

THE TECH

VOL. XXX. NO. 130

BOSTON, MASS., WEDNESDAY, APRIL 12, 1911

PRICE TWO CENTS

REVIEWS OF CONGRESS

MEETINGS

Reading of Papers Yesterday Attracted Alumni and Students.

REPORTS OF SECTIONS A AND E

A on Metallurgical Questions—E on Sanitation.

SECTION A

Prof. W. H. Walker, in charge of the exercises in 22 Walker Bldg. introduced A. E. Greene '07 as the first speaker. Mr. Greene stated that steel was not being produced as well as it might be and that the percent of loss in its production could be considerably decreased. His idea of conservation was to control the gases and temperature in a furnace so that the same atmosphere would both oxidize and reduce certain constituents of the ore.

In connection with metallography, A. Sauvieur '89 read a paper which differentiated between the recognition of metals by this subject and by chemistry. This idea was that metallography investigated the approximate composition of metals and alloys and that chemistry investigated the ultimate composition of metals. The final properties were more easily distinguishable by metallography, for two metals may have the same composition but different properties.

Prof. Fay in turn distinguished between physical and chemical tests and metallography. He mentioned several tests made under his supervision and the peculiarities in the metal, when suffering fractures. The chief cause of fracturing being the segregation of ferrite. Prof. Fay illustrated his talk with lantern slides.

Prof. A. H. Gill '84 next spoke on "Coal Combustion Recorders" the instruments recording temperatures occurring in the furnace at certain intervals. The recorders determine the efficiency of the furnace and record thus directly in per cent. This automatic device was perfected by Mr. Moore, a Tech graduate.

An electric furnace for smelting zinc, hitherto thought impossible, was explained lucidly by F. A. J. Fitzgerald '95. He illustrated his talk by diagrams showing now the iron is melted and the zinc sulphide ore is introduced. He laid much stress on the resistance needed to produce temperature sufficient to enable smelting the resistance being made up of a number of sheets of metal.

Fred. P. Royce '90, last introduced, spoke about the work of engineers in the gas industry. He mentioned the fact that the earnings at the beginning were small and that the introduction of electricity made them much smaller, but the production of better engineers and the utilization of the by-products, greatly increased the earnings until today it can compete with electricity. He also gave a discussion of the different retorts used and their value to the commercial world. Finally he stated that there is still a very large field for development and that this industry offers good chances for chemical and mechanical engineers.

SECTION E

The first speaker, Edwin O. Jordan, '88, in dealing with his subject, "Profitable and Fruitless Lines of Endeavor in Public Health Work," emphasized the fact that the dangers from garbage and plumbing toward which most of the attention is at present directed, are greatly overestimated.

Mr. Harry W. Clark, '88, spoke on "The Technical School Man in Public Health Work," the talk being largely historical, embracing the establishment of the Board of Health and its development. Massachusetts was the first state

Continued on Page 2.

1000 AT ALUMNI BANQUET AT SYMPHONY HALL.

Alumni Promise Support if State Appropriates \$100,000 Yearly.

New Summer School Definitely Announced. Hagar Presents Concrete to Build "New Technology."

With Symphony Hall resounding with cheers from all parts of the hall, 1000 Alumni sat down to the great banquet. Coincidentally the Alumni in Buffalo, Chicago, Cincinnati, Denver, Detroit, Hartford Ct. Lawrence, Los Angeles, Minneapolis, N. Y. City, Philadelphia, Pittsburg, Portland, Ore., Providence Rochester, San Francisco, St. Louis, Seattle, Spokane, Springfield, Steelton, Penn., Syracuse, Washington D. C., and Worcester, gathered together for their annual festivities. Each of these associations was in constant telegraphic communication with the Symphony Hall headquarters.

The Menu:—Caviare, Green Turtle Soup, Chicken Halibut, Filet of Beef, Mushroom Sauce, Potatoes, String Beans, Roast Jumbo Squab, Lettuce and Tomato Salad, Fancy Frozen Pudding, Assorted Cake, Coffee, Cigars and Cigarettes and Nuts.

