MAXIMUM POINTS TO BE REDUCED TO TEN

New System Proposed Is Similar To Original With Few Changes.

At the meeting of the Institute Committee yesterday, the Point System Committee presented a revised list of points calling for a 10-point system as an alternative for the previous list of 13 points. It was decided to lay the report on the table until the next meeting and to have the complete list as revised published in The Tech. The sentiment of the Institute Committee was in favor of the 10-point system.

The Finance Committee reported the adoption of a uniform voucher check for the use of the different activities. The Red Cross Committee presented its report. Both reports were accepted.

The 1915 Advisory Committee reported the results of their work and made several suggestions as to future committees. It was proposed to have the members elected by the Executive Board of the Sophomore Class and that the appointments should be ratified by the Institute Committee. The Committee also suggested that

(Continued On Page Four)

TRACK MEN TO REST

No Work Over Holidays—Freshman Meets Arranged.

The track men are being given a complete rest-up over the holidays. Coach Kanaly says he wants the men to forget all about track during the vacation, but to come back with redoubled energy and enthusiasm to put into the work. The rest-up really began last week as there was no out-door work Tuesday on account of the condition of the track and no in-door work because the basket-ball team had the gym floor.

After the holidays the freshman team will arrange two meets. One will probably be with Lowell. Track meets are usually arranged in a linear fashion. This year, however, the track men have been given a complete rest-up on account of the condition of the field and no in-door work because the basket-ball team had the gym floor.

PORTFOLIO COMMITTEE

The result of the elections to the Portfolio Committee of the Senior Class are as follows: C. N. Buren, 24; C. W. Wood, 23; W. B. Spencer, 29.

SHOW POSTERS

Preliminary sketches for show posters may be had at the Cage.

BIG PREPARATIONS FOR JUNIOR DINNER

Event Will Take Place On The First Tuesday After School Reopens.

The 1916 class dinner which is to be held on Tuesday evening, January 5th, will be unique among such events. The committee has worked on the details with care and a lively time is guaranteed. A feast of delight is in the making and after this is disposed of, a show will be thrown at the Union. Professor Hayward and Mr. Blockstein will add to the interest of the event. At the conclusion of this, a discussion of the relative values of the two leaves which has never before been seen or heard of at the Institute, has been arranged. A full-colored "movie" show, completely detailed, will be shown by a few men of the Institute has seen the pictures of the last Technical rush and it will be very appropriate to have this show at the dinner. The real is being traced now and until the booking office is unsuccessful, the show will be reviewed by the Union. Other film subjects are to be chosen during the Christmas recess and some suggestions received from members of the class are to be considered. It is not definitely known whether this includes films passed by the National Board of Censorship or not. The total number provided for is 200 plates, and as officers of the class and members of the different courses are readily disposing of their tickets, a crowd is assured. The men who are seeing the good time through are W. J. Farthing, T. F. McSweeney and R. H. White.

MUSIC FOR LYRICS

Meeting Of Men Interested Held Last Monday.

A meeting of the men who are interested in writing music for the Tech Chorus will be held last Monday afternoon when over twenty-five were present. Most of those who wrote music for last year's program are back and they will try again this year. Copies of lyrics were given out and suggestions were made by R. B. McDaniel, '16, author of the music for the Tech Chorus, and also by the stage manager, C. A. Cole-

MAN (Continued)

WIRELESS SOCIETY

The second meeting of the year of the Wireless Society will be held to-day at 4.30 p.m. in 11, Engineering B. It has been planned to have the meetings during the coming season take the form of talks on the principles involved and the uses and advantages of the different types of instruments. The speaker at today's meeting will discuss the different de-

ectors in use at the present time, laying particular importance on the theories applied and the advantages and disadvantages of their use. Among the most important of these instruments to be discussed are the Collier, Magnetic and Electric Detectors, the Thermo Detector and the Fleming Valve. It is hoped that men interested in this study will attend.

SOUTHERN CLUB PARTY

Planned To Take Place During Christmas Vacation.

The Southern Club has planned to give a Christmas party during the holidays. Quite a number of the Southern boys and girls will spend their vacation in Boston, and if a suf-

ficient number of men are interested, a pleasant evening can be planned. Southerners in Technology are wel-

come. Those that eare to go will please notify John C. Turner, 1205 Commonwealth avenue. Telephone Bright 2210.

