

THE TECH

VOL. XXXIII. NO. 83.

BOSTON, MASS., SATURDAY, NOVEMBER 22, 1913.

PRICE TWO CENTS

TECH LATIN-AMERICANS ADDRESS CONFERENCE

Masferrer '14 and Gutierrez '15 Talk At Worcester—Trip Enjoyed.

Tech students, representatives of the Latin-American Club, have taken a prominent part in the activities of the Latin-American Conference which is in session at Worcester this week. Two of them, Artemio Gutierrez '15 and Joaquin Masferrer '14, were honored by being asked to give addresses before the students' session, and both, in response to the invitation, spoke on topics relating to their respective countries.

Gutierrez, who is the son of the founder of the Democratic Party of Chili spoke on the attitude of the Chilean government towards educational institutions. It was not until the year 1852, he said, that the question of primary instruction was considered seriously by the government; but since that time, as a result of judicious expenditures and the adoption of a high standard of scholarship, the percentage of illiterates among the lower classes has been remarkably lessened. Three thousand schools have been established for elementary instruction, many of these being supported in out-of-the-way places where the general advantages of education might reasonably be expected to be absent.

The qualifications for a bachelor's degree at a higher institution of learning, the speaker pointed out, are much more severe in Chili than in this country. At Harvard, for instance, a man who has passed seventeen courses in four years is qualified for the degree; in Chili, it is necessary for a man to pass twelve courses a year for six years, and even then his degree is not granted until he has passed a special examination at the University of Chili; and in view of the fact that only about one-third of the candidates for the degree are successful in the passing of this, many of the young men are discouraged from the taking of it. The great Catholic University, which is run after the manner of American

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SENIOR DINNER

Plans Now Officially Announced—Tuesday Is Date Set.

Plans for the Senior Dinner are now complete, and it is now officially announced that the dinner will be held Tuesday evening, November 25th, at 6.30 P. M., in the Union. Judging from the ticket sale, this dinner will be the most successful gathering in the history of the Class of 1914. All those men who have not yet secured tickets should do so at once as the sale closes Monday and provision is made for only those who have bought tickets. These tickets may be obtained at the Cage or from the following men: D. G. Crowell, E. E. Dawson, A. C. Dorrance, T. G. Duffield, C. P. Fiske, P. E. Morrill, A. F. Peaslee, G. H. Taylor, H. L. Stone, D. L. Southerland, A. H. Waitt, and J. M. White.

NEW TECHNOLOGY WORK PROGRESSING

Seven Departments Established—Two Concrete Towers Erected.

Those who have had occasion to pass the site of the New Technology at the Cambridge end of the Harvard Bridge, cannot have failed to notice the signs of activity. The high towers of wood and the numerous buildings of unpretentious appearance that have sprung up in the different places about the lot, are all evidences of the work that is beginning, and although the men do not seem to be numerous, today there are more than two hundred laborers engaged in the work, and this is but a small fraction of the force that will presently be employed.

The tremendous size of the construction makes it necessary to subdivide the work, and the Stone and Webster Corporation, which has full charge of the building operations, will divide its activities just as if different firms were at work. There will be seven such departments of constructions, independent of one another but controlled by the central authorities. Each will have its own headquarters, laborers, timekeepers and engineers, but what is being done will be harmoniously and economically controlled by the central office. This division of work accounts for the number of headquarters, tool-houses, and the like.

The general office on Massachusetts Avenue will be the office of Merris Lot and Carr, the construction chiefs. The latter is fresh from the building of the great Keokuk Dam power house, where he was in

(Continued on page 3.)

FRESHMAN CROSS-COUNTRY

M. I. T. Finishes Fifth To Fast Colby Team At Andover.

Yesterday the Annual Freshman Cross-Country race was held at Andover. Colby won by a good margin. In explaining this, it should be said that three members of this team ran in the new New England last Saturday. That a varsity team have three Freshmen is exceptional. M. I. T. finished fifth with a score of 115. Donnelly, the captain, was the first to finish for our team, scoring eighteenth. Parker ran well and finished twenty-third, with Brock three places behind him. Litchfield, who has been suffering from a strained ligament, came next, scoring twenty-ninth. Harrington, the last man to score for Tech, finished just ahead of Haviland, who was bothered with cramps throughout the race.

The course consisted practically exclusively of road work. The footing was good and the weather being dry, the runners were not hampered by mud or soggy ground. The time, 20 minutes 58 seconds, is pretty fast for the distance of 3.3-4 miles, which had to be covered.