Pres. Maclaurin in the opening address announced a promise from certain alumni of an amount of money necessary to purchase a suitable site, providing the State will pay its share. He also authoritatively announced that an anonymous '93man has presented the Institute with 1000 acres of land three miles from tide water for a permanent summer school for the Civil Engineers and stands ready to equip the camp. The most important gift of the evening was that of Edward M. Hagar '93, President of the Universal Cement Co., of Chicago, who offers all the cement necessary to construct the "New Technology". Pres. Maclaurin's opening address follows in full:

This is an occasion primarily for congratulation to all who have been concerned in the great achievements of the Institute since it was chartered fifty years ago. Beginning in a small and humble way it has made itself a power so that there is scarcely a portion of the world where its influence is not felt. A retrospective mood would seem appropriate to such an occasion, and I hope that some of the speakers will tell us of the struggles of the earlier days and of the wisdom and the courage of those who prepared the ground for the harvest that we are reaping. We owe much to those pioneers and we are unstinted in our feeling of respect and gratitude for their achievements. But after all, when you consider what the Institute has done and the great influence that it has exerted, the most striking thing about it is its youth. And youth naturally looks forward rather than backward. So, even to-night, we are thinking mainly of the New Technology, wherein, under freer conditions we can retain all that is best in the spirit of the good old M. I. T. In planning for this New Technology, we have at least two great advantages over our original founder, Rogers. In the first place, the value of such an institution can no longer be the subject of debate. It is proved beyond dispute. The need of technically trained men in almost every walk of practical life, is becoming daily more apparent, and no far-seeing man doubts that the need and the demand will be stronger in the next generation than it is to-day. So while the Old Technology was backed by a few men of exceptional foresight, the New Technology has behind it the irresistible force of public approbation. Further than this, we have the inestimable advantage of the loyal and enthusiastic support of a strong body of alumni. They can and will help the institution in a thousand different ways. Time will not permit me to give you more

than a few examples of what they are actually doing to-day, but two or three I feel constrained to mention.

It has been recognized for some time that there are certain branches of engineering that can not be properly taught in the heart of a great city, and that a summer camp is a necessary adjunct to a fully equipped school of civil engineering. This camp must be about a thousand acres in area, varied in contour and close to sea, lake and river. It is not easy to find such a place that is available, but an alumnus of the Institute has not only found it after very careful search, but has bought it. He now offers it to the Institute, and stands ready to equip it later if his offer be accepted. This alumnus wishes to remain anonymous and of course his wishes must be respected. I may perhaps say, however, that he is a member of the great class of '93. This generous offer will be considered by the Corporation at its next meeting.

At that meeting there will be other offers to consider. One of the most active alumni associations is the Northwestern with its headquarters in Chicago. At a meeting there recently to discuss what should be done when the site problem is settled, it was suggested that Chicago should *opt*, while Boston and Massachusetts *pondered*; and so another member of the class of '93, President of the Universal Portland Cement Company, announced that he would supply freely all the cement needed in the construction of the new buildings. That is an extremely generous offer, which the Corporation will doubtless accept with alacrity, especially when it realizes the possibility of building the whole Institute in reinforced concrete.

Now, as to the site problem, after all, there are limitations even to Portland cement, if you have no land on which to found your buildings, and so the question of a suitable site has been a matter of careful investigation for some time. To many, the problem seems very simple indeed. If we may judge from the offers that have been made with regard to this matter, the state of Massachusetts consists almost wholly of sites that are perfectly ideal for the purposes of this Institute. Most of these offers have been of a business character, requiring a not inconsiderable monetary consideration, but there have been exceptions notably in the case of Springfield. There a site is freely offered that is splendid in nearly all respects save one—it is not near enough to the Hub. I think that His Honor, the Mayor, will agree that Boston is today even as it was in Roger's time, the ideal place for such an institution. However, even the most ideal site in the great city of Boston is not very interesting to us unless we have the money to buy it. And we have none that we can use for such a purpose. When describing the situation to a committee of the legislature I said that I knew something of the temper of the alumni, and something also of the attitude of public spirited citizens, who, although not alumni, believe heartily in the Institute, I added that knowing this, I felt confident that enough money could be raised during the next decade to provide a new site and new buildings, provided that the State would help the Institute over the difficult period of transition by undertaking a larger share of the burden of the running expenses than it has borne in the past. Since then, I observe that the House Committee

Continued on Page 3.

CLOSING CELEBRATION

OF CONGRESS TO-NIGHT

Undergraduate Banquet at the Union Will be Well Attended

PRESIDENT WILL BE THERE

Electrical Engineering Society Has F. J. Sprague to Speak.

