

THE TECH

VOL. XXXIII. NO. 79.

BOSTON, MASS., TUESDAY, NOVEMBER 18, 1913.

PRICE TWO CENTS

CONSULTING ENGINEER SPEAKS TO MINERS

Mr. Allen H. Rogers Tells About Methods Of Financing Mines.

At the Smoker of the Mining Engineering Society, which was held last night in the Union, Mr. Allen H. Rogers, a prominent consulting engineer in New York and Boston, gave a very interesting talk on "Methods of Financing," particularly in connection with mining. Many of the members of the Society and guests were present to hear Mr. Rogers and to enjoy the refreshments that were served afterwards.

One of the ways in which a struggling mine is given a start is known as the "Lease and Bond Method." The lessee of the mine, instead of merely paying cash, buys a certain number of shares in the mine every time the lease is renewed. This method helps to raise capital to run the mine and at the same time the lessee takes an active interest in the project. When the time of his lease is out he will not leave the mine in bad condition as is often the case when he has no longer any interest in it.

At the present time leases in Colorado are made by contract. If the lessee does not run the mine to suit the owners they may take the management of the mine at any time.

Another method of financing mines is by issuing what are known as convertible bonds. The bonds are bought with the understanding that when the shares of the mine reach a certain price the bonds may be converted into their equivalent in shares if the possessor so desires. Thus, if he wants to take the chance he may draw his income in dividends, or he may continue to draw the interest on his bonds. This latter he will do, of

(Continued on page 2.)

NAVAL ARCH. SOC. MEETING

Mr. William H. Lincoln To Speak On Marine Insurance.

This afternoon the Naval Architecture Society will hold a meeting in Room 32, Engineering C, at which Mr. William H. Lincoln, a member of the Corporation will give a lecture on Marine Insurance. Mr. Lincoln is a member of the visiting committee of Department of Naval Architecture and Marine Engineering, was for some time agent for the Leyland Line, and was formerly President of the Boston Chamber of Commerce. The lecture promises to be a very interesting one and everyone is invited to be present.

CORRECTION

Inadvertently the name of K. M. Sully was omitted from the list of nominees for President of the Sophomore Class which was printed in yesterday's issue of THE TECH. The list for President should read:

C. W. Loomis
H. W. Mann
A. F. Miller
K. M. Sully.

LATIN-AMERICANS ORGANIZE CLUB

Temporary Governing Board Elected—News of Worcester Conference.

The second meeting of the Latin-American students of the Institute was held last evening at the home of Mr. M. Sturgis, ex-President of the Spanish Club of Boston. Mr. Sturgis has taken a keen interest in the formation of a Latin-American Club, and the men are highly appreciative of his kindness. Pursuant to the resolution adopted at the previous meeting, it was decided that a club should be formed, and a committee was appointed to keep the project alive until a more permanent organization could be evolved.

The Club will be officially known as the "Club Latino-Americano de M. I. 1." Its object will be the keeping in friendly touch with each other all the Latin-Americans of Technology, and fostering mutually beneficial relations between them as individuals and as representatives of their several nationalities. The committee which was appointed consisted of five men: R. Alfaro '16, chairman; A. G. Longoria '15, treasurer; J. I. Moreno '14, secretary; A. Gutierrez '15; and J. R. Masferrer '14. This committee will take full charge of the affairs of the Club for the time being, as well as draw up a provisional constitution. At the next meeting, whose time and place will be announced later in THE TECH, permanent officers will be elected and the activities of the new organization more precisely outlined.

Besides listening to their host, the men present were addressed by Mr. Rivera, President of the Latin-American Club of Harvard. After the busi-

(Continued on page 4.)

COSMOPOLITAN CLUB

The Cosmopolitan Club will hold a business meeting in 8 Eng. C at 5.00 P. M. tomorrow. The report of the Dance Committee will be heard, and the report of the Chinese National chairman will be read and discussed. It is unusually important that every member be present, since plans for the first National Night of the year will be discussed. This will be the Chinese Night, and will be held on November 29.

