

THE TECH

VOL. XXXI. NO. 67

BOSTON, MASS., THURSDAY, DECEMBER 14, 1911

PRICE TWO CENTS

RINDGE AND LINDGREN TALK BEFORE MINERS

Descriptive History of Mining
From Pueblos to Most Up-
to-Date Appliances.

An important meeting of the Mining Engineering Society was held last evening in the Union. After the opening of the meeting by the President, Mr. F. H. Rindge, the secretary of the International Committee of the Y. M. C. A., in charge of the industrial service, gave a short but very interesting and instructive talk.

Mr. Rindge said that the success of the engineer depends upon his ability to deal with men sympathetically and intelligently. He mentioned one of the engineers of the Westinghouse concern who has said that college graduates who knew only theory and shop practice were confounded nuisances and did not know how to deal with men intelligently. He spoke of the great opportunity for students here in Boston to do a little work in teaching the foreigners the English language.

The principal speaker of the evening was then introduced, Dr. Lindgren of the U. S. Geological Survey. He gave a history of the mining of the different metals in America, beginning with the first by the Pueblo Indians. The Spanish then came, and with the involuntary help of the Indians worked the silver and gold mines on a small scale. The Spanish were driven out by Indians, but in 1690 again began the mining, which has been continued to the present day.

The speaker carried through the development of the mining to date. The real advance took place after the discovery of gold in California by John Marshall in 1848. In 1852 the production of gold in this country amounted to about \$60,000,000.

Hydraulic mining began in 1882, but on account of the great damage done to farms in some places this was
(Continued to Page 2.)

B. A. A. MEET CHANGES.

Handicaps Are Cut Down and
Better Records Required.

The B. A. A. indoor meet will be held in the Mechanics Building February 23. This year's events will be different in several respects from those of previous meets. There will be no 40-yard handicap, but a scratch sprint will be substituted. The 45-yard handicap will also be made into a scratch event.

The three-mile run, formerly open to all contestants, will be limited to those who have a record of 16 seconds or better. This is done in order to eliminate a crowd of slow runners who prevent fast time being made by the good men.

The colleges near Boston often enter a large number of men in each event. This is rather unfair to the other colleges, so the number of men which a college may enter in any one event has been reduced to six. Preparatory schools will be allowed four men in each event, as customary.

Shot-putters must show a record of 40 feet instead of 38, as formerly. Handicaps have been cut down in general. Three inches will be the limit in the high jump, and four feet in the shot-put. The mile, 1000-yard and 600-yard run, have been unchanged.

SERIOUS LOSSES SUSTAINED BY

INSTITUTE PARTIALLY OFFSET BY GAINS.

President Maclaurin Makes Annual Report to Corporation---Millions in Grants and Bequests.

President Maclaurin last night made the President's annual report to the Corporation. The main features that the President makes are those of the great losses and gains throughout the past year. Death and disability have cut deeply into the personnel of the instructing staff, and the many friends of the Institute, and to offset these misfortunes are many noteworthy advances in financial and educational conditions.

Under the various headings given below the President reports on the condition of the Faculty, Corporation, undergraduate life, departmental changes and possibilities of future developments. In order to present these points, which are of deep interest to the thinking undergraduate, excerpts from the report are made as follows:

Losses During the Year.

"Foremost among the losses is that of Mrs. Rogers, whose death in May broke a link with the very beginning of the Institute. Her devotion to it was part of her loyalty to her husband, but it was greatly stimulated by her personal sympathy with struggling youth."

Dr. Maclaurin further spoke of the losses of the Corporation itself, naming Mr. Nathaniel Thayer and Dr. C. G. Weld. Mr. Thayer has for years rendered active service for the Corporation as a member. "Dr. Weld was especially interested in the work of the Department of Naval Architecture, and he showed that interest in the most practical way by keeping in close touch with the activities, suggesting new fields of endeavor, and generously supplying the funds required to carry out plans that seemed to him good." Not only does the department lose his friendship, but also the wherewithal to carry on work outlined and supported to date by him.

Turning to the instructing staff, Dr. Maclaurin points out the loss occasioned by the resignation of Professor Lanza, Chandler and Schwamb and by the death of Mrs. Richards. "Professor Lanza retires on a pension with the title of Professor Emeritus, after forty years of service. Throughout that long period he has shown himself absolutely devoted to the interests of the Institute, to which he has rendered memorable service. Professor Chandler, who has retired on a pension from the Carnegie Foundation, has also earned the title of Professor Emeritus. He leaves the oldest school of architecture in the country at the highest level of its efficiency and reputation." The proposal of the Boston Society of Architects to establish a scholarship fund in his name was a testimonial that appealed greatly to him.