As a fitting final to successful Congress of Technology a grand student celebration will be held in the Union this evening at 6.30, the celebration being in the form of a joint societies dinner under the auspices of the Electrical Engineering Society. Already the sale of tickets indicates an unusually large crowd, and as the sale of tickets is positively limited to the capacity of the dining room, YOU should get your ticket at once from Charlie at the Cage.

An imposing list of speakers has been secured by the program committee of the Electrical Engineering Society, the special guest of the evening being Mr. Frank J. Sprague of New York City. The other speakers include President Maclaurin, Dean Burton and Bursar Rand.

In order that the members of the various courses present may be seated near each other, thus enabling the societies to give organized cheers and songs, the committee has arranged a definite seating schedule for the various societies. Seated at the head of the various tables will be the presidents of the professional societies.

Seated at the head table will be: L. P. Ferris '11, president of the electrical engineering society, toastmaster; Mr. Frank J. Sprague of New York City; President Maclaurin of the Institute; Dean Burton of the faculty; Bursar Rand; Dr. A. A. Noyes, former president of the Institute; Professor D. C. Jackson, head of the department of electrical engineering; D. R. Stevens '11, president of the senior class; O. B. Denison '11, chairman of the committee of arrangements; H. Fryer '11 treasurer of the E. E. Society; R. D. Huxley '11, secretary of the E. E. society; D. P. Gaillard '11 and L. T. Hemmenway '11, members of the committee in charge.

Mr. Sprague has taken as his subject "The Romance and Realities of Engineering". The speaker is one of the most prominent consulting engineers of the country and is eminently well fitted to give advice to budding engineers of all sorts, be they civil, mining, electrical or what not. This excellent title is sure to be well presented by the speaker.

In order that the affair may be made a truly student affair, celebrating as it does the semi-centennial of the granting of the institute's charter, President Maclaurin, Dean Burton and Bursar Rand have also been invited to speak. These men are all too well-known to everyone to require any introduction.

Mr. Colton, the genial steward of the Technology Union, is arranging an elaborate and tasty set of eatables, warranted to be sufficiently delectable for the most jaded epicure (whatever that may mean!) He has several surprises in store, in the line of reasonable dishes.

Music will be furnished during the evening by the Technology orchestra of eighteen pieces, led by Rudolph Eksbergian '12. If you have not heard the orchestra this year yet, it is high time you did for they have been improving rapidly under the direction of Mr. Eksbergian and are now able to give a most creditable concert.

As has been noted in these columns several times before, the price of a ticket is fifty cents, which admits to all. There are absolutely no extra charges, and you can come in any time after the show starts and stay as late as you want. If you are a "live" one, you will go right to the Cage NOW and get one of those 47 tickets which have not been sold yet.

"A word to the wise. etc."

THE TECH

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One More Week The Semi-Centennial Celebration is over, and we have just one more week for steady work before the Junior Week holidays.

The undergraduates entered well into the spirit of the past two days and the majority took advantage of the exceptional opportunities open to them in the lectures yesterday. After such a departure from the regular routine work of the Institute year, there is a tendency to prolong the holiday spirit, to be over-lenient with ones self in the way of good times. Let us remember that the coming week is as much a week for steady work as the week before the exams., and make this week the most valuable week of conscientious work so far this year.

Still Trouble The House Committee reports another theft from the Union. Realizing the apparent futility of remonstrance, and the absolutely impervious shamelessness of those who, in this and other ways, refuse to respect the laws of propriety while in the Union, the Committee now promises to deal summary punishment to any and all offenders.

At other colleges, it is customary to charge a fee to all students in the college for the support of its union or similar gathering place. That none is charged here should make students a bit more considerate of their opportunities yet in some cases it would seem that ultimate expulsion is the only resort to insure a appreciation of the union. THE TECH hopes that means need not be resorted to.

In the matter of books and magazines, the man who in the past has furnished the covers has kept them in repair without charge, but the amount of work necessary causes him to say that henceforth, it will be necessary to make a charges. In view of this fact, the binders either must be better cared for by the students or they lose the privilege of using the magazines altogether. Similarly, the use of the Union note-paper for mathematics calculations and such uses will shortly result in the necessity for each student buying writing paper instead of having the Institute furnish it. In a word, it seems that unless the students realize that they must be careful and that they must see that others are careful, the privileges of the Union will be sadly curtailed, which would be a deplorable condition. Let us hope that more care will be shown in the future.

