

# THE TECH

VOL. XXXIII. NO. 27

BOSTON, MASS., WEDNESDAY MAY 7, 1913

PRICE TWO CENTS

## NEW COURSE TO BE ESTABLISHED

### "Industrial Physics" Course Will Be First of Kind in Country

President Richard C. Maclaurin has announced the establishment of a course that will be unique in educational institutions, one in industrial physics. This is the outcome of the need for men trained in physics for the solution of problems that present themselves to the industrial world.

The new course is the outcome of a real need that has been voiced by President Theodore N. Vail of the American Telephone and Telegraph Co., who has said that more and more business firms find it to their interests to undertake research in chemistry and physics, the direct relations of which to their specialties are not always obvious. And when one looks over the chemical problems of the day it is evident that many of them are really in the field of physics.

In establishing the course the Institute is a pioneer, as it has been in so many other lines of technological education. It was the first school in the country to establish a course in physics at a time when there was no course leading to a degree in this study. In 1873, Technology laid out a course that was comparable in extent and thoroughness to the courses leading to engineering or other professions. In 1882, the Institute established its department of Electrical Engineering, an outgrowth of the department of physics, and again in 1901, the parent department, anticipating the demand for men specially trained along the combined lines of physics, electric engineering and electro-chemistry, established the first course in the country leading to a degree in electro-chemistry.

The suggested option differs from those hitherto constituting the course in physics (Course VIII) in requiring a less extended study of pure and applied mathematics and a fuller consideration of applied physics, both in the lecture room and laboratory. The study of applied optics, heat measure-

(Continued to Page 2)

## CHEM. SOC. NOMINATIONS.

### All Papers Due at Cage on Friday, May 9th, at 4 P. M.

The nominations for the Chemical Society are due Friday, May 9, at 4 P. M., and the following officers are to be elected: President (1914), vice-president, secretary, treasurer and Program Committee, consisting of two men, one from the class of 1914 and the other from 1915. Each nomination paper must have the signatures of ten members in good standing in order to be valid, and they are to be left at the Cage. The nominations are to be addressed to the Executive Committee of the society, and the members are urged by the officers to hurry their papers along so that there will be a good list of men on the ballots. These ballots will be ready for distribution on Monday, May 12th, and they will be due Friday, May 16th, at 4 P. M.

The Chemical Society will hold its annual banquet on the last mentioned date, and the results of the election are to be announced at that time. An interesting program has been arranged for the banquet. A large attendance is expected.

## TRACK MEET WITH B. A. A. ON FRIDAY

### Half-Mile With Marceau, German and Bylund Will Be Star Event.

On Friday there will be a practice track meet between the B. A. A. and Tech. Last year Tech won by a handy score, and this year, partly through better men and partly through a full list of entries, should be able to duplicate that performance. There are a great number of men who may possibly run for the B. A. A. but who are liable to be held away at the last minute. The list of men given below gives all the men who are at all likely to run.

In the dashes, Hiney and Halpin will oppose Wilson, Wilkins, Loomis, Hine and Crankshaw of Tech. Of these all have been out regularly with the exception of Halpin.

The four-forty is still the favorite in the number of entries. Guething, Reed, Gagnon, Baker, Laurence, Peaslee and Bolton will run for Tech, and against them will be Robt. Greene, Galligan, Osgood, Sullivan and Jesse Greene.

A good race may be expected in the half with Marceau, the former Tech runner, running against German and Bylund. Besides these three Guething, Dean, Pollard and Goldstein will run for Tech, while the B. A. A. will have Warner, Mahoney and Ryan.

Hedlund will start in both the mile and two-mile, but the main trust of the club is placed in Powers, who beat Tabor last February at Providence. Both teams are low in the number of milers, Tech having but Palmer, Wilkins and Gray.

In the two-mile there will be a good race. Besides Hedlund the B. A. A. will have Sullivan, Hennigan, Cook and Silva. Besides Cook and Wall are Benson, Wilkins, Lee, Nye, Holway and Best running for Tech in this event.