Speaking of Mrs. Richards, President Maclaurin quoted President Walker: "These laboratories of necessity supersede the one so long maintained largely through the zeal of Mrs. Richards, who has for seven

years given instruction several hours of each day without any compensation for her services." It is gratifying to know that her friends are endeavoring to establish a permanent memorial of her work at the Institute.

Gains.

"The great personal losses have been offset by very conspicuous gains. I should account as by far the greatest gain the change that has come over the spirit of the friends of Technology. The feeling of uncertainty on the part of many, and even of despondency on the part of a few has completely passed away." The various grants throughout the year, enumerated under their proper headings, total nearly two and three-quarter millions of dollars, which will be available in the near future.

Grant from the Commonwealth.

The President here reviews the difficulties that beset the path of the committee in charge of this work, and heartily acknowledges the work of the Alumni Committee that aided. "Its most gratifying feature was the wealth of evidence that it revealed of widespread appreciation of the services the Institute has tendered the Commonwealth, and of the determination of the people to maintain its educational standards at the highest."

Bequests.

Shortly after the State award the will of Mrs. Rogers showed that she had left nearly the whole of her property to the Institute. "Her example of whole-hearted devotion to the advancement of Technology cannot fail to have a stimulating effect on all who wish to see the fruition of Rogers' ideas."

About the same time Mr. F. B. Greene left a valuable estate to assist poor and meritorious students. This bequest, led Dr. Maclaurin to point out the increasing burden occasioned by additional scholarships, since the loss per student per year is now \$239, an increase from \$163 of ten years ago. He recommends that this additional burden might be shared by stipulating ultimate return of scholarship money after a reasonable lapse of time.

T. C. duPont's Gift and the Site.

These two topics are so closely connected that they are considered together. Mr. duPont gave one-half million dollars, if one and one-half millions be raised in five years. This came at an opportune time, as it showed the Legislature that the Institute really intended to move. It is believed that the final action of the Cambridge government will be favorable.

Summer Camp.

The President here spoke of its necessity and the donations that made this camp a possibility. Work is now in progress. The advantages, not only educational, but also social, are great.
(Continued on Page 3.)

WIRELESS SOCIETY GETS TRANSFORMER

Improvements Made in Station—
Amateur Plants to Be
Chartered.

At 1.30 yesterday the Wireless Society held a meeting in its room in the corner of the Electrical laboratory. The principal object of the meeting was to announce that Dr. Pender had secured for the society a transformer, manufactured by the Ritchie Company. The cost, somewhere in the neighborhood of fifteen dollars, will be borne by a benevolent and modest individual who prefers to remain anonymous. The transformer, which has a capacity of from one to two kilowatts, has for a long while been the hope and ambition of the society, and consequently Anonymous dodges a lot of gratitude from the members.

The society is planning to make a chart of all wireless stations in this vicinity. This chart will record all amateur stations having any considerable power, and will cover the territory within a hundred-mile radius of Boston.

Sometime soon there will be a little more wiring done in the society's room in the laboratory, and necessary repairs made. The next gathering, which will probably take place during the first week of January, may be held in this room. If not, it will be in the Union. It is probable that hereafter the regular meetings will be held on Fridays instead of Wednesdays, to suit the convenience of some of the members.

SOPHS PLAY HAVERHILL.

Final Practice Held for Game
Friday Night.

Yesterday the Sophomore basketball team held its last practice before the game with Haverhill High. Darling, a member of last year's Varsity team, was on the floor helping the five in their work. Haverhill is said to have a mighty fast aggregation, and the game is sure to be very fast.

In the Sophs' last game they showed their ability to hold their own against most any of the High School teams in the vicinity, as Bridgewater has one of the strongest fives in the city. The following men will probably make the trip Friday night: Captain Comber, Ruoff, Price, Tirrell, Williams, Henderson and Fox.

How do the Freshmen like that battalion drill? And notice the upperclassmen that do not come alone to see it?

CALENDAR.

Thursday, December 14.

1.30—T. C. A., F. H. Rindge—Union.
4.15—Glee Club Rehearsal—Union.
5.00—Mandolin Club Rehearsal—Copley Hall.

8.00—Lowell Lecture on Architectural Acoustics—Huntington Hall.

Friday, December 15th.

6.00—Hockey Practice—Arena.
8.00—Winter Concert—Copley Hall.
8.00—1914 B. B. vs. Haverhill High—Haverhill.

Saturday, December 16th.

12.00—Freshman Basketball Practice—Gym.
8.00—Cosmopolitan Club—Union.

THE TECH

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THURSDAY, DEC. 14, 1911

IN CHARGE OF FRIDAY ISSUE.

