

THE TECH

VOL. XXXII. NO. 50

BOSTON, MASS., THURSDAY, DECEMBER 5, 1912

PRICE TWO CENTS

IMPORTANT MEETING OF WIRELESS SOCIETY

11 Members Should Be Present Today in 11 Eng. B, at 4.15 O'clock.

A regular monthly meeting of the Wireless Society will be held at 4.15 in afternoon, in Room 11, Eng. B. All members of the society and anyone who is interested in the subject are earnestly requested to be present. The officers of the society. The wireless law will be explained in various phases, and application blanks for operators' license will be read. A Freshman member of the executive board will be elected.

GEORGE W. COLEMAN

Address T. C. A. in Union On "Keeping Your Equilibrium."

The secretary of the T. C. A. has succeeded in obtaining Mr. George W. Coleman, a man of broad experience in the business and political world, for this afternoon's talk. Mr. Coleman's subject, which should prove to be entertaining to every Tech man, is "Keeping Your Equilibrium," and in view of its interesting title a large attendance is expected. As usual the meeting will take place in the Union at 4.30 o'clock.

Mr. Coleman is the president of the Associated Advertising Clubs of America, a national organization including many clubs throughout the country in the interest of better advertising. In addition to his duties in this capacity he is the Director of Publication for the W. H. McElwain Company, a local boot and shoe manufacturing concern. Mr. Coleman was one of the eight delegates from the State of Massachusetts at the Republican National Convention in Chicago last summer. Pledged to support Mr. Roosevelt, he became a leading factor in the formation of the new party in the State, and was engaged in active work for the Progressive Party. At the Ford Hall meetings, which have been extremely popular in Boston, owing to his success in a large measure to Mr. Coleman as a director. The meetings consist of a series of lectures on subjects pertaining to religious, social and scientific life, and are open to the public. Due to Mr. Coleman's energetic efforts these lectures have been extended to other cities and have accomplished much good.

UP THROUGH SUBWAY.

Engineers Will View New Subway Under Construction.

Next Saturday afternoon the Civil Engineering Society will make a trip through the new Boylston street subway now under construction. When completed this subway will go from the present Tremont street subway, up Boylston street to the railroad, where it will run off to the right and cut diagonally across, under the Fenway, Commonwealth Avenue, coming to the surface at Kenmore street, just below the "Three Corners." The party will meet in front of the Walker Building at 2.00 P. M., and proceed from there to the subway. The tour will be conducted through the subway by one of the engineers at the construction. The party is limited to the members of the society and others interested in the work.

TECHNOLOGY WINS FIRST HOCKEY GAME

Defeats Pilgrim A. A. at Arena in Fast Game Last Night—Score 4 to 3.

Technology beat the Pilgrim A. A. at the Arena last night to the score of 4 to 3. The playing was fast throughout, but there was no doubt that Technology would be victorious. In the first period there was no scoring, though several tries were made by Technology. These were blocked by some brilliant playing on the part of the Pilgrim A. A. goal tender.

Eleven seconds after the second quarter had started Foote, by clever individual playing, caged the first goal for Tech. This was followed shortly after by another by Hurlbutt. Late in the second quarter Hurlbutt got the third goal after receiving a pass. Then Fritz, of the Pilgrims, got the first cage for the team.

Backed up by excellent team work, Foote was able to score again in the third quarter. Then in the fourth quarter Fynan and Toulan, of the Pilgrim A. A., brought the score up to three for their team.

Men were frequently put off the ice for fouls, so that at one time the A. A. had only four men in the game. The stars for Technology were Foote and Hurlbutt, with Ranney and Stucklen close seconds. The team work was well developed for this time of the season. Fynan, the fastest man on the ice, was the star for the A. A., and Dennasha also showed wonderful speed.

(Continued on Page 2, Col. 1.)

WINTER CONCERT.

Musical Clubs to Render Program, Followed by Dance.

The annual Winter Concert of the Combined Musical Clubs of the Institute will be given this evening in Copley Hall. A dance will follow, to which all are invited who are present during the concert. Already more tickets have been purchased than in preceding years, and the success of the concert is now assured. The program will commence promptly at 8 o'clock, and last an hour and a half. V. M. F. Tallman, '14, is to sing two tenor solos in which the Technology Orchestra will accompany him. His selections are: "Venetian Love Song" and "Oh, Promise Me." A vocal quartet from members of the Glee Club, consisting of K. C. Robinson, '12; V. M. Tallman, '14; G. A. Swenson, '13, and R. C. Doremus, '14, will sing two selections. Poole's Orchestra of eight pieces has been engaged to furnish the latest dance music. Programs may be obtained by the Union. The dance will be over at 2 A. M.

