relay are rounding out in fine shape, to take a greater interest in the work. The Mandolin finished by Poole's Orchestra, the best get everything in the best possible night. The Pop Night concert and the Winter Concert on Friday night of this week? If you haven't, you should without doubt. Of the new men that is coming along in fine style. Gueth-team, has been training steadily and the benefits of long distance road work. The candidates for the shot and put is inclined, making the weak spots where a little can be said of whe is is as if one of the best teams is to be producible by the State of Pennsylvania. Professor Spofford persuaded to talk. "Professor McKibbon described the Professor McKibbon told Civil What to Avoid in Dam Construction. Faithful faults and faulty operation. He first explained how the dam, which was to hold water for a paper mill, was located above the town of Austin and Costello. These towns lie in a deep river valley, on the banks of which was used to hold water for a small dam, which one which failed, was built in 1909 of concrete. It had a vertical slope face 50 feet high, while the down stream face was inclined, making base 39 feet through. The foundation was composed of layers of soft shale and a river bluff in very thin height, to hold the dam to the rock from rods were not the base had been made up of steps. The crumbling of the cement was not done continuously, so that there were horizontal joints extending clear through the structure in places. In some course large rocks were used to a considerable extent. Soon after the dam had been completed it was noticed that cracks formed, and when a head of water gathered behind it, it started to move forward several feet. On draining the reservoir to repair it was found that the water had penetrated between the dike and the protecting apron. The right repairs the dam was again put into use. It was only a few days after the reservoir had filled to the spillway that the water escaped to wipe the dam away without the control for the last long distance relay work. WINTER CONCERT FRIDAY Only Big Social Function of Fall Term—Tickets Now on Sale. Have you bought your ticket for the Winter Concert on Friday night of this weekend? It has never been easy to do so at your earliest opportunity, as all the best seats are fast being taken up. Reserved seats are still on sale at the Union, and may be purchased through the office of the Tech Music Club. The Tech Men Should Take Advantage of Exams, in January. In view of the great demand for chemists, the Civil Service Commission of the United States is experienc- ing much difficulty in filling a large number of properly qualified civil service positions. A recently issued announcement of an examination to be held January 17-18, 1912, for filing several vacant positions of assistant chemists, Department of Agriculture, and the number as needed, at salaries ranging from $1200 to $1600 a year, states that the opportunities for appointment from this examination is substantial, since of thirty-eight persons who qualified, the list was reduced to three who were appointed at $1240 per annum and tendered appointment at $1300 per annum. Full information as to education, experience and number of persons eligible may be obtained from the U. S. Civil Service Commission, Washington, D. C., for a copy of the assistant chemist announcement.

NEW IDEA PROVES TO BE A SUCCESS M. E. Society Inaugurates Plan of Student Discussion on Topic. Last evening, in the Union, a meeting of the Mechanical Engineering Society was held. Mr. Noyes called the meeting to order and first gave out some important announcements after the secretary's report. He was followed by Mr. Davis, who talked on the subject of "High Speed Gasoline Engines," and Mr. Thompson, who talked on the subject of "High Speed Gasoline Engines are Built for Speed," while the heavy ones do the greater amount of steady and heavy work. In order to increase the horsepower from the gasoline engines, new parts were developed, and today the number of high speed engines in rapidly growing, due in large amount to advertising, which keeps the different types constantly in the public eye. The Cheap, expensive, simple, economical, and so-called "clean" machines have for many years gone on with corresponding amount of sales. Mr. Davis showed, with the help of diagrams and slides, the different steps in the production of the gasoline engine. He pointed out the cylinder of the engine and out as ex (Continued on Page 3.).

TECH'S LOBSTER FIFTY MILLION YEARS OLD Professor Shimer Brings Valuable Collection From Australia. Professor Harvey W. Shimer of the Geological Department, who has recently returned from a European trip, brought back with him a number of specimens in different parts of Europe. These specimens are probably of the most interest in the country, if not in existence. The trip took him to various places on the Mediterranean, where he found many interesting specimens, and thence northward through Europe, stopping at important geological beds and having his trouble well repaid at each stop. Among the collection which will soon be placed at the disposal of the Technology students are specimens of relatives of the nautilus and oyster. The Jura Mountains. With these additions the collection at the Institute Pro- fessor Shimer described the (Continued on Page 2, Col. 2.)

NO ICE—NO HOCKEY. Weather Holds Up Practice at Most Colleges. The college hockey season was to open last weekend, but the weather scheduled to meet Trinity, but the game was not played because of bad weather. Williams has only about 25 men out for the team. Of these, four are veterans, the other men are from the junior class. The coach has given him a running reception at two meetings at which he will speak—the enginering Thursday and this informal one in the office Wednesday, at 5 o'clock.

CALENDAR. Wednesday, December 13th. 1.30—Wireless Engineering Society. 5.00—F. H. Rindge, T. C. A.—Union. 6.00—F. H. Rindge will Talk to T. C. A. Will Meet Them Today—Is Also Regular Thursday Noon Meeting. Wednesday afternoon an informal meeting is to be held in the T. C. A. office, to which are invited all who are interested in social service to meet Mr. F. H. Rindge, the speaker for Thursday. Mr. Rindge is the secretary of the International Committee of the Y. M. C. A., in charge of the industrial services. He is also an expert in teaching English to foreigners, and will be introduced to all Tech men who are teaching English. His work is much broader than this, and any man who is interested in any kind of social service should meet him. There are many Tech students who find it impossible to engage in any regular work of this kind during their course but who have done so before coming to Tech.