The B. A. A. is weak in the field events and the hurdles. In the latter High will probably be the only entry, while in the others the whole work will fall on Connor and Farrell, with the exception of the high jump, in which Barwise is likely to have things his own way. In the hurdles Tech will have Curtis, Huff, Foster and Munch. Porter, Conway, McLeod, McNeill and Beech will be in the weight events; Teeson, Hall, McKinnon, Friebus, Garita, Ober and Childs in the high; McLeod, Alt and Fox in the broad, and Laurason, Friebus and Mangan in the pole vault.

## MINING ENG. SOCIETY.

### Nominations Are Now Open For Officers of the Society.

Nominations are now open for the officers of the Mining Society. The officers to be nominated are as follows: President, vice-president, secretary and treasurer. Two members, one from the 1914 and one from the 1915 class, are to be nominated for the Executive Committee of the society. The nominations should be left at the Cage for either Ralph Wells or L. H. Lehmaier.

Nearly eight hundred attended the Cambridge-M. I. T. '14 game Saturday.

Only two weeks before the Worcester meet.

## ANNUAL BANQUET OF MUSICAL CLUBS

### Officers for Next Year Elected—E. G. Brown and Shedd Entertain.

The Musical Clubs held a very successful banquet in the Dutch room of the Copley Square Hotel last night, at 6.15. Between the courses E. G. Brown, '13, and the Shedd brothers entertained the men with dancing taken from their parts in the Tech Show. P. Shedd amused the men with some tricks with a siphon bottle and a pillow. Preceding the banquet a business meeting was held, at which the following men were elected: President of Musical Clubs, E. C. Taylor, 1914; vice-president, T. L. Chase, 1914; general manager, R. Salisbury, 1914; secretary, H. A. Morrison, 1914; P. C. Taylor was re-elected leader of the Mandolin Club, and Durycia, 1916, manager; A. C. Sherman was re-elected leader of the Banjo Club, with R. W. Moorhouse manager; Tallman, 1914, was chosen to be leader of the Glee Club, with Dalton as manager. It was voted that the representative to the Institute Committee should be chosen by the Executive Committee. The banquet closed with the singing of the "Stein Song," followed by a rousing "We Are Happy" cheer.

## A. E. S. ELECTIONS.

### C. H. Hopkins Chosen President, G. L. MacKay Secretary.

The Architectural Engineering Society held its annual election of officers yesterday afternoon in 42 Pierce, at 2 o'clock. The announcement of the election has been made as follows:

C. H. Hopkins, '14, president; J. H. MacKinnon, vice-president; G. L. MacKay, secretary. Executive Committee: S. A. Smith, '14; U. C. Schiess, '15; R. H. Annin.

## DRILL INSPECTION.

### U. S. Army Officer Will Inspect Regiment Next Wednesday.

The United States Army officer detailed by the government to make the annual inspection of colleges will inspect the Technology Regiment on Wednesday, May 14. There will be but one drill before that time, and Major Cole announces that it is essential that everyone should be present so that mistakes will not be made at the inspection by men who have been absent when the particular instruction was given. No excuses will be granted from either of these drills except for physical disability of a serious nature, and absences for any other cause will have to be settled on the demerit list. The Major hopes that there will be none of these, for he feels that excuses have been given very liberally right through the year. The military work is nearly over and Major Cole pronounces the Regiment highly efficient. He states that a little effort by everybody in putting on the finishing touches will give results that will reflect credit on the Institute. Lack of proper drill grounds limits the kind of work that can be done, but the Major is confident that within proper limits the drill will be up to any standard that can be set.

The exam schedule will soon be out.

## FOUNDRY CLASS MAKES INTERESTING TRIP

### Course II Sophomores Inspect the Blake Foundry, Conducted by Mr. O'Neill.

At 2.15, yesterday afternoon, the members of the section taking foundry were treated to a very interesting trip through the foundries at the Blake & Knowles Company on Third street, Cambridge. Mr. O'Neill, the instructor of the class, accompanied the fellows, and together with Mr. Burnham, of the Blake Company, explained all the details of such a foundry as this, containing all modern appliances.