NEW REGISTER GOOD

Has Been Commented Upon With Great Favor.

The new Register of Former Students which appeared early in the summer is the most complete publication of its kind that has ever been attempted by the Institute. A comparison of this directory with the similar one published four or five years ago shows a tremendous improvement. The present book has been commented upon with great favor everywhere, and every Tech man would find it to his advantage to have one. They may be obtained on request.

GROWTH OF CIVIL ENGINEERING SOCIETY

Professional Society of Course One Has Been Established Since 1889.

The Civil Engineering Society, the largest and one of the most active of the professional societies at the Institute, has had a very interesting existence since its inception in 1889. The society was formed by about forty members of the Classes of 1889 and 1890 at a series of meetings held in February, 1889. At that time the officers of the society were president, vice-president, secretary, treasurer and executive committee of three members, and a program committee of six members. Since February of this year the society has also had an assistant treasurer, elected from the Sophomore class.

This year J. J. Strachan, '13, is the president of the society. Last year he was its secretary and a member of the Technique Electoral Committee. He is also a member of the Walker Club. M. E. Langley, '13, is the vice-president, elected this month to take the place of Mattson, the Senior Class President. C. W. Brett, '13, is the treasurer, and P. E. Merrill, '14, is the secretary. This year the assistant treasurer is A. F. Peaslee, '14. The three members of the Executive Committee are F. D. Murdock, '13, R. B.



J. J. STRACHAN.

Nichols, '13, and A. G. Ranney, '13. The Program Committee is made up of M. E. Langley, chairman ex-officio, E. L. Macdonald, '13, L. W. Gustin, '13, H. N. Calver, '14, and C. H. Ober, '14. Macdonald is the publicity agent for the club, besides being a member of the Program Committee.

The membership of the society has gradually grown since 1889, until now about two hundred men are members. Almost all the Seniors of Course I, as well as the majority of the Juniors, and a few Sophomores, are in the society at present, but not all the men who are eligible have as yet applied for membership. About 1903, the attendance at the regular meetings of the society began to exceed 100 men, and since that time as many as 150 men have turned out to hear the speakers. The society has had over two hundred and twenty regular (Continued on Page 3.)

CATHOLIC CLUB HEARS TALK BY MR. MULLEN

Last Night's Speaker Recommends Daily Reading to Members of Club.

The third meeting this year of the M. I. T. Catholic Club was held in the Union yesterday evening, with an attendance of sixty-four men. After a very good dinner President Walsh introduced Mr. Thomas A. Mullen, Harvard, '84, as the first speaker for the evening. Mr. Mullen was the first president of the Catholic Club of Harvard, president of the Young Men's Catholic Association of Boston, and formerly teacher of Latin and Greek in the Boston Latin School.

Mr. Mullen said that he had accepted the invitation to speak before the club with the understanding that his subject would be "The Influence of St. Thomas Aquinas on Modern Science," with special reference to the atomic theory, light, heat and other physical and chemical phenomena, but when he considered the fact that we are chiefly concerned with such things in our Institute life he decided to make his address of a more general character. He stated that ever since he had studied the history of philosophy at Harvard he was firmly convinced of the superiority of the philosophy of St. Thomas Aquinas over that of Descartes and others. St. Thomas was not the originator of his views however, for they were also held by Augustine and by the greatest of all philosophers, Aristotle. Mr. Thomas Davidson, who at one time gave a course of lectures in the Lowell Institute, said that the world had made a great mistake by not adopting it instead of the philosophy most generally studied today. Then Mr. Mullen spoke of the great advantages to be derived from the careful reading of good literature, more especially biography and history, even though only a very small amount of time was spent on it daily. For the last thirty years he has missed hardly a day when he did not spare at least an hour reading something of this kind, usually a little in several books. He most strongly recommended that every one spend at least fifteen minutes a day, and had estimated that at this rate the entire works of Parkman could be read in a year.

(Continued on Page 2, Col. 2.)

FRESHMAN BALLOTS.

The ballots of the Freshman Class are due today at 4 P. M., at the Cage. The results of the election will be out in tomorrow's TECH.

WEATHER.

Forecast for Boston and vicinity: Rain; moderate southerly winds.

CALENDAR.

Thursday, December 5, 1912.
4.15—Wireless Society Meeting—11 Eng. B.
4.15—Tech Show Orchestra Rehearsal—Union.
5.00—Freshman Ballots Due—Union.
6.30—Finance Committee Dinner—Union.
Friday, December 6, 1912.
8.00—Winter Concert—Copley Hall.
Saturday, December 7, 1912.
7.00—All-Technology Dinner—Union.
8.00—New England Wireless Society Meeting—Tufts College.

