There is also a large collection of electrical and other radiometers illustrating the electrical and heat phenomena studied by Puluj.

The automatic mercury pump used in exhausting such tubes as are made at home is a very convenient form designed by Messrs. Norton and Lawrence, instructors in the Institute, a description of which is soon to be published.

Reference should also be made to new apparatus for illustrating the phenomena of the Hertzian waves, and also the apparatus of Elster & Geitel for studying the effects of light and of the X-rays in causing the discharge of electrified bodies.

To the equipment of the Laboratory of Physical Chemistry has been added apparatus for measuring the dielectric constant of substances by means of electric waves. The method, which is due to Professor Drude, of Leipzig, consists essentially in measuring the length of the electrical waves set up in a system of two parallel wires by a suitable spark exciter, first when the wires are in air, and second when surrounded by the liquid to be investigated. A vacuum (Geissler) tube, placed in the path of the waves, indicates by a sudden glow when a movable bridge placed across the wires reaches a so-called node. The apparatus has proved very satisfactory in the preliminary experiments of an investigation now being carried out in the laboratory.

A new quadrant electrometer of unique construction has also been received from Germany. The essential difference between this and other forms of this instrument consists in maintaining the vanes in the upper and lower quadrants at a constant difference of potential, by means of a dry pile of many hundred films of lead peroxide, the pile itself forming a part of the suspended system. Quartz fibre suspensions are used, whereby a sensitiveness of less than a thousandth of a volt is obtainable. This, combined with the very small capacity of the instrument, renders it of great value for much electrometric work.

For the Laboratory of Heat Measurements there has been purchased a Junker Calorimeter for the determination of the heating value of gas. This is the newest and best device for this work, and makes it possible to determine the efficiency of gas for heating, by means of stoves, or its value as a fuel for gas engines.

**SONG OF THE YARD PUMP.**

Creaking up and down I go,
With my watery cargo
Foaming from the spout like snow,
Singing handle's largo.

In the worn and mossy trough
Sparrows chirp and flutter;
Chubby infants throw them awful hunks of bread and butter.

Let's put signs, "No Bathing here!"
Lest each tiny sparrow
Find himself a watty beer,
Like Willy drowned in Yarrow.

—Harvard Lampoon.

The course in Third-year Electricity has begun.

A picture of the Provisional Track Team for the Amherst Meet was taken last Saturday.

The subject to be considered at the Y. M. C. A. meeting to-morrow is "Fishers of Men," the text being Matthew iv. 18–22.

A petition to the Faculty asking that Room 20 Rogers be set apart as a trophy room, is being circulated among the students by the Athletic Association.

Mr. G. R. Underwood, of the Upton Glue Works, lectured to the Industrial Chemists on Monday, April 25th, on the manufacture of glue and gelatine.