M. I. T. CO-OP. OFFICERS

The following are the present of-

icers of the M. I. T. Co-operative So-

ciety:

President, Francis P. Fulton, '15.
Vice-President, McCeney-Werlich, '15.
Secretary, Steven R. Berkowitz, '16.
Treasurer, Andrew D. MacLachlan, '16.

The directors of the society consist of the above officers and the follow-

ing:

The President of the Institute, Ex-

Officio.

Clare W. Lacy, '15.
Samuel G. Fox, Jr., '16.
Lilwood T. Noyes, '17.
Paul G. Woodward, '17.

CALENDAR

Wednesday, December 23, 1914.
4.30 P. M.—Wireless Society Meet-

ing 11, Engineering B.

Thursday, December 24, 1914.
Christmas recess begins.
To the Editor of The Tech:

it gives me great pleasure to give a full explanation of the unnecessary render attributed to the committee in charge of the C. E. trip Sunday morning, as requested in Monday's Tech.

First I want to say that the officers of the Society are very sorry that so many missed the car, as it was one of the most interesting trips ever conducted by the Society, but the fact that some did not know the time the car left cannot be blamed on the C. E. Society, its committee, nor its officers.

At 10.45 A. M. Saturday morning a telegram was received saying the bridge was to be slid in at 10 A. M. instead of 7 A. M. as we were formerly told. That meant that the car would have to leave at 6.30 at the latest if we wished to get rolled in. The announcement was made to that effect in Foundations, the only class the Seniors have on next Tuesday.

All those who were left at Copley Square may receive their money back from the undersigned. I wish to state that the Society is very sorry that so many missed the car, and we hope some earn-

To the Editor of The Tech:

it is quite unnecessary to say, in regard to the occurrence of these lectures mentioned by your recent communistic, that such acts are disgraceful as well as ungentlemanly; since, however, the protest against such behavior are all little avail, it might be well to take a more ener-

respect for the committee, and were certainly not unreasonable considering the many de-

mands on the student's pocketbook at this time, it still seems that Tech men might have averaged more than a fiver apiece for the relief of our stricken fellow-mortals across the wa-

ter. Let us hope the next Red Cross may two months hence see the average raised to a more respectable figure.

As yet only the Junior and Senior lists of paid-up class members are posted in the Union, and even these lists are not from perfect, containing, for example, the names of many men who have left school. Ample time has elapsed for the other classes to have made out their lists, and for all to have been corrected according to the current catalogue.

THE TECH

 COMMUNICATION

THAR'S two places what you can always find sympathy — in the dictionary an' in a pipe o' VELVET.

For there's solid solace in that aged-in-the-wood mellowness which changes Kentucky's Burley de Luxe into VELVET, The Smoothest Smoking Tobacco. 12c tins and 5c metal-lined bags.

THE TECH, BOSTON, MASS., WEDNESDAY, DECEMBER 23, 1914.

IN CHARGE OF THIS ISSUE.

Editor: E. P. Hewins, '16.
Associate: T. J. Fairfield, '16.

The Tech takes pleasure in announcing the following elections to the News Staff:

P. A. Birmingham, '18.
D. M. Bull, '17.
J. W. Damon, '18.
K. M. Lane, '17.
R. H. Thrasher, '18.
A. H. Wessel, '17.

And to the Business Staff:

F. H. Wells, '18.

Although the donations to the Red Cross fund were satisfactory to the committee, and were certainly not unreasonable considering the many demands on the student's pocketbook at this time, it still seems that Tech men might have averaged more than a fiver apiece for the relief of our stricken fellow-mortals across the water. Let us hope the next Red Cross may two months hence see the average raised to a more respectable figure.

As yet only the Junior and Senior lists of paid-up class members are posted in the Union, and even these lists are not from perfect, containing, for example, the names of many men who have left school. Ample time has elapsed for the other classes to have made out their lists, and for all to have been corrected according to the current catalogue.

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Fine English and French Silk Half Hose, in plain and fancy effects. Per pair $2.50 to $5.00

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Special Lot of Men's Silk Neglige Shirts

in all white and white grounds with colored stripes. Each................. $3.50
TALK TO ELECTRICALS ON REPORT WRITING

Mr. Blood of Stone & Webster Speaks Of The Habit Of Observation.