THE TECH

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

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Office Hours of Editor-in-Chief:
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Subscriptions within the Boston Postal District and outside of the United States must be accompanied by postage at the rate of one cent a copy.

THURSDAY, DECEMBER 5, 1912

We are glad to print another of the editorials that have been presented in the Pi Delta Epsilon contest. It is published without editing.

BEER AT TECHNOLOGY DINNERS.

During our life at Technology it behoves us to so bear ourselves as to avoid any chance for outside criticism, exaggerated though it may seem. This is important, not only for our personal reputations, but for the best interest of the Institute. We have been the object of much adverse criticism and should do all in our power to curb any tendency we may have to give to the public just grounds for unfavorable opinions in regard to the Institute.

Is the serving of beer at Technology functions conducive to furthering the good name of the Institute? There was a time when drinking was common and its practice, even when carried to extremes, was not seriously frowned upon. But the day is passed; with the coming of a new age the moral standard has been raised, and as we advance indulgences are being tolerated less and less. So it has been in the life of the Institute. A number of our organizations have come to realize that the serving of beer at their gatherings was not for the best interests. Although some may drink with apparent impunity, it does not follow that the custom is best for all. It is a lamentable fact that the downfall of many a fine young man began with his learning to drink at college functions.

The moral status of Tech men is one that any college may well be proud of, but we may still improve. Let us make the Institute a place of purely wholesome surroundings, where every tendency may be for the upbuilding of its men into strong and noble characters. Let us keep our good name from danger; may we take to heart the best interests of our Alma Mater and use our influence in such a way as to win the respect of all observers.

HOCKEY VICTORY.

(Continued from Page 1, Col. 2.)

The lineup was as follows:

Technology. Pilgrim A. A.
Huributt, c.....c, Dennasha
Foote, r.....r, Fynan
Fletcher, rw.....rw, Fritz
Storke, lw.....lw, Marston
Stuecklen, cp.....cp, Lane
Eichorn, p.....p, Whitten
Raney, g.....g, Zanahn
Substitutes: For Technology, Rogers for Storke, Stearn for Rogers, Tapley for Eichorn. For Pilgrim A. A., Shriver for Lane, Lenihan for Zanahn, Toulan for Marston.

TECH IS CONSPICUOUS AT HYGIENE CONGRESS

Thirty-two Out of One Hundred And Thirty Papers Read Are by Tech Men.

At the meeting of the American Public Health Association and at the exhibition given by the International Congress on Hygiene and Demography, held in Washington recently, Technology and Institute graduates took an exceedingly active part. Out of one hundred and thirty-two papers presented at the session thirty-two were written by either professors or former students of the Institute.

During that week it may be said that practically the entire department of biology and public health of Technology was in Washington. Professor Sedgwick was heard before the larger general session in two important papers. In his first paper he advocated the greater use of cold storage processes under municipal or State supervision, because the high cost of living demands the greater use of grades of food, not the best, but containing valuable products which, under existing conditions, are wasted. His second paper was a plea for the use of common sense in public health work and a protest against dogmatic practices which have been current in the medical profession and in public health enterprises.

There was no meeting of any section at which Technology was not represented among the speakers, for from Professor Sedgwick's department graduates have gone into important health offices the world over.

The suggestion came from Doctor Winthrop Talbot, '88, of Cleveland, that hygiene in the factory and in factory management is an important branch of the public health to which too little attention is given by such bodies as the American Association. He showed that while there were sections for vital statistics, laboratory work, sanitary engineering and sociology, there was nothing that would cover the care of the health of workmen, although such men form fully eighty per cent. of the population.

Another interesting and active graduate of the Institute was Doctor E. C. Levy, '04, health officer of Richmond, Va., who infused his personality into the meetings of the municipal health officers, and in addition read one or two papers before other sections. Professor Winslow, '04, reported to the laboratory section a standard method for the examination of air, the result of committee work and of the recent extended experiments which he has been conducting with the air of New York City in school houses, factories and the public streets.

Many other Tech men spoke on various subjects, and altogether the Institute made a very notable showing.

CATHOLIC CLUB.

(Continued from Page 1, Col. 4.)

In closing he said that he knew the Institute to be one of the hardest schools in the country—the only possible exception being the Harvard Law School—and wished to impress the men with the advantages to be gained through the concentration and singleness of purpose which such hard work required. He asked them to apply it in all their work and to "make the world a little better, a little stronger for your being in it." Do it for posterity if not for yourself, and certainly do not take the attitude of Sir Boyle, an Irish statesman, who when asked to do something for posterity, replied: "Hang posterity, what's posterity ever done for me?"