The team scores were: Colby 24; Penn. 54, Dartmouth 85, Harvard 89, M. I. T. 115, Worcester 129, Andover 144.

The M. I. T. score was as follows: 18, 23, 26, 29, 34; total 115.

CANDIDATES FOR THE TECH MEET

Work Of Various Departments Outlined—Plans For The Year.

Candidates for positions on THE TECH met yesterday noon in the lower TECH office to receive instructions and remarks from the heads of the various departments of the paper. The acting Managing Editor gave a general idea of the work to be done. He spoke of his two departments—business and news. The men on the news department are assigned stories about different affairs around the Institute. They have to interview the chief men in the activities and members of the Faculty. Waitt said that if there were enough men on the paper no man would have more than three or four stories a week, and since the work averages an hour for each story, every man would have plenty of time for Institute work. Each man on the news department has also to work at the office one evening each week, helping the night editor make up the next day's paper.

C. W. Lacy '15, Assistant Advertising Manager, spoke of the work of securing advertisements for the paper. This work, he said, brings a man into touch with business men of Boston, and enables him to learn to talk with strangers without a feeling of bashfulness. It also gives business experience which is valuable in later life.

Mr. Waitt then described a new system of giving pins which is to be inaugurated this year. When a man is elected to the News or Business Staff, which should be in his Freshman year, he will be given a silver pin. When he becomes a member of the News or Business Board, in the Sophomore year, he receives a gold pin. Members of the Managing Board, who are Juniors and Seniors, are presented with gold watch fobs.

The work of men on the Editorial department was described by E. A. Weaver, Editor-in-chief. In this work there are no regular assignments, but each man is required to submit

(Continued on page 4.)

JOINT CONCERT

Program Arranged—The Interesting Features.

With the Wesleyan-Technology concert only a week away, the members of the Musical Clubs are working hard in preparation for the event. Several interesting features will be introduced, including a combination number between all the three clubs as well as the appearance of the Glee Club Quartet for the first time this season. This will be the only concert this year that the majority of the Tech fellows can take in on account of the limited number of tickets that are sold for the Winter Concert. After the concert on Friday evening in Jordan Hall a general reception will be held in order to entertain the Wesleyan men.

Tickets are now on sale and may be obtained from any of the members

(Continued on page 4.)

TECH MEN TO HAVE B. Y. M. C. A. PRIVILEGES

T. C. A. Makes Arrangements Whereby Its Members Are Granted Reduced Rates.

The General Secretary of the T. C. A. has made arrangements with the Boston Young Men's Christian Association whereby all paying members of the Tech Association may have the same rights at the new building as men who pay the \$2.00 membership fee to the Boston Association. By "paying members" is meant those who pay into the treasury of the T. C. A. a minimum sum of one dollar per year.

A card signed by L. R. Talbot will be honored at the building of the Y. M. C. A. Any man presenting such a card will have the free use of the social and game rooms, and admission to any entertainments and meetings that may be held in the building, on exactly the same basis as the members of the Boston Y. M. C. A. He may join the various clubs—chess, camera, "Land and Water Club," etc.; he may go to the summer camp at Sandy Island, Lake Winnepesaukee, N. H., at the regular rate, and in short he will be treated just as any member of the Boston Association.

Upon payment of the special fees a member of T. C. A., upon presentation of this card, may purchase any of the special privileges at the regular rate. That is, he may use the billiard and pool rooms, the natatorium, the bowling alleys and the gymnasium. The equipment of the new building of the Y. M. C. A. is second to none in the country.

A man who desires to swim in the tank will either pay the regular fee per swim, or he will purchase a natatorium privilege ticket at the regular rate. A man who is not a member of the Association is not allowed to use the tank under any conditions.

As soon as possible there will be placed on the table of the T. C. A. in the General Library some circulars giving full information concerning the Y. M. C. A. The secretaries of the T. C. A. will have these folders at the office as well, and they will be glad to answer any questions that may occur to the Tech men concerning this plant, and give information as to its details. Cards have already been ordered and the printer has agreed to rush the work so that in a very few days the General Secretary of the T. C. A. will be prepared to furnish cards to all Tech men who are members of the Association, and who have contributed at least \$1.00 to the local association.

WEATHER

For Boston and vicinity: Fair and colder, northwesterly winds.

CALENDAR

Saturday, November 23, 1913.
I. C. A. A. A. Cross-Country Meet at New York.
3.00—Cross-Country—Field.
Saturday, November 22, 1913.
3.30—Dr. Fleischer at Huntington Hall; Subject, Sanity.