EDITOR—Cary, C. A., 1912.
 Associates—Graham, L. H., 1914; Munn, P. J., 1915; Rogers, H., 1915; Somerby, F. S., 1914.

Opinions seem to be waxing warm on the subject of the establishment of a chapter of Sigma Xi at the Institute. THE TECH has received so many communications that it will be a physical impossibility to publish them all, but we will publish the best and are still ready to receive more. This is the chance for everybody to arouse their latent talent and show off their hidden literary ability. The voting seems to be still at a low ebb, but there are yet three days in which to express your choice, and we expect to have to count 1500 or more ballots Saturday afternoon.

It has been said that only those who have comparatively low records are opposing the movement, but we will bear witness and can prove that such is not the fact. Many of the leading men in the Institute having considered all the phases of the situation have decided that in their opinion such an organization would be impracticable. Most of the communications that we have received oppose the matter and we would suggest that it might be a good plan for some of the advocates of the plan to voice their sentiments on the subject in order that all sides of the question may be heard. We will save space each day for the publication of material on this subject.

We have received a suggestion from Mayo D. Hersey, 1910, of the Bureau of Standards, Washington, D. C., that the Alumni be allowed a chance to express their opinion on the Sigma Xi question. He pointed out that it was too important a question for any one class to decide. For this reason we invite any and all Alumni to send in their ballots, and they will be counted with the rest provided the postmark is previous to 1 P. M., Saturday, December 16. We might add for the benefit of the undergraduates that no votes will be received unless on the printed ballot which appears on the second page of THE TECH daily.

What do you think of those prehistoric bivalves? Wonder if they served them on the half-shell.

All ballots in by Saturday.

T. C. A. SECURES POPULAR SPEAKER.

Mr. Rindge Will Address Men on "The Human Element in Industry."

The Tech Christian Association considers itself fortunate in being able to secure as its speaker today Mr. Frederick H. Rindge, Jr., one of the secretaries for industrial service on the International Committee of the Y. M. C. A., who will speak on the "Human Element in Industry." Mr. Rindge has a very pleasing personality, and is such an interesting speaker that his talks have been exceedingly popular in the many colleges which he has recently been visiting in Massachusetts and Rhode Island. In fact in most of them he has been compelled to return several times, particularly at Amherst, where he gave sixteen talks.

It will not be possible to have him here more than once, so the T. C. A. is counting on the student body to turn out in larger numbers than at any time previous and give Mr. Rindge a rousing reception. Come to the Union early this noon and bring with you some fellow who has not yet found out how interesting these Thursday meetings really are. Help by your presence to make this meeting the best one of the series.

MINING MEETING.

(Continued from Page 1, Col. 1.) abolished about twelve years afterward.

In 1858 prospectors pushed into the northeastern part of Oregon, in the neighborhood of the Blue Mountains, discovering rich mines. Others pushed into Montana. In 1859 gold was discovered in Colorado, while a year later some prospectors near Leadville obtained coarse grains of gold. The work of getting the gold out was hindered by the presence of a white rock, later found to be lead carbonate. Some mines in Utah began producing when the railroad reached them.

The late discovery of silver in Canada has greatly increased the world's output of the metal. The discovery of the cyanide process in 1892 indicates an extraordinary advance in mining, and the dumps and tailings, once thought to be valueless, were then made profitable.

With the extension of the railroads the mining of lead, copper and the less precious metals began to be profitable. The mining of metals in this country at the present time is enormous, and the output of gold at the present time amounts to about \$100,000,000.

Dr. Lindgren said that 30 years ago graduates of mining schools were of little value, but today are found in every camp throughout the West.

To the Editor of THE TECH:
 Having read your editorial of yesterday, and also a recent communication, both arguing against the formation of an honorary scholastic organization at the Institute, I venture to say a few words in favor of the idea.

At present there is absolutely no recognition here of high grade scholastic ability unless it be the possible chance of getting a good job at the conclusion of the four year's course. If a man takes even a minor and inconspicuous part in any of the student activities here he is given recognition and honor for his work. As it must be admitted by every one that our education in the studies of the several professions followed up in the courses here is our primary aim, it seems only a matter of fair play that the man who excels in the line of scholastic work should receive some honor for his abilities.

It is to be feared that some of the opponents who have appeared against the movement have been biased by personal feelings rather than broad principles. There are a number of men
 (Continued to Page 4.)