The foundries at Cambridge are equipped with machines for casting both iron and composition. In the building for casting composition there are two large Schwartz kettle furnaces, and these will hold about 3000 pounds of metal when full. The furnaces are brought to the proper temperature by burning crude oil forced into the kettles under a pressure of about 120 pounds. There are also two machines for heating the ladles, and this is done so that the ladles will not cool the metal when the two come in contact.

The men in all the foundries work during the entire morning in making molds, and when the students arrived the molders were just finishing up in the brass foundry, and the pouring was going on in the building used for pouring iron castings of medium size.

At the plant a large amount of government work is done, and a test piece is always cast onto the regular casting, and this is tested by the government inspector. The specifications which must be filled are that the metal must stand an elongation of 15 per cent., a tensile strength of 30,000 lbs., and an elasticity of 30 per cent. While the students were inspecting the plant the men were cleaning up a 7000-lb. casting for a 40-inch beam air cylinder for the U. S. S. Nevada. The mould for this particular piece of work took two men over two weeks to make, and 9000 lbs. of brass were melted in a Schwartz oil furnace for it.

In the iron foundry, where this furnace is situated, there are also two Whiting cupolas, and the one in use is 72 inches in diameter. These furnaces are first cleaned out in the morning by the men, and at 11 o'clock they are put on fire. The firing goes on until about 4 o'clock, and then the blast is turned on. All loading of the furnace (Continued to Page 3, Col. 2.)

## WEATHER.

Forecast for Boston and vicinity: Wednesday, fair and warmer; moderate variable winds.

## CALENDAR.

Wednesday, May 6, 1912.

2.00—Architectural Society Meeting—42 P.  
3.00—Freshman-Rock Rindge Baseball Game.  
2.00—Foundry Class Trip.  
7.30—Architectural Society Smoker—42 P.

Thursday, May 7, 1913.

1.30—T. C. A. Talk—Union.  
4.00—Naval Architectural Society Meeting—32 P.  
5.00—E. E. Ballots Due—Cage.  
6.30—C. E. Annual Banquet—City Club.

# THE TECH

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WEDNESDAY, MAY 7, 1913

If you considered all the various angles of the question when you decided to come to Tech, if you weighed carefully all the arguments for and against the proposition, you placed a certain positive value on the fact that you would be in Boston,—the heart of the art and culture of the nation,—and this fact should have had considerable weight in forming your final decision, for the educational value of the innumerable exhibitions, concerts, etc., is very great, if one will take the trouble to attend them. They are things which can only be talked of in most other cities of this size.

Just now the Boston public is offered an exhibition of the "Modern Art," popularly known as the cubists, although the cubist pictures constitute only a small part of the whole display. This exhibit is in Copley Hall, almost in the heart of the Tech buildings, and yet we venture to say that less than 5 per cent. of the undergraduates have seen it. They have undoubtedly read of the cubists,—hardly a magazine of recent date has been complete without some reference to this new school of art,—they must have seen them cartooned, even ridiculed, they cannot but have realized that they are the chief cause of dissection among the artists and art critics of today, that they even rival the new tariff as a subject of conversation, yet Tech men as a whole have not had the push to go to see them. Is the greatest sensation in the field of art in a whole generation to lie at Tech's very door and be ignored?

## ARCHITECTURAL SOCIETY

The Architectural Society will meet this afternoon at 2 o'clock, in 42 Pierce. The report of the Entertainment and the Junior Week Committees are expected in full. All other reports should be ready as an attempt will be made to wind up the business for the year.

That hammer cage at the Field has caused a good deal of comment, even outside of the Institute.

## MEMBERS OF TECHNIQUE BOARD ARE SELECTED

Assistant Art Editors Not Yet Chosen — Competition Is Close.