The president thanked Mr. Mullen on behalf of the society and introduced Father Scanlon, who heartily approved of the speaker's ideas, and also recommended that the society pledge itself to give a certain number

(Continued to Page 4.)

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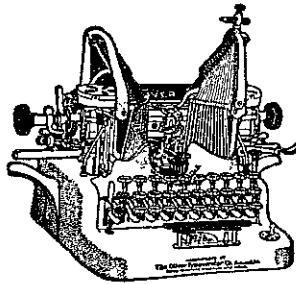
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INTERESTING THESIS OFFERED TO CHEMISTS

Subjects This Year Cover Broad Field and Show Scope of Work Done.

The Department of Chemistry and Chemical Engineering is offering this year an interesting list of provisional subjects for the thesis of the graduating class. These subjects are an indication of the kind of work that the courses in chemistry here train a man to do, even before he leaves the Institute.

The subjects offered to men who are specializing in Analytical Chemistry are as follows: A study of the tetramolybdate method for the determination of rubber, the determination of traces of lead in baking powder, the use of cuperen in analytical chemistry, the determination of vanadium in steel, electrolytic determinations with magnetic stirring, the detection and estimation of minute quantities of lead, the copper reduction methods of determining sugars, investigation of double polarization methods of determining crose, the reducing sugars of commercial sugar syrup, commercial glucose candies, the analysis of glue for the presence of bone and fish glue, comparison of methods for determining methane and hydrogen, the determining of hydrogen by palladium sponge, the separation and determination of oleic acid, the determination of the temperature most suitable for the ignition of residues in water analysis, improvements in methods using negative elements in organic analysis, the quantitative determination of nitrogen.

The subjects in Chemical Engineering are as follows: Vapor pressure, temperature and composition curves, industrially important solutions, measurement by Pitot tubes, temperature change of the viscosity of reaction oil, the flow of non-Newtonian liquids through orifices, dry "fibre board" by artificial heat, factors affecting the rate of solution of solids, applying absorption laws to extraction of tannin from bark, study of reaction between a liquid and a solid, the influence of the size of particles of portland cement upon its ability to "set" with water, study of the specific gravity of balls used in ball mills to determine efficiency, drop in pressure in a steam pipe under various rates of condensation, and electric furnace factors.

Various subjects have been offered in Industrial Chemistry. They are as follows: The relative resistance of the contact surfaces of metallic anodes, preparation of oxalic acid from carbon dioxide, the electrolytic oxidation of nitrites to arsenates, a temporary method for steel wire reinforcing, influence of the composition of waters on their corrosive action, the preparation of cerium chloride from cerium metal, and the reclaiming of rubber by special reference to the elimination of part of the filling material.

The following provisional subjects are offered in Inorganic Chemistry: A study of the relationship between heat content and physical properties of tile steel, study of the deposition of salts at the cathode, study of the color of some colloidal substances, electrolytic current, oxidation at the anode, the composition of gas, and the study of the metallic elements Sb, Sn.

The following subjects have been offered in Physical Chemistry: Spectrum of oxidation and reduction reactions, study of barium amalgam, development of new laboratory methods in theoretical chemistry, study of the acidic character of copper and the reduction temperatures of oxides by carbon monoxide.

Men interested in Sanitary Chemistry try the following subjects are offered: Chemical methods of determining

(Continued on Page 4)

BULLETIN ISSUED.

Proof of Institute Quarterly Contains Register of Students.

The first proof of the Quarterly Bulletin of the Institute has been issued to the professors, and in the latter part of this week the corrected edition will appear. This issue is the only one published during the year containing the list of students, and many interesting facts are drawn from the summary.

Two non-resident students are now studying for the degree of Fellows, and it is an interesting fact to note that they are both Germans. There are at present three candidates for the degree of Doctor of Engineering, four for the degree of Doctor of Philosophy, and twenty-six for the degree of Master of Science. The graduate students number 230. There are 295 classified students in the fourth year, 260 in the third, 230 in the second, and 327 in the first year. The special students number 42, while the unclassified total to 422. This leaves a total of 1611 students studying in the Institute after names which were counted twice have been subtracted. This number compares favorably with those of past years, exceeding that of last year by 105, and exceeded in turn by that of only one year, in 1894-1895, when 1783 students were registered. The nearest approach to the present number came in 1902-1903, when 1608 students were registered at the Institute.

