



Chippy Gaw has been named a referee for Arena games. Charley Foote, coach at Technology last year, is also on the list of arbiters.

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### NEEDS MANAGER

Tennis Team Has Tentative Schedule Prepared

One position on the M. I. T. A. A., that of tennis manager, is at present vacant. Due to a ruling of the M. I. T. A. A. a junior or a senior only may be manager of the team. With this vacancy, which must of necessity be filled immediately, candidates will be called out on January 5th reporting in Room 10-275 at 5 o'clock.

With the varsity material which was left over from last year, there is no doubt but what the team will make a good showing against its various competitors. A tentative schedule for the varsity has been prepared and is as follows:

April 30—Williams.  
May 4—Worcester Polytechnic.  
May 6—Dartmouth.  
May 14—Springfield.  
May 20—Harvard.  
May 21—Yale.

The management is at present preparing a trip, the first leg of which will be to New York to play Columbia. Thence to Princeton from which the team will proceed to Philadelphia to play the strong University of Pennsylvania team.

### BASKETBALL TEAM HAS STIFF LIST

Center College with Red Weaver And All-America Bo McMillin Scheduled to Show Here.

#### LOCALS UNCOVER STAR

After the delay in training caused by the Christmas holidays, basketball, both varsity and freshman will start off with a rush after school reopens on Monday. Manager Robert K. Thulman has arranged a stiff schedule for the five, which includes a game with the famous Center College of Kentucky, which will give Institute enthusiasts to see the famous McMillin-Weaver combination in action on the floor at Walker Memorial.

Other colleges have utilized the vacation for a trip for the net players, but the game has not yet advanced far enough at the Institute to warrant such an expenditure. Princeton sent its court squad on a wide swing up through Buffalo and the West, cleaning up as it went, while the Yale basketball team has been in action down around Pittsburgh.

A new find for the sport at Technology has been uncovered in Wallace Howe '22, who has been coached under Jack McDonald the famous star at the court game. Howe has been out for basketball but did not receive much attention until his record became known. He was one of the most recognized of the local schoolboy athletes and was a four letter man at his prep school. He was captain of the baseball team and was on the basketball, hockey and football teams. He is taking Course XIV, Electro-chemistry, at the Institute.

### PUSHING 'EM PAST

Technology's tries will make 'em sit up and take notice. Gray jerseys with a Cardinal hT, long stockings alternately striped Cardinal and Gray, white running trunks with Cardinal stripes.

H. L. Williams who played defense last year may not be in the last game as he doesn't expect to return from Lake Umbagog until the 10th.

The league teams will play six hockey this year but the colleges will play with seven men. Last year it will be remembered the narrow Pavilion surface called for the general adoption of the six-man game. The spread of ice at the Arena makes things a bit different.

## ROOMS

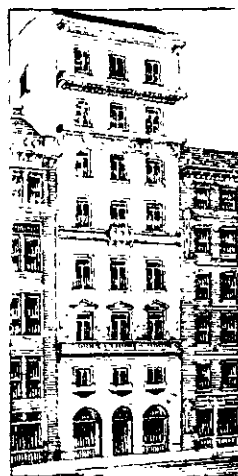
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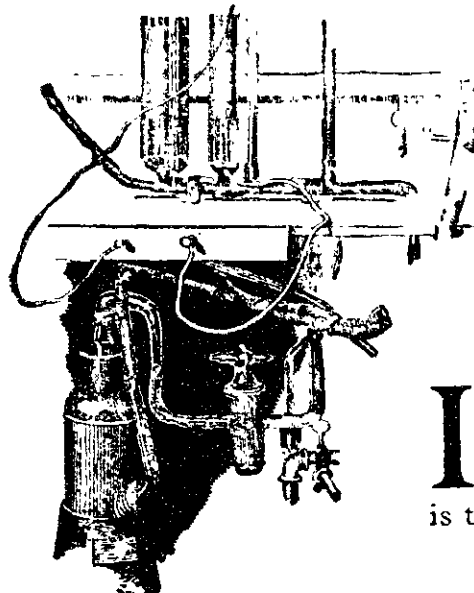
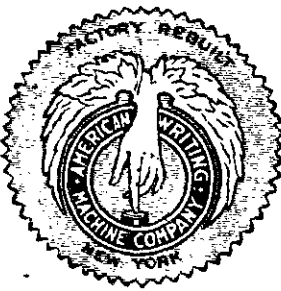
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## What Is Vacuum?