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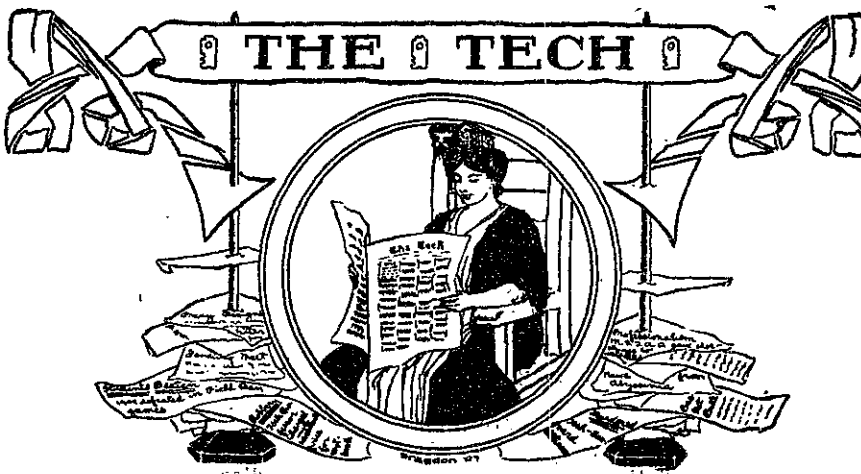
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Mark X

Are you in favor of the establishment of an honorary scholastic fraternity at the Institute?	YES	
	NO	

Name..... Class.....

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T. C. A. TALK YESTERDAY.

Mr. Rindge Tells of Growth in Interest Elsewhere.

Yesterday afternoon Mr. Rindge, who is to address the noon meeting today in the Union, told the Cabinet members of the Association about the success that has followed agitation for Industrial Service and teaching of English by college fellows elsewhere. The movement originated in Sheff at Yale, five years ago, and has had an astonishing growth until there are now forty-five men engaged at least once a week there conducting some class of foreigners who would have no other opportunity to learn the language spoken by their employers. In the Carnegie Tech, Pittsburgh, the student leaders have taken up the work with astonishing interest, as among those teaching are the presidents of all the professional societies and the chairman of the Student Senate. Very evidently there is something in the work that has attracted the best men of other schools, and it will be Mr. Rindge's object to make Tech men see the attraction today in the Union at half-past one.

As a final word he said that, without exception, the biggest engineers of the country say that their success has been due to ability to deal with men. By coming in close contact with the type while in college a man will have a great advantage.

PRESIDENT'S REPORT.

(Continued from Page 1, Col. 3.)
Congress of Technology.

Here President Maclaurin outlines the Congress held last year on the fiftieth anniversary of the granting of the Charter. He reports on the success of the Congress, and speaks of the recent publication of the papers in "Technology and Industrial Efficiency."

Internal Affairs.

Under this head are treated the changes in courses brought about by resignations already mentioned. In regard to the registration it is to be observed that it is still on the increase, there being fifty-seven more students than last year. Every fourth man is a college student, and more than two hundred are college graduates. The students' health improves with their stay here, the percentages of illness in the first, second, third, fourth and fifth years being 31, 13, 12, 6 and 0.

Outlook for the Future.

"The educational problem before us is relatively simple, as the lines of progress are clearly defined by past successes." Various departmental researches are being carried on for practical purposes. "It is important to note that our own country is awakening to its needs and our manufacturers are clamoring for competent research workers, while the supply is too meagre for the demand." This augurs well for the Institute's plan in this direction.

Not only educational problems confront us, however. The rebuilding of the Institute is a vast undertaking, and if put in Cambridge it is desired that buildings that are classic in their simplicity and in their freedom from unnecessary ornament be erected.

The report closes with President Rogers' words: "My experience assures me that this enterprise must command the liberal sympathy of those who aim to make their generosity fruitful in enduring public good."

Some labor to that Pol. Econ. lecture. What sleepy laborers!

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COMMUNICATION
(Continued from Page 2.)

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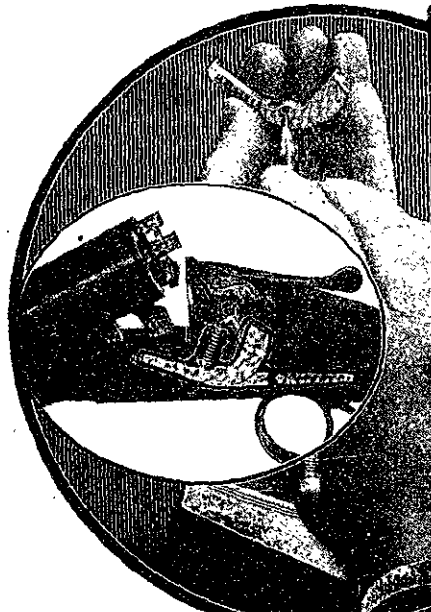
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