The courses of study as offered in this edition relate only to the present year, and in 1913 several important changes are to be made, especially in Courses 5 and 10. In the former, Qualitative Chemical Analysis will be studied in the summer school following the first year, and it is followed by Quantitative Analysis in the second and third years.

C. E. SOCIETY.

(Continued from Page 1, Col. 3.) meetings as well as innumerable trips to places of interest in this city and others. The most famous of these trips was one made last year by thirty-two of the members of the society under the guidance of the Civil Engineering department. The men left for New York April 3rd, and spent three days in inspecting many of the most interesting engineering structures there. The first morning they inspected the Blackwell's Island and the Brooklyn Bridges under the guidance of Mr. Strachan of the New York Bridge Department. That noon they lunched at the Technology Club, and then they inspected the construction work on the Woolworth Building at the invitation of Mr. Shaffer, '10. In the evening the men were the guests of the Brooklyn Engineer's Club.

The next morning the men visited various parts of the Croton Waterworks System. They saw the Yonkers pressure tunnel, the Elmsford siphon, and the Croton Dam.

The last day the men spent visiting railroad terminals. Mr. Kittredge, '77, chief engineer of the New York Central, showed them through the Pennsylvania and the Grand Central stations. In the afternoon they saw Delaware and Lackawanna's Brush type of terminal at Jersey City.

This year the society has already held three meetings, and is planning a trip for Saturday afternoon. The first meeting was to acquaint the members of the society with the advantages of the new Civil Engineering Camp at East Machias. On November 6th the men heard a talk on "Tunnel Construction" by Mr. C. R. Gow. At the last meeting W. E. Adams, '08, spoke about the Philippines.

The trip Saturday is open to all men who are interested in the new subway. The society plans to have many of its meetings open to the students at the Institute who are not yet members, and at such times everybody who is interested is welcome to attend.

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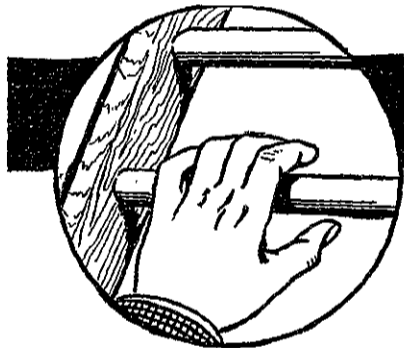
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SAT., 8 to 10.45. TOSCA. Amsden, Sacchetti, Blanchart. Cond. Moranzoni.

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HYGIENIC CONGRESS

(Continued from Page 2.)

of volumes per year to the library of the Institute.

At the business meeting which followed, J. J. Murphy, Jr., was elected Freshman member of the Executive Committee, and Wiseman, '12, Chambers and Thomas, '13, were appointed to consider the matter of donating books and subscribing for the "America" to put in the General Library. It was also voted that the president appoint a committee of five, which, together with the Executive Committee, will take charge of the dance to be held shortly after Lent. This joint committee will be under the leadership of a chairman also to be chosen by the president. The price of tickets this year is two dollars.

COMMITTEE MEETING.

The Finance Committee will hold a dinner today in the Union at 6.30, followed promptly at 7 o'clock by the business session. Although no particularly important business is slated, a full attendance is desired. All members of the committee who do not intend to attend the dinner should notify the secretary, C. W. Brett, for if they do not, a fine of fifty cents, which is the cost of the dinner, will be imposed on them.

OFFER TO CHEMISTS

(Continued from Page 3.)

mining shells in powdered cocoa, essential oils of nutmeg and peppermint, the determination of fat in food products, the character of the solids of ginger extract, caramel in vanilla extracts, detection of ketchup made from spoiled materials, formic acid as a disinfectant, alum needed to de-colorize and clarify drinking waters, efficiency of hot plates, examination of inks and of overwritten and underwritten documents.

In Organic Chemistry eight subjects deal with the reactions and products of organic compounds, while there are several of a more commercial nature. These are the quantitative determination of acetaldehyde in concentrated aqueous solutions, the tannin of hops, the separation of the more common sugars by precipitants, the composition of the higher fractions of turpentine, the examination of kauri resin oil, the composition of "resin spirits," the purity of methane produced by heating sodium acetate and caustic soda, and the composition of menhaden oil.

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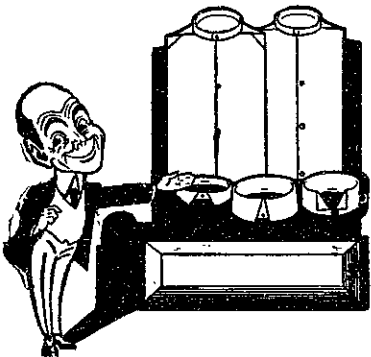
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