At the meeting of the Electrical Engineering Society last night in the Union, about 50 men listened to a talk by Mr. Blood on Examinations and Reports. Mr. Blood is a graduate of the Institute in the class of 1888, and is employed by the Stone & Webster Engineering Corporation to look up plants to consider their value. In this line he has had a very wide experience, and has traveled extensively in this country.

Mr. Blood began his talk by giving the men an examination he had uncovered an exhibt of common mechanical and household goods on a black-board for thirty seconds; and then asked the men to tell the dimensions of the board, the material and color of the mount; and to state whether the mount bore any distinguishing marks, and if so, what, and to give a list of the objects on the mount. The examinations were handed in at the close of the speech. Out of twenty-five objects on the mount, the man who saw the most saw sixteen; the two next were thirteen each. Mr. Blood then said that apt men are not good observers but that the habit of observation improves greatly with practice. He asked how many know how many steps there are on a passenger coach; or whether the even numbers are on the south or north side of Boylston Street. Such trivial matters are often of the greatest importance in law-suits, he said, and gave a number of instances. In one case an electric light company was charged with corroding the water pipes by electrolysis by an alternating current; but in the course of the investigation it was shown that the corrosion was started by little pores on the inside of the pipe, so that the trouble was due really to defects in the manufacture. Again, in a case a inspector saw that the flames had gone up the wall to an electric light switch, and concluded that the fire had started there; but Mr. Blood showed that the fire had started three feet below. He said that ninety-nine people out of a hundred think that they see a ball of fire as a lightning discharge, but ninety-nine people out of a hundred think that they see a ball of fire as a lightning discharge, and when he started out he carried a book with the left hand page for calculations and the right hand side for estimations. The education at the Institute will not make men experts, experts comes only from experience, and they must expect to work hard. The ability to co-ordinate information is less readily than the habit of correct observation. He spoke very highly of the course in Precision of Measurements and said that few men not technical graduates have any appreci-
The Tech Union Dining Room

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Opp. N. E. Conservatory of Music.

POINT SYSTEM

(Continued from Page One)

the appointments be made in December rather than in May as was done last year. This was found necessary in the case of the football manager, for the schedule has to be made out during the winter. If the manager is not elected until May he does not have a chance to arrange a satisfactory schedule. The matter was referred to the committee on changing the Undergraduate Constitution consisting of the four class presidents.

The following members were absent: H. L. Leeb, '15; H. P. Sabin, '15; T. F. Spira, '16; and O. C. Lorenz, '18.

The Point System as revised is here given:

Class A.—10 Points.

Pres. Senior Class

General Manager Tech Show

Editor-in-Chief Technique

General Manager The Tech

Pres. M. I. T. A. A. (if Captain of Track Team)

Manager Track Team (if member of Advisory Council)

General Manager Musical Clubs

Class B.—9 Points.

President Junior Class

Editor-in-Chief The Tech

Managing Editor The Tech

Manager The Track Team

Business Manager Technique

Business Manager Tech Show

Advertising Manager Tech Show

Stage Manager Tech Show

Treasurer Tech Show

Managing Editor Technology Monthly

Class C.—8 Points.

Chairman Union House Committee

Business Manager Technology Monthly

Editor-in-Chief Technology Monthly

Advertising Manager The Tech

Circulation Manager The Tech Technique Monthly

Assistant General Manager Musical Clubs

Stage Director Tech Show

Secretary-Treasurer Institute Committee

Class D.—7 Points.

Feature Editor Technology Monthly

Press Secretary Students' Union

Editor-in-Chief The Tech

Managing Editor The Tech

Manager The Track Team

Business Manager Tech Show

Assistant Stage Manager Tech Show (second term)

Executive Committee of Institute

Class E.—6 Points.

Senior Portfolio Committee

Business Manager Technology Monthly

Circulation Manager Technology Monthly

Treasurer Technology Monthly

President Freshman Class

Captain Track Team

President M. I. T. A. A.