THE TECH

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Advertising Manager.....1.30 to 2.00 P. M.
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SATURDAY, NOVEMBER 22, 1913.

In Charge of This Issue:

Editors—K. D. Hahn '15, Stimets '16
Assistants—Palmer '17, Stringfield '15

THE Y. M. C. A. OFFER

We know that Tech men will feel grateful for the privileges which the Boston Y. M. C. A. is extending to them. With its new building and superb equipment, there is no doubt that the organization is far the best of its kind which is within the reach of Institute students, and its is safe to say that their appreciation of the offer will soon be made apparent. Too many of us neglect just these things. Too many of us drift along by ourselves, especially if we come from a distance, without ever trying to find out the good things which the city of Boston has to offer, and without the comradeship with other young men which ought to be fostered, not alone among our fellow-students, but also with the outsiders whom we chance to meet in social and other ways.

We are told by Mr. Talbot that these additional Y. M. C. A. privileges are being extended to us largely through the courtesy of Mr. G. W. Mehaffy, the General Secretary in this city. To Mr. Mehaffy we desire to express our gratitude for his interest in us. We feel safe in assuring him that Institute men will benefit by the new arrangement in ways and in numbers which will make his Association an instrument of more extended benefit than before.

LATIN-AMERICA

We are in sympathy with the viewpoint of Masferrer in regard to the relations between South America and the United States. It is undoubtedly true that business and—which is of greater concern to us—professional relations, are becoming constantly

SCIENTIFIC AND ENGINEERING NOTES

For several months past some of the leading gold-mining companies of the Rand have been conducting experiments in electric blasting in order to test the theory that this method will materially assist in minimizing the fine dust from blasting—accepted as the most direct cause of miner's phthisis—which is at present so widespread in connection with the Rand gold-mining industry. One of the largest syndicates has for some time been experimenting in this direction, and more recently the General Mining & Finance Corporation has been conducting similar tests. Several stopes were fired with very satisfactory results in the Meyer & Charlton mine, and it is now stated that the management has decided to introduce the electric system throughout the mine. It is hoped to have the electric system of firing so introduced in the mine that blasting will be done by pressing a button on the surface. This insures that the miners will not be forced to inhale the fine dust, and all that is then required is the proper ventilation of the mine before the return of the miners. In case the electric tests now being conducted are a pronounced success, as seems likely, this method of blasting will undoubtedly be incorporated in the mine regulations and will go a long way toward minimizing the danger to health at present caused by the fine dust attendant upon the prevailing practice

C. E. TRIP REPORT

Professor Breed Personally Conducts The Men.

Professor Breed conducted the students of the Civil Engineering Society on a trip to the grade crossing elimination site at Lynn. The professor lectured previously to starting on the trip showing slides of the various views and pointing out the important features. The work consisted in construction a watertight bridge on as few columns as necessary. The project was of vast importance, being a three million dollar enterprise and on the main line of the B. & M. four-track system. The men who took the trip were taken over the route and shown the details of the work at Central Square.

SOPHOMORE BALLOTS

The Sophomore ballots will be due at the Cage next Tuesday at 4. They will not be accepted after that time, and in order to be valid the class dues must be paid. The ballots can now be obtained at the Cage.

Word is received from the Virginia Polytechnic Institute that the Mechanical Club of that school will secure a charter in the American Society of Mechanical Engineers.

The Illinois University Daily states that over ten per cent of third year students in all departments have attained a grade of 88 per cent and over.

closer. Anything which would enable us better to appreciate industrial conditions in the other continent would, as Masferrer pointed out, be of value to many of us as professional men. Numbers of Tech men are planning to try their fortunes in the Latin-American countries after graduation, and a course in Latin-American history ought to make an appeal to these, as well as does the Spanish course which is given at the present time. We think, however, that such a course should be purely elective.

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By J. A. AURINGER, C. E., A. B. CO. ENG'R.

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NEW TECHNOLOGY SITE

(Continued from page 1.)
charge. At this building is the entrance to the ground; for the whole estate has now been enclosed by more than a mile of fence, so that loiterers may not be interfering with the workmen.

The large building parallel with the B. & A. tracks on the far side of Vassar Street is the main warehouse. Here will be kept the general stock from which the division houses will replenish their supplies. The principal item here now is a couple of thousand barrels of cement, which is only about two per cent of what will be required for the completion of the structures. The machine shop and blacksmith shop are also near at hand on Vassar Street. At the far end of the Esplanade is the chalet of the architect William W. Bosworth where his busy force is now at work. Two of the towers for the distribution of concrete are now in place, the first of the set of seven that will be erected. These will be one each for the different divisions and together they will handle the veritable river of concrete that will be flowing six months hence, and will deliver it anywhere within the area of twelve acres that the structures now under way will require. Each tower has a radius of action of about two hundred and fifty feet.