SOPHOMORE TUG-OF-WAR

Last Sweater Measurement At Gymnasium Today.

Manager K. M. Sully of the Sophomore Tug-of-war team has announced that this afternoon is positively the last opportunity for being measured for sweaters. William Read's man will be in the Union this afternoon at 4 o'clock and it is the last time that orders will be taken. All men who have not yet been measured must be there.

WEATHER

For Boston and vicinity: Fair and warmer; brisk west to southerly winds.

CIVILS TO VISIT THE COMMONWEALTH PIERS

Excellent Opportunity To See Pier Construction—Will Leave At 2.30.

This afternoon the Civil Engineering Society will make the trip to the Commonwealth Pier which has been postponed from last Friday. The party will meet on the steps of Engineering A and leave at 2.30. For the benefit of any who, because of classes, can not meet at Engineering A, the officers wish to state that the pier may be reached by taking a car marked "Summer Street Extension" at the corner of Church and Boylston Streets, near the Hotel Thorndike.

Piers 5 and 6 are known as the Commonwealth Piers, and it is these two, which are now being constructed, that the party will visit. Pier 5 was pushed along until last spring it was sufficiently completed to be used by the Hamburg-American Line for landing passengers and freight; and it has been in use ever since. The pier is 1200 feet long and 400 feet wide, and has a 50 foot concrete platform all around the outside. This leaves a ground area 1150 feet by 300 feet for the passenger and freight sheds.

Along the right hand side of the pier, as it approached from the shore, is a freight shed which is now in use by the Hamburg-American Line. Separated from this shed by two railroad tracks and a light well overhead and situated in about the center of the pier is a larger passenger shed, which is very nearly completed. On the left hand side of the pier there will be another freight shed, which, like the other, will be separated from the passenger shed by two tracks and a light well. Of this last shed only the steel frame-work has been erected as yet. The curtain wall of this pier has been built around the retaining wall of an older one.

Pier 6, like Pier 5, is also nearing completion. On this buildings of brick and concrete are being erected, which have been leased by the Boston Fish Market Corporation for a period of fifteen years. The architectural side of the structures has been considered and the result is a very attractive set of buildings. In the opinions of the officers those members who go will have a rare opportunity to see piling, concrete slab construction and steel structure in nearly all of its stages.

There will be another trip to the Pier on next Friday.

EPISCOPALIANS MEET

At 7.45 tomorrow evening the Brotherhood of St. Andrew will hold its regular meeting. The meeting will take place at the Trinity House, 39 St. James Avenue, and since very important matters are to be considered at the business meeting, a full attendance of the members is especially requested. Owing to the fact that the business is of so great importance, the Brotherhood feels obliged, for one evening, to suspend its rule that every Tech man is welcome to its meetings, and announce that this will be a gathering for members only.

ELECTRICAL ENG. SOC. SHINGLES HAVE ARRIVED

Pins Are Also Here And May Be Obtained From J. A. Judge '14.

Both the pins and the shingles of the Electrical Engineering Society have arrived and are now ready for distribution. The pins may be obtained from J. A. Judge '14 upon payment of the remaining amount due on them. Judge will be in the Electrical Engineering Library today from 1.30 to 2.00, and as many noons this week as possible. It is requested that these pins be obtained at once.

The shingles have been divided into two lots, those which have been paid for and those on which there is still something due. The first may be obtained from Miss Payson in 15 Lowell. The others have been placed at the Cage and may be had upon the payment of the requisite amount.

SENIOR DINNER

Speakers Announced—Tickets Fast Disappearing.

The Senior Dinner Committee wishes again to call attention to the change in the date on which the dinner will be held. Tuesday, November 15, is the day now appointed, the Union is the place, and 6.30 the hour, and, as tickets are going fast, the Committee is assured of a good attendance. The speakers of the evening will be Dean Burton, Professor Dewey, head of the Department of Economics, and Professor Sedgwick, head of the Department of Biology and Public Health. These men are all well known to the student body as a whole, and of course are especially well known to the men who have spent the last three years in Institute work. The Committee is desirous of announcing that all arrangements are now practically complete, so that there is now not much to be done other than wait for the few tardy ones to purchase their tickets.