The members of the Technique, 1915. Board were chosen yesterday by the Technique Electoral Committee. Thomas A. D. Fessenden, Chi Phi, was elected Faculty Editor; Gabe B. Hilton, who is to be the Class History Editor, belongs to the Phi Gamma Delta fraternity, and was president of his class during his Freshman year; Henry Leeb, Lambda Phi, who was elected Statistician, has been in the Tech Chorus for two years, as well as on the hockey squad for two years. The following are the other members chosen to serve on the Board: Editor-in-Chief, H. R. Crowell; Business Manager, G. R. Urquhart; Assistant Business Manager, J. M. Livermore; Treasurer, T. F. Spear; Athletic Editor, E. E. Alt; Grind Editor, I. B. McDaniels; Societies' Editor, F. F. Fulton; Art Editor, O. R. Freeman; Photograph Editor, C. M. Runels; Assistant Photograph Editor, H. B. Pickering. No Assistant Art Editors have been selected yet, but the Electoral Committee expects to choose two next Monday as the result of the competition for the position now open.

## ARCHITECTURAL SMOKER.

Former Instructor at Institute Will Speak This Evening.

The Architectural Society will hold a smoker at 7.30 this evening, in Room 42, Pierce. Mr. A. H. Cox, formerly instructor in Architectural Design at the Institute, and now a prominent architect of Boston, will be the speaker of the evening. Mr. Cox was one of the jury at the Intercollegiate Architectural competition in Philadelphia which just recently closed. Technology, University of Pennsylvania, Harvard, Syracuse, Cornell and McGill were the entrants. Technology receiving first mention. Mr. Cox will tell how and why the drawings were judged and marked, and give his impressions of the competition.

The tickets for the smoker are 25 cents, and may be obtained from the secretary of the society.

## ROCK RINDGE GAME.

This afternoon the Freshman baseball team will play the Rock Rindge School at Wellesley. The following men will be in the lineup: Petit, 2nd; Ross, 1st; DeMerritt, 3rd; Foote, rf.; Smart, cf.; Drake, lf.; Tapley, ss.; Murphy, and either Burkhardt or Lovejoy, p.

All the men must be at the Union at 1 o'clock.

## NEW COURSE.

(Continued from Page 1, Col. 1.)  
ments and electric measurements is greatly extended. Much time is devoted to theoretical and applied chemistry. A very considerable amount of study in mechanical and electrical engineering subjects is required and electro-chemistry, pure and applied, and metallurgy, are likewise included. There is provided an exceptional equipment of instruments and apparatus of precision so that a large amount of accurate work can be done in the above lines of study. The course as arranged is such that one completing it should possess a knowledge of physical investigation and methods of dealing with physical problems that will enable him to work intelligently with questions of this character as they may arise in connection with processes in the arts.

The new course is likely to offer excellent opportunities in the commercial and industrial world to those who have the proper training. The

(Continued to Page 4.)

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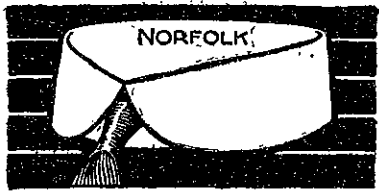
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**OFFICERS NOMINATED  
 BY LYNN HIGH CLUB**

Constitution Formally Accepted  
 at Meeting of Club  
 Yesterday.

The Greater Lynn Club held a meeting yesterday noon in 22 Rogers. Article V of the constitution was discussed and accepted. This was the last article, and the whole constitution has now been formally accepted by the club.

It was decided to only nominate officers at the meeting yesterday and to distribute ballots among all the members of the club, the ballots to be handed in at some future specified date. In this way all the men eligible to membership will have a voice in the election rather than the comparative few who were present yesterday. The officers nominated are as follows: President, Currier, Cowles; vice-president, Stewart, R. Parsons; secretary-treasurer, Peakes, Rooney. The officers and two members form the Executive Committee under the constitution. Two of the following men are to be selected to serve on this committee: T. Parsons, Salomon, Homan and Gagnon.