REVIEW OF CONGRESS MEETINGS CONTINUED

to carry on such work.
"The Present Status of Water Purification in the United States and the part that M. I. T. has played", was the next paper, by Mr. George C. Whipple, '89, Consulting Engineer. Statistics figured largely in his treatment, but the keynote was the increased demand for more and purer water with increase in population. Mr. Wm. S. Johnson, '89, Sanitary and Hydraulic Engineer of Boston, spoke on "The Pollution of Streams by Manufacturing Wastes". He brought out the large number and complexity of the problems arising with the public demand for clean streams, and showed how it was very often impossible for manufacturers to divert their waste effluents to the existing sewers.

Mr. H. C. Lythgoe, '96, proceeded on the subject of "The Food Inspection Chemist and his Work". The demand for such men has recently greatly increase, and much of their work is in remedying the idiosyncrasies of the Pure Food Laws. A very novel talk was that by Professor Severance Burrage, '92, of Purdue, entitled "The Life Saving Corps of the Technical School." His talk was supplemented by a printed outline and in general was on the conservation of Human Life through Life Saving Corps.

"Factory Sanitation and Efficiency," by C. E. A. Winslow, '98, dealt with the physical and mental conditions of factory employees as influenced by the environment in which they worked.

Prof. Earle B. Phelps, '99, gave a Review of the Work of the Sanitary Research Laboratory and Sewage Experiment Station of M. I. T. This department the first of its kind in existence, is maintained largely by the generosity of an anonymous donor, and is now in its ninth year of useful work.

The last paper was read by Prof. Simeon C. Keith, Jr., '93, of the faculty on "Bacteria and Decomposition", starting with the early theories and briefly covering the ground to the present day.

COMMUNICATION

The TECHNIQUE BOARD 1912, wishes to extend its congratulations to THE TECH for the splendid special issue published yesterday and sincerely hopes that it met with the financial success that it so well merited.

H. E. Kebbon,
Editor-in-Chief,
TECHNIQUE.

VALUABLE ADDITION TO COURSE XIII

A very extensive and important addition to Course XIII has been made in the form of a collection of about 4 hundred maps of the Coast and Geodetic Survey's preparation. These maps include the whole of the Atlantic coast and the greater part of the Pacific. Congressman Paters was chiefly instrumental in the securing of these maps.

CALENDAR

Send all notices for calendar to E. W. Taft 1913 Institute Committee at the Cage.

Thursday, April 13.

4.15—1913 and 1914 Cross Country Practice—Field.
4.15—1914 Baseball Practice—Field.
5.00—Technique Board Mrg.—Union.
4.15—Combined Musical Clubs Practice—H. H.

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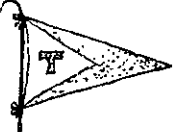
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NOTICE

Lost:—Seats O 1—3 for Thursday afternoon for Tech Show were lost in transit. Return to Show office or the Cage.

SPRING CONCERT

Applications will be filed according as the full amount is paid. No reservations will be held after Wednesday. (130—2f).

WARNING

The persons holding seats P 13—18 for the Winter Concert had better consult with the management. (130—1f).

Continued from Page 1.

of Ways and Means has proposed to make the continuance of State aid conditional on the raising of a million dollars. I have therefore been trying the strength of the forces behind me.

I have not received promises of the million yet, but I have received absolute assurances from certain of the alumni that they will contribute a very substantial proportion of the sum needed to purchase a suitable site, if only the State will take care of that part of the running expenses not already provided for. Prominent amongst these generous friends are Alumni from outside the State of Massachusetts. As an example of their spirit of the conditions that they attach to their promises of support I may say that one of these alumni expresses himself in effect as follows:—"I have no connection with Massachusetts except the ties of my association with the Institute. But, although I am not a Massachusetts man, I am and always will be a Tech man. I know its needs, I see something of its possibilities, and I realize that it ought to move and to give itself room for free and natural growth. I will help on these conditions:—First: that site be secured that in location and size satisfies my ideas as to the future development of the Institute—(and I may add that his ideas are large in proportion to his generosity).

Second: that other friends of the Institute provide funds to complete the purchase of such a site and to erect thereon suitable buildings.