Up to the present moment the construction has presented the anomaly of being destructive. It has included the excavation of about twenty thousand yards of material from where the buildings are to stand. To offset this there has been the constant filling in of the Great Court. This has been done by train, and about fifty-three thousand cubic yards have been brought from the subway excavations, about twenty-seven hundred carloads of the dirt from a section of the subway a couple of hundred feet long.

To give an idea of how the buildings about the Great Central Court will loom up, it merely necessary to say that the floor of the court itself will be five feet above the grade of Massachusetts Avenue and nearly twenty feet above the Basin. This is where the bases of the buildings will rest, while the lofty structures will be dominated by the great dome of the Library, which touches nearly two hundred feet. As to the buildings themselves, the basement floors will be only three and one-half feet below the street level of Massachusetts Avenue, and the first floor will be at fifteen feet above this.

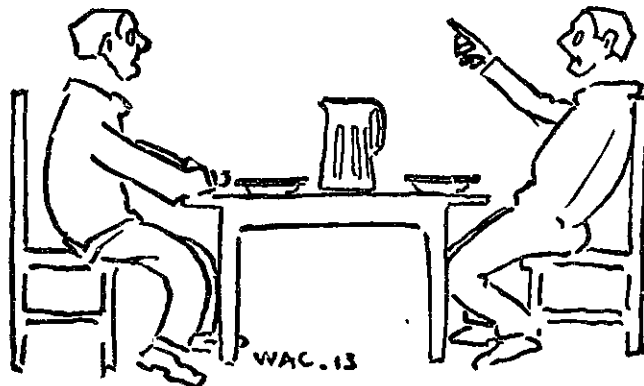
Till now it has been only the testing of the ground on which the foundations are to rest that has been attempted. Piles have been driven and weighted to determine the subsoil conditions. Next week it is expected that the trenches for the foundations will be dug, and the pile-driver will quickly follow. Some idea of the enormous quantities involved in the Technology constructions may be gained from the estimate of twenty thousand piles. These will be required for the immediate work, and if they should be brought to the site at one time, there would be required something like five miles of train to bring them.

FACULTY NOTICE

Problems in Physics Heat 802 due Dec. 1, 1913, in 4 Walker. The numbers in the old edition of the problem book were announced in lecture. The corresponding numbers in the new edition are: 8, 15, 28, 35, 45, 57, 59, 65, (72 and 73), 80, 87, 99, 101, 102 and 104.
C. L. NORTON.

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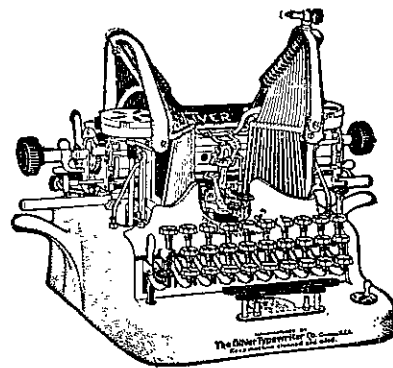


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STUDENTS

PATRONIZE

OUR ADVERTISERS

LATIN-AMERICANS

(Continued from page 1.) colleges, has no permission to grant degrees. It is quite natural, under the circumstance that the young men of the nation should seek higher education in foreign lands. Many of them come to America, but most of them, owing to the lower cost of living and greater similarity of European than American to Chilian educational systems, choose Europe. Of the one hundred students now in foreign countries, only seven are in the United States.

The speaker concluded with a short review of American industrial enterprise in his native land. Several large concerns from this country now have branch offices in Chili, notable among them the Braden Copper Company and the United Shoe Machinery Company. These companies have done much to build up the industries of South America, and are giving employment to thousands of people.

Masferrer, in his address, outlined the educational progress which has been and is being made on the island of Porto Rico. With the dense population of the island, it has been necessary for the people to devote a large amount of attention to the development of intensified industry and agriculture, and training in these forms an important factor in educational methods. The fact that only a small portion of the population can afford a college training makes it imperative that the elementary training be of an unusually high grade, and this object is well attained, great emphasis being laid, of course, on excellence in the industrial branches.