Tickets are on sale at the Cage, and they may also be obtained from the following members of the Class:

D. G. Crowell, E. E. Dawson, A. C. Dorrance, T. G. Duffield, C. P. Fiske, T. E. Morrill, A. F. Peaslee, G. H. Taylor, R. D. Salisbury, H. L. Stone, D. L. Sutherland, A. H. Waitt, J. M. White.

CALENDAR

Tuesday, November 18, 1913.

2.15—C. E. Trip—Leave Eng. A.
4.00—Lecture on Marine Insurance
32 Eng. C.
4.00—Finals 1917 Cross-Country—Gym.
5.00—1916 Ballots Out—Cage.
7.15—Brotherhood St. Andrew—93 St. James Ave.

Wednesday, November 19, 1913.

Delivery of Altered Uniforms—Armory.
5.00—Cosmopolitan Club Meeting—8 Eng. C.

Thursday, November 20, 1913.

4.10—Economics Club—8 Eng. C.
5.00—Show Orchestra Rehearsal—Union.
5.00—Lowell Lecture, "William Wadsworth"—Huntington Hall.

THE TECH

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TUESDAY, NOVEMBER 18, 1913.

In Charge of This Issue:

Editor—G. W. Wyman '16.
Assistant—P. W. MacNeill '15.

Undergraduates can do one thing of considerable importance for the New Technology; they can hand in their ideas concerning various features, and the like. The men who are working on these things have been out of undergraduate life for more or less time, and may have forgotten essential points of what is needed. Aside from that, "Two heads are al- better than one." There cannot be too many opinions expressed. The architects, in particular, should have good ideas.

To make it easy for these expressions of the students' point of view to reach their mark, THE TECH will be glad to receive them as communications and will print them when suitable. In any case, we will see that either the original letter, or a copy of THE TECH containing it, is received right where it will do the most good

We have been unpleasantly im- pressed by the use of the word "com- mons" in reference to the dining- room at the New Technology. While it is the word used at most of the col- leges, it has a distinctly low-down sound, as if the student dining-room were to be held in disrespect as some- thing public, instead of being sacred to undergraduate life. "Union" seems much preferable; or perhaps a still more appropriate name could be found. We think some better- sounding word should be used from the very start, as a habit once formed in that line is very hard to break.

The Chinese Night of the Cosmo- politan Club bids fair to be an inter- esting one.

SCIENTIFIC AND ENGINEERING NOTES

An ingenious device for eliminat- ing the danger of explosions due to back-firing of gasoline engines has been patented by J. H. Thomas. While the appliance does not pretend to prevent back-fire, it does lessen the possibility of the fire reaching the gasoline tank. The carburetter is provided with a two way cock which is normally held down by a fusible plug designed to melt at 140 degrees Fahr. or any other desired tempera- ture. At the occurrence of back-fire the plug melts and a small steel spring causes the cock to shut off the fuel line to the supply tank. A vent is also opened simultaneously which drains out the fuel remaining in the carburetter to any point out- side the danger zone.

MINING SMOKER

(Continued from page 1.)

course, if the bonds never reach the stipulated price.

Mr. Rogers also took up the com- parative ease with which mining brokers are usually able to "take in" the unsuspecting public. Often these brokers are out and out imposters. In any event, they usually know a lit- tle about mining and less about the particular mine which they represent. They exaggerate greatly the profits which the mine is likely to pay and underestimate cost of running the mine. No purchaser should think of buying mining stock without having the mine first examined by some competent mining engineer. People sometimes are afraid that they would seem to be doubting the broker's word by doing this, but this course is the safe one.

A story was told of a company of Englishmen who were on the point of purchasing a large amount of mining stock on the word of a broker. On being warned by a friend that they ought to have the mine examined by an engineer, one of them exclaimed, "Yes, but wouldn't the broker feel offended?"