IF THE traffic policeman did not hold up his hand and control the automobiles and wagons and people there would be collisions, confusion, and but little progress in any direction. His business is to direct.

The physicist who tries to obtain a vacuum that is nearly perfect has a problem somewhat like that of the traffic policeman. Air is composed of molecules—billions and billions of them flying about in all directions and often colliding. The physicist's pump is designed to make the molecules travel in one direction—out through the exhaust. The molecules are much too small to be seen even with a microscope, but the pump jogs them along and at least starts them in the right direction.

A perfect vacuum would be one in which there is not a single free molecule.

For over forty years scientists have been trying to pump and jog and herd more molecules out of vessels. There are still in the best vacuum obtainable more molecules per cubic centimeter than there are people in the world, in other words, about two billion. Whenever a new jogging device is invented, it becomes possible to eject a few million more molecules.

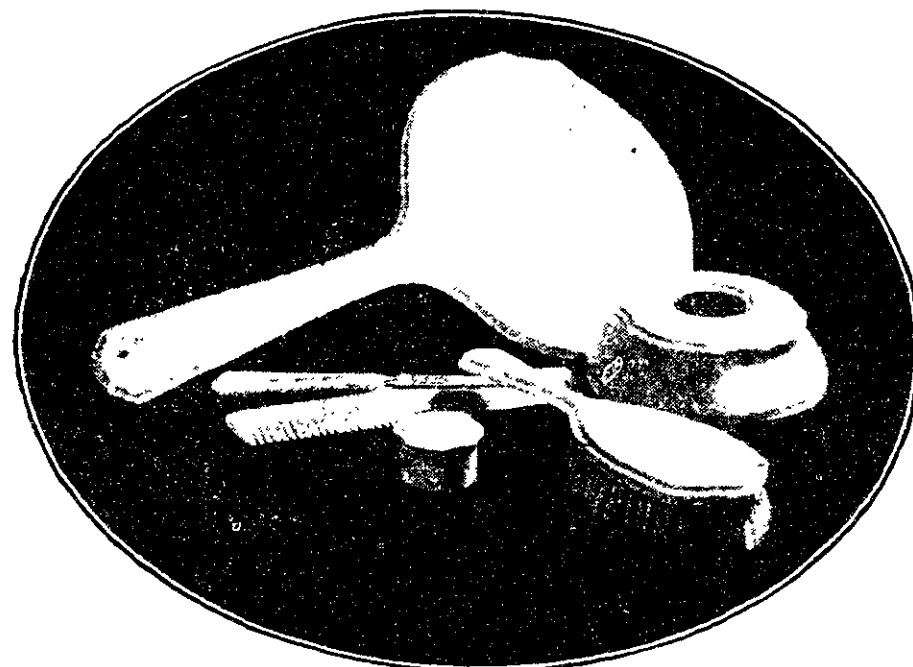
The Research Laboratories of the General Electric Company have spent years in trying to drive more and more molecules of air from containers. The chief purpose has been to study the effects obtained, as, for example, the boiling away of metals in a vacuum.

This investigation of high vacua had unexpected results. It became possible to make better X-ray tubes—better because the X-rays could be controlled; to make the electron tubes now so essential in long-range wireless communication more efficient and trustworthy; and to develop an entirely new type of incandescent lamp, one which is filled with a gas and which gives more light than any of the older lamps.

No one can foretell what will be the outcome of research in pure science. New knowledge, new ideas inevitably are gained. And sooner or later this new knowledge, these new ideas find a practical application. For this reason the primary purpose of the Research Laboratories of the General Electric Company is the broadening of human knowledge.

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