**NAME HOCKEY COACH**

**HARRIERS MEET**

Will Consider Plans For Next Season

Although the cross-country season is just finished, plans are already under way for next year. The first evidence of this is the exit which has been issued by Captain-Elect Sanborn for two meetings to be held Monday afternoon. These meetings will be held in room 18-501 and arranged so that a man may attend either one of two meetings. All those interested will be given an opportunity of registering and being included in the personnel list of the freshman squad. Anyone wishing to apply for assistant 'freshman manager' should also report at one of the above times.

**PICK SWIMMING TEAM**

A provisional team will be chosen from the swimming squad next week in order that the Technique picture may be taken at once. This team will probably be the same as that which will compete in the meets of the winter, but changes may be made later if necessary. It will be pictures taken of the fresh- men team at the time this squad is chosen.

Training for both varsity and fresh- men teams has started and the reports of the freshmen have been assembled, coach Hollows taking charge of these men on the teams. Captain Biddell of the rest of the men. The following are reported in Hobies: E. Palmer '22, C. H. Truscott '22, H. B. Cantor '22, C. D. Greene '22, H. H. Young '22, H. W. Atkinson '22, R. W. Ehrler '22, R. F. Brown '21, H. S. Carle '22, H. P. Jenoi '21, R. T. Willis '21, Burton '21, E. J. Thorne '22, R. A. Weber '22, and of the freshmen, A. W. Blattner, C. L. Dunne, W. C. Beach, H. H. Alminon '22, H. W. Baker, M. D. Holmes, E. C. Pathier '22, O. H. W. Alminton '22, H. W. Bacon, J. Evans, etc., L. F. P. Massachusetts. These men will probably form the team, although the squads each consist of about thirty men, and there will undoubtedly be substantial develop- ment before the first meet in January.

Election for freshman captain will take place next week. The captains' squads will be closed at the same time. There will be three, one for the freshmen and two for the sophomores. Three, election for assistant freshman manager will be made later.

**WHAT IS AIR?**

Before 1894 every chemist thought he knew what air is. "A mechanical mixture of moisture, nitrogen, oxygen and traces of hydrogen and carbon dioxide," he would explain. There was no nitrogen, oxygen and hydrogen in a given sample that he simply determined the amount of oxygen present and assumed the rest to be nitrogen.

One great English chemist, Lord Rayleigh, found that the nitrogen obtained from the air was never so pure as that obtained from a number of special air liquefaction plants. What was the "impurity"? In co-operation with another prominent chemist, Sir William Ramsey, it was discovered in an entirely new gas—"argon." Later came the discovery of other rare gases in the atmosphere. Air we breathe contains about a dozen gases and gaseous compounds.

This study of the air is an example of research in pure science. Rayleigh and E. Rayleigh had no practical end in view—merely the discovery of new facts.

A few years ago the Research Laboratories of the General Electric Company began to study the destruction of filaments in exhausted lamps in order to ascertain how this happened. It was a pure, scientific undertaking. It was found that the filament evaporated—boiled away. Let us look at the reasons:

- Pressure will check boiling or evaporation. If the pressure within a boiler is very high, it will take more heat than ordinarilly to boil the water. Would a gas under pressure prevent filaments from boiling away? If so, what gas? It must be a gas that will not combine chemically with the filament. The filament would burn in oxygen; hydrogen would conduct the heat away too rapidly. Nitrogen is a useful gas in this case. It does form a few compounds, however. Better still is argon. It forms no compounds at all.

- Thus the modern, efficient, gas-filled lamp appeared, and so argon, which seemed the useless gas in the world, found a practical application.

Discover new facts, and their actual application will take care of itself.

And the discovery of new facts is the primary purpose of the Research Laboratories of the General Electric Company.

Sometimes months must elapse before the practical application of a discovery becomes apparent, as in the case of argon; sometimes a practical application follows from the mere answering of a "theoretical" question, as in the case of a gas-filled lamp. Scientific research is not made unless research is conducted for the purpose of discovering new facts.

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