Third: and most important of all, that during the transition, the educational standards of the Institute be maintained at their present high level.

The Institute holds its present proud position by maintaining the highest standards and we can permit nothing to lower them. To maintain these standards, the running expenses must be met and any one can see that the load of millions that this re-building will impose upon our friends will tend to divert funds that would otherwise be given for current expenditure. If, then, we are to take advantage of the generous offers to which I have referred and are to launch out on a policy of development the only alternative to increased state aid during the period of transition is an increase of fees. This increase we hesitate to make, as our fees are relatively high already and any addition would exclude a large number of the sons of wage-earners—a class that supplies one-third of our students and many of the very best that we have. If, on the other hand, the legislature as a whole, acts in accordance with the resolutions of the Senate and in accordance with recommendations of the committee on Education and on Ways and Means, all of which after most careful investigation, have approved the granting of this state aid, then we shall certainly go ahead immediately.

As to the site itself, I may say that if my judgement be worth anything, the problem of selection is practically solved. It is reduced to the simple problem of selecting one out of three sites. It can only be solved definitely when we are in a position to get down to actual business and make a definite offer. Then, and then only shall we know exactly where we are in the important matter of price—an element that must be a factor and that may easily be a determining factor in making the selection. I need only add that all three sites are within easy distance of Rogers Steps.

So much of alumni support; but the interest in Tech is certainly not confined to the alumni. Our campaign for increased state aid has brought us evidence of good-will from unexpected quarters everywhere and proved beyond dispute that there is a tremendous force of public sentiment behind the Institute of Technology. And need I remind you that, apart from the public at large, there is at least one who cares for the Tech that Rogers founded with a devotion that no alumnus can ever match. As the latest proof of her constant thoughtfulness, I may mention that Mrs. Rogers asked yesterday to have the privilege of subscribing \$500 towards the expenses of the Congress of Technology.

Mr. Louis K. Rourke then read several telegrams of congratulation from various Alumni Associations to their Alma Mater on the occasion of its Semi-Centennial Celebrations. Among those represented, New York, Puget Sound, California, Springfield, Rhode Island, Northern Ohio, Rochester, Cincinnati, Northwestern Association, St. Louis, Oregon, Tech Club of Minnesota, Spokane, Wash. Merrimac Valley Club, Tech Club of New York, Buffalo Tech Club, Pittsburg, Springfield Tech Club, Bigley, Rocky Mountains Tech Club.

Two of the most important telegrams follow in full:—

To Pres. R. C. Maclaurin:—
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OF THE SHOW

Dress Rehearsal Showed Great Promise for Successful Production

By E. B. Moore.

The second speaker was Lt. Gov. Frothingham, who spoke of his work in securing an annual appropriation for Technology during his term in the House. He promises to advise the Governor along with Mayor Fitzgerald provided the former be in any doubt concerning the appropriation bill now before the Legislature. He enumerated the great engineering feats about the Hub carried out by M. I. T. Alumni.

Pres. Maclaurin next introduced Mayor Fitzgerald. The latter concurred with Lt. Gov. Frothingham by saying that he should do whatever possible to secure the appropriation of \$100,000 annually for ten years recently asked for of the legislature. He outlined the far-famed ability of all Tech men and praised his Superintendent of Streets, Mr. Louis K. Rourke, a Tech Alumni to the highest degree and offered President Taft's name as a further authority for his statement.

The remainder of the speakers were Charles H. Coffin of New York, President of the General Electric Co; Abbott Lawrence Lowell, Pres. of Harvard University; George S. Smith, Pres. Boston Chamber of Commerce; Chas. W. Eliot, Pres. Emeritus Harvard University; Professor of Chemistry M. I. T. 1865; Col. Thomas L. Livermore, member Executive Committee M. I. T.; Prof. Wm. T. Sedgwick, Head of Department of Biology M. I. T.

Enthusiasm continued high and the classes vied with each other in cheering until the close of Prof. Sedgwick's speech about midnight.

BROOKLINE HIGH CLUB MEETING

Last Saturday evening the Brookline High School Club of Tech gave an informal reception to the seniors at the school who are planning to enter the Institute. Pres. L. C. Cooley 1911, introduced Prof. Sedgwick, who had inconvenienced himself to be present a few minutes. He spoke briefly of the relations of Tech to its graduates, and invited the high school men to be present at the exercises of the Congress.