In mining brokerage, the system of underwriting is often made use of. The broker guarantees that under- writing is often made use of. The broker guarantees that the whole is- sue of bonds shall be sold. He is given a commission on the whole. This is an efficient way of raising capital in a fairly short time.

In calculating the profits of a mine one very serious fact is occasionally overlooked. The profit is not the price received for the ore minus the cost of operation. To the cost of op- eration must always be added the capital cost and the cost of equip- ment. The neglecting of these last two factors has caused the failure of many a mine.

After the talk was over the meet- ing was adjourned and everyone pro- ceeded to enjoy the refreshments of ginger ale and doughnuts which had been provided for the occasion.

The engineer in charge of construc- tion stands in a peculiar relation to both his employers and the contrac- tors; and the true relation is not gen- erally recognized. It is that of arbi- trator, and not that of oppressor. No one who employs an engineer has a right to think that he purchases that engineer's conscience when he pays him his salary. It is as much an en- gineer's business to look out care- fully for the rights of the contractor as it is to see that his employers re- ceive the full value of what they pay for, and that all work is properly done. Believe me, no engineer ever yet made a success professionally by oppressing contractors.—Waddell.

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CHINESE TO ENTERTAIN AT COSMOPOLITAN MEETING

Novel Feature To Be Presented—
Twenty Men Preparing—
Ladies Invited.

The first of a series of "National Nights" to be given by the Cosmopolitan Club this year will take place in the Union on Saturday, November 29. In past years the Chinese Night has always been considered among the most interesting and amusing, and, in the words of Dean Burton, "the best of all." This year, with the increased number of Chinese students at the Institute and in the Club, the production can be made much more varied than before, and the producers are promising the best entertainment that has yet been given—better even, they venture to say, than that of last year. A score of these Chinese members have been making preparations for the occasion since the opening of the term, and we are informed that the program will include a demonstration of every phase of the development of Chinese life and customs, tracing this development from the historic days of 3,000 B. C. to the New Chinese Republic of the twentieth century.

It is promised, moreover, that there will be no dearth of the other typically Oriental features which the Chinese are wont to present.

The committee in charge feels that the efforts made in preparation should be rewarded by a full attendance of Technology men, since such occasions do not occur in every college, but only in such cosmopolitan institutions as is Technology. The Chinese students are endeavoring, they say, to offer American and European men an opportunity to obtain, from first hand and reliable sources, information which could scarcely be gained in any other way. As a study of Chinese life, they feel that their entertainment will be as much as could be gotten from a three-months' tour of the country, since they are in a position to understand exceptionally well just what features of the land from which they come are of interest and value to one who would go there as a stranger, unfamiliar with the language, and able to judge only superficially of the customs of the people. They express the hope that upper classmen, as well as Freshmen and Sophomores, will take advantage of the opportunity which they are working to present. The Chinese now constitute no less than 3 per cent of the total student enrollment of the Institute, and they are offering the best they have.

Chinese Night will be a Ladies' Night, and refreshments typical of the occasion will be served. All Tech men are asked to be present as guests of the Cosmopolitan Club, and every man is asked to bring "her" with him.

ELECTRICAL INSTRUMENTS

The Bureau of Foreign and Domestic Commerce is about to issue a monograph dealing with the manufacture of electrical instruments and meters in Europe. The report is by H. B. Brooks, Commercial Agent of the Department of Commerce and Labor, who recently inspected 31 of the most important electrical works of England, France, Germany, and Italy. The products of each concern are treated in detail and descriptions are given of the buildings, equipment, labor conditions, kinds of material used, and the markets in which the products are sold.