The American occupation of Porto Rico in 1898 was followed by the introduction of an educational system as complete as that in any state of the Union, a system which culminates in the University of Porto Rico. This University is offering inestimable advantages to the youth of the island, who are highly appreciative of the opportunity which it gives them to become trained in the use of the English language and in American business methods.

Two classes of students come to this country from Porto Rico; the scholarship students who are sent by the government; and the other students, who are attracted by the educational advantage of the country, and are able to pay their own tuition. The law provides that twenty-five scholarships shall be granted to men, and fourteen to women students. Preference is given, in the awarding of the former to men choosing work along scientific or agricultural lines. Many of those at scientific schools are at the Institute.

The education of young women differs but slightly at the present time, from what it was in the old Spanish days. Although a few of the people have advanced ideas as to the training which girls should receive, the majority still have faith in the efficiency of the Catholic convents. These convents have come to be built in increasing numbers, so that now many girls are given an education who would, before it was possible to receive training outside of Spain itself, have been denied this privilege. With the consideration of these institutions Masferrer brought his remarks to a close.

The Tech men who attended the Conference all felt well repaid for the trouble of the trip. They were, while at Worcester, the guests of the Delta Chi Epsilon fraternity. They are desirous of expressing their thanks for the courtesy with which they were treated as well as for the kindness of the faculty of Clark Col-

CANDIDATES MEET

(Continued from page 1.) two editorials each week, on subjects of interest to the student body, chosen by the man himself. In this department are also expected to work one evening each week in getting out the paper.

Homer Rogers '15, Circulation Manager, emphasized the broadening effect of the work in the news department. Constant practice is given in writing readable articles. The ability to write so as to be clearly understood is of great practical value to every man. Besides this the men who collect news meet all the men who are most prominent in Institute affairs. He comes constantly in contact with the broadest men in the student body,—the men who come to the Institute not merely for studies, but who try to help the activities,—and such contact cannot but broaden the new man.

JOINT CONCERT

of the Musical Clubs or at the Cage. The tickets will be redeemable for reserved seats any noon at the Union beginning Tuesday.

The program for the concert is as follows:—

Love Chat Waltz Acker
 Wesleyan Mandolin Club.

The Sword of Ferrara Bullard '87
 Technology Glee Club.

The Song of the Boatmen on the Volga,
 Russian Folk Song
 Technology Mandolin Club

Solo, Selected

Mr. Stuntz.
 Technology Banjo Club.

(a) Come Raise the Song.
 (b) My College Davis '94

Combined Technology Clubs.
 Intermission

My Hame is Where the Heather Blooms,
 De Koven
 arr. by Max Spicker
 Wesleyan Glee Club.

Peter Piper, S. R. Henry
 Technology Mandolin Club.

Three for Jack, H. W. Squires
 Technology Quartet.

Chapel in the Mountains, Wilson
 Wesleyan Mandolin Club.

The Stein Song, Bullard '87
 Technology Glee Club.

Victory, Waite '06
 Combined Wesleyan Clubs.

WANTED

A few more young men, interested in Bible study, to join a class, which meets Sundays. Experienced man teacher. No charge. Address F. B. G., care of THE TECH.

lege, under whose auspices the Conference was held, in inviting them to attend and to furnish speakers.

Masferrer, in an interview with a reporter from THE TECH, mentioned one thing the need of which at Tech he believed to be great: a course, namely, in Latin-American history. The fact that there are thirty-eight Latin-American students at the Institute, he thinks, shows that business and professional relations between the two continents are becoming closer, and he feels that if such a course could be offered as one of the general studies, many men would grasp the opportunity to learn a little about the development and nature of South America which might lead, eventually, to their endeavoring to make this comparatively new continent the scene of their professional lives.

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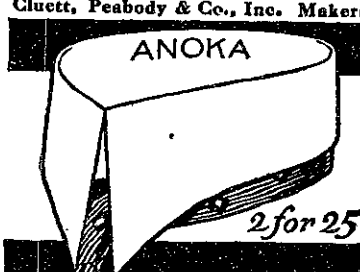
TECH BOWLING HEADQUARTERS

Established 1898. Opposite the Union

Two minutes walk from all Tech Buildings. Unexcelled facilities; the most fastidious Bowler can enjoy this fascinating and healthful pastime.

Alleys reserved and screened for private parties.

Come in and enjoy a little fun and exercise between periods.

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 HUYLER'S CHOCOLATES AND BONBONS

"A little out of the way
 but it pays to walk."

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 The Tech Union**

42 Trinity Place
 Half a Grape Fruit served with a 15c.
 Breakfast.
 How do we do it?
 Come and see.