The Executive Committee will draw up the by-laws as soon as possible and select a date for an annual meeting. This is the youngest of the school clubs at the Institute, and the hearty co-operation of all men from Greater Lynn is requested to aid in making it a success.

**FOUNDRY TRIP.**

(Continued from Page 1, Col. 4.)

is done through an opening in the furnace on the second floor, and when in full operation three men are kept continually busy in just adding iron and lime. When the foundry is in full working order an average of 100,000 lbs. of iron is used daily. The largest iron castings made have been about ten tons, and in order to lift such heavy castings there are large cranes running over all the foundries.

The three foundries, two for iron and one for brass, are in charge of one man, who is known as the production man, and he has six foremen and one clerk directly under his charge. Under the six foremen there are about 250 workingmen, and these are composed of molders, coremakers and laborers.

In the core rooms there are four large ovens heated by crude oil, two of these having steel doors, opened by compressed air. There are a large number of small cores made by women, but they are in a special room, and needed no explanation. Combined with each of the buildings there was a room in which the castings were cleaned. The cleaning apparatus consisted of two large rollers, in which the castings were shaken and also a large number of pneumatic chippers.

After the students had seen all the various types of machinery and processes they left the buildings very thankful to both Mr. O'Neill and Mr. Burnham. The classes that have foundry on Wednesday are to meet at the works at 2.15 today, and those coming on Thursday and Friday are to go on those days next week.

The Freshman baseball team seems to be playing in hard luck. Three cancellations of one game is about the limit.

The Meccas, with a percentage of .667, look to be hopelessly out of the running in the bowling league.

The professional societies are particularly active just now.

The students at the University of Indiana are writing a 23-volume history of the State, under the direction of the history department of the school.

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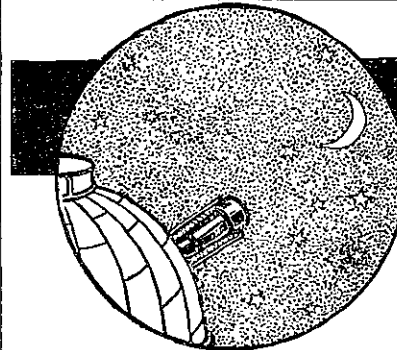
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**FINANCE COMMITTEE**  
**DINNER THURSDAY**  
 Treasurers to Be Guests of "Pa"  
 Coburn at Technology  
 Club.

The members of the Finance Committee are to be the guests of "Pa" Coburn at a dinner to be held at the Technology Club next Thursday night at 6.30 P. M. As this is the final meeting of the year the officers of the committee earnestly urge that every member make an earnest effort to be present. The treasurers are asked to bring with them a graph of their work during the year. These plots are to be made on Phys. Lab. plotting paper and are to include as many details as possible of their work, showing especially the time taken to collect dues.

Treasurers are asked to call at the Cage for their reports as soon as possible.

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**NEW COURSE.**

(Continued from Page 3, Col. 2.)  
 fields open to those who are well prepared are in great laboratories already established, like the Bureau of Standards in Washington, the General Electric laboratories at Schenectady, and those of other electrical companies, automobile factories and other professions.

For this course it is required to begin at the beginning and the whole course must be taken. This will assure to graduates a well-related and fully-rounded education, the details of which will be developed during the next three years. There is in this country no such course today, and nothing comparable in Europe, since the instruction there is not in courses. At Technology there is already the instructing staff competent to take up the new lines of instruction; there are physical, engineering and chemical departments already established on a splendid basis, the equipment is almost unexampled, and the school is ready to furnish what experience shows to be needful in new apparatus. The course is the best four years' course of training that the Faculty has been able to devise for the purpose, and one philosophically developed to meet the great present industrial need of the country.

The meet with the B. A. A. promises some fast races.

The courts at the Field have been resurfaced this Spring and are in fair condition.

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