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The Massachusetts Peace Society offers to the undergraduate students of all Massachusetts Colleges for the academic year of 1913-1914 a First Prize of \$100.00, a Second Prize of \$75.00, and a Third Prize of \$50, for the best essays on topics relating to "The Substitution of Law for War" in the settlement of International Disputes. An Honorable Mention will be given all essays reaching a certain standard of excellence. The Judges will be Prof. George H. Blakeslee of Clark University, Prof. Albert Bushnell Hart of Harvard University and Miss Mary E. Woolley, President of Mount Holyoke College.

Among the topics suggested for essays are "The Work of the Permanent Court of Arbitration," "The Proposed Court of Arbitral Justice," or "The Better Organization of International Justice," "Arbitration Treaties," "Mediation," "International Commissions of Inquiry," "The Hague Conferences," "A Congress of Nations," and any subjects relative to the Substitution of Law for War. Any Topics suggested by Norman Angell's "The Great Illusion" will be considered by the Judges.

The conditions of the contest are as follows: Each contestant is requested to append to his essay a list of the works consulted, and, if possible, a specific list of references. The term "Undergraduate Student" applies to one who, in a college or scientific school, is doing the work prescribed for the degree of bachelor, or its technical equivalent. The essays should be presented in typewriting on one side of plain paper of the ordinary letter size., 8 x 10 1-2 inches, and must not exceed 4,000 words in length. Each essay should bear a nom de plume, or arbitrary sign, which should be included in an accompanying letter giving the writer's real name, college, class and home address. Both the letter and essay should reach Dr. James L. Tryon, Secretary of the Massachusetts Peace Society, 31 Beacon Street, Boston, Mass., not later than March 15, 1914. Essays should be mailed flat, not rolled. No essay will be considered that has been or is to be used in any other prize contest. The award of prizes will be made about the first of June, 1914. For any further information address the Secretary of The Massachusetts Peace Society.

But, after all, there are many important things in life for you other than professional advancement and success; although you may judge from my discourse that I have forgotten this, or that I do not even recognize it. Believe me, I would by no means counsel you to neglect the many social and other pleasures that are within your reach. It is bad policy to reduce one's self to a mere working machine; and if you do, you will be sure to find that the machine is likely to break down or to run badly for want of a little lubrication. Every hard working man is entitled to an occasional holiday; and to do him the most good he ought to spend it in the manner which will afford him the most enjoyment. In the end, no time is lost; because the reviving effect of the vacation will enable him to work all the harder when he settles down to business again.—Waddell.

Last chance today for 1916 Tug-of-War men to order their sweaters.

LATIN-AMERICAN CLUB

(Continued from page 1.)

ness and the speeches, refreshments were served and the men entertained with selections of Spanish music.

Tomorrow morning the Technology representatives to the Latin-American Conference to be held at Clark University this week will leave Boston for Worcester. The men and the countries they will represent are: A. Longoria '14, Cuba; J. R. Masferrer '14, Porto Rico; A. Gutierrez '15, Chile; R. Alfaro '16, Salvador; J. I. Moreno '14, Ecuador; J. Garcia '16, Cuba; V. F. Checa '17, and V. A. Checa '17, both for Peru.

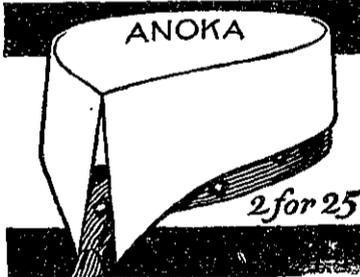
Several of the men will attend on all days of the conference, beginning tomorrow morning at ten o'clock, and ending next Friday evening, while several will only stay at Worcester for some of the more special meetings. While at the conference the Technology representatives will be the guests of Clark University.

The conference is for the purpose of bettering the relations between all the South American and North American countries and enumerating all the benefits the countries in South America can offer the professional men of the other countries.

A very prominent part will be taken by the men representing Technology. Mr. A. Gutierrez will address the conference on the "Position Chile held before the Pan-American Congress" J. R. Masferrer will talk of the condition of the Porto Rican students in the United States, and also of the advantages of the educational centers of Porto Rico, considering these both from the standpoint of the English-speaking and the Spanish-speaking people.

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