricity.

These electrons play an important part in wireless communication. When a wire grid is interposed between the filament and the plate and charged positively, the plate is aided in drawing electrons across; but when the grid is charged negatively it drives back the electrons. A very small charge applied to the grid, as small as that received from a feeble wireless wave, is enough to vary the electron stream.

So the grid in the tube enables a faint wireless impulse to control the very much greater amount of energy in the flow of electrons, and so radio signals too weak to be perceived by other means become perceptible by the effects that they produce. Just as the movement of a throttle controls a great locomotive in motion, so a wireless wave, by means of the grid, affects the powerful electron stream.

All this followed from studying the mysterious "Edison effect"—a purely scientific discovery.

No one can foresee what results will follow from research in pure science. Sooner or later the world must benefit practically from the discovery of new facts.

For this reason the Research Laboratories of the General Electric Company are concerned as much with investigations in pure science as they are with the improvement of industrial processes and products. They, too, have studied the "Edison effect" scientifically. The result has been a new form of electron tube, known as the "pliotron", a type of X-ray tube free from the vagaries of the old tube; and the "keneron", which is called by electrical engineers a "rectifier" because it has the property of changing an alternating into a direct current.

All these improvements followed because the Research Laboratories try to discover the "how" of things. Pure science always justifies itself.

General Electric Company General Office Schenectady, N.Y.