Registrar Humphreys and Headmaster Hitchcock of the High School also spoke of the benefits of Tech. The evening closed by singing a few Tech songs.

TECHNIQUE NEWS

Rush tickets are now ready at the Union every day between 1 and 2 o'clock. These must be obtained before you can become the possessor of TECHNIQUE. Yesterday the Alumni were given an opportunity to sign up for books with the result that the edition is becoming exhausted, so that all that have waited until the eleventh hour are urged to sign up immediately for all should have a TECH-

"Frenzied French"—Tech Show, 1911, which will be presented at the Shubert theater, Thursday and Friday afternoons April 20 and 21, held its first dress rehearsal Sunday afternoon at the Shubert Theater. The book is by Edwin C. Vose 1911 of West Newtonville and Wellesley J. Seligman 1912, Brookline as co-authors.

An all star performance was the opinion of the experts who witnessed the rehearsal. The play is a musical comedy in three acts with music and a plot that would do credit to professional work. The lines are snappy, not too numerous and are well executed. The songs are lively and "hits" enough to please the most critical. Stanley H. Hodgman '12, who takes the leading part of "Richard R. Wells"—the hero known as Dick—has a difficult role and handles it with much satisfaction. As the host of a house party given on Long Island Sound he does not make himself quite at home; but livens to the situation in the second act.

Louis de Florez '11 as the Chauffeur and Edmund C. Brown '03 as the Butler are headliners throughout the entire piece. John H. Hastings Jr. '12 as "Philip Van Veen" and Kenneth Faunce '11 in the part of "Harry Haven"—a grind—execute some of the best acting of the play. Hastings is perfectly at ease with his part and has a voice of an unusual quality.

The music of "Frenzied French" is exceedingly catchy. The best selections are concentrated in the last act, in which Hastings and Royal W. Weatherald '14 make a decided hit with "Every Juliet Has a Romeo"—music written by Scott Putman '11 and words by F. W. Baker '12.

The entire production is exceedingly well staged. The costumes are elaborate and of a high quality in keeping with the chorus itself.

The first public performance will be given at Worcester Saturday evening, April 15. Other bookings in addition to the Boston dates are: Malden, Wednesday evening, April 26. There will be no entertainment given this year at Providence or Northampton.

but only those who get in first will be able to come around Tuesday, April 18th and have the good fortune to tuck a book under their arm. The biggest rush ever planned at the Institute will take place on the above mentioned day so make preparations now to enter the scrimmage at 1.20 sharp and get a leather covered Technique with President Maclaurin's signature adorning the title page.

MAJESTIC Evenings at 8
Mats. Wed.
and Sat.

Mrs. Leslie Carter

In

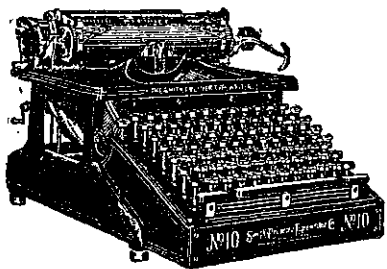
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nology.

A Congress of Technology in celebra-
tion of the Fiftieth Anniversary of the
granting of the Institute's charter will
be held in the buildings of the Institute
and will be opened on Monday, April
10th, at 2.30 and continued on Tuesday
from 11 to 1 and from 2.30 to 4.30
The public is invited.

**SECOND YEAR ENGLISH LITERA-
TURE**

Courses III, VI, VIII, X, XII, XIV.
Professor Bates' Section will have no
meeting, 9-10, on Wednesday, April 12.

Post: In Library Wednesday a note
book containing Organic Chemistry notes
Finder will kindly leave at Cage for
F. W. Barker Jr.

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9:00 daily

DRAWING DEPARTMENT,

Week of April 10th.

Descriptive Geometry.

Isometric—2 drawings (4 hours).

Mechanical Drawing.

Hand-rail Stud (time left after the
isometric.)

NOTICE

Base Ball

Catcher wanted for *The Tech* Base Ball
team for game with Technique on April 19.
Good salary and a mask provided. See
Harold in the lower office. Bring refer-
ences.

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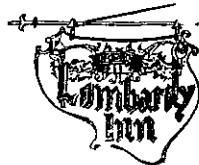
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