President Professional Societies

Manager Hockey Team

Manager Basketball Team

Assistants News Board The Tech

Business Board The Tech

(Continued on Page Five)

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Tuxedo has a deliciously mild, fragrant aroma that is pleasant to all. It is the only tobacco you can smoke in a room full of lace curtains without leaving even a trace of odor.

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Cross-Country Team Elects Captain

Henry S. Benson Of Dedham Chosen To Lead The Team Of 1915.

At the meeting of the cross-country team Monday, Henry S. Benson of Dedham was elected captain for 1915. Benson has been a member of the team for three years, doing his best running as a freshman when he took sixth in the New England intercollegiates and when he won the freshman intercollegiates at Andover with a lead of three hundred yards over Humphreys of Penn.

Benson last year was the best runner on the track team, running consistently around the 4:30 mark, and taking third in that event at the New England intercollegiates.

His work this fall has not been quite up to his usual standard owing to the fact that he has been carrying a heavy schedule, but he ran a strong race at New Haven, finishing eighteenth in the big intercollegiate run.

With Captain Cook, the only man to graduate, Benson will have a squad of veterans out, and should produce the strongest team which has ever represented the institute.

STATISTICAL BLANKS

The Static Blank for Techni- niques 1916 were due at the Chest yesterday, but owing to the small number handed in, the time has been extended until after the Christmas vacation.

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INSTITUTE WILL OCCUPY NEW
BUILDINGS IN NEAR FUTURE
Efficiency The Keynote Of The Whole Construction—

WILLIAM BOSWORTH
THE ARCHITECT
Designer Of New Technology
Has Had Wide Training
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The admirable plan of the New

Technology will be moved in the near future to its new home in Cam-
bridge on the Charles River. The buildings are rapidly taking shape and
the enormous project is now assuming definite results, due largely to the
systematic manner with which the whole affair has been treated. From the
moment when the new quarters were definitely decided upon, everything has
been solved from an efficient standpoint.

In the first place, efficiency is shown in the method adopted for the ar-
rangeinent of the buildings in one continuous group. The advantage of this
(Continued on Page Two)

(Continued on Page Three)
The Original
TECH BARBER SHOP
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Old Established Dining Room
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PRESIDENT MACLAURIN
TECHNOLOGY'S LEADER

The Man Who Has Made The Visions Of "The White City" A Reality

President Richard Cockburn MacLaurin, under whose guidance Technology has found its way to its present position of security, recently completed the sixth year of his administration as the head of the Institute. Born in Edinburgh in 1870, his early boyhood was spent in New Zealand, returning to England in time to complete his preparatory education for the University of Cambridge, which he entered in 1892, holding a foundation scholarship in St. John's College. Dr. MacLaurin took both the Bachelor's and Master's degrees in Arts from Cambridge, the latter being the most advanced mathematics. Upon his graduation he received the Smith Prize for excellence and was elected a Fellow of St. John's College. During 1896 and 1897, Dr. MacLaurin spent ten months visiting educational institutions on this side of the Atlantic, the greater part of the time being given to a study of McGill, the University of Toronto, and Leland Stanford University. Upon his return to England he re-entered Cambridge, this time to study law, and was awarded the McMahon Law Studentship, the most valuable of its kind in the University. In 1898 Dr. MacLaurin was appointed Professor of Mathematics in the University of New Zealand and took an active part in the organization of technical education in the colony. In 1903 he was elected Dean of the Faculty of Law and held this office four years, until in 1907 he was invited to take the chair of Mathematical Physics in Columbia University, in New York. A year later Columbia made him the head of the Department of Physics. In 1904 he was honored by Cambridge with the degree of Doctor of Laws for his many achievements in the judicial field.

On November 23, 1908, Dr. MacLaurin was appointed by the Corporation of Technology to be President, and from that day he has been steadily working for the Institute with that success which has been so often set (Continued on Page Three)

INSTITUTE WILL OCCUPY NEW BUILDINGS IN NEAR FUTURE


WILLIAM BOSWORTH
THE ARCHITECT

Efficiency The Keynote Of The Whole Construction

The admirable plan of the New Technology is a striking tribute to the architectural genius of William Welles Bosworth, of New York, its chief architect. Mr. Bosworth studied at the Institute for three years, being affiliated with the Class of 1889. After leaving Technology, he entered the office of H. H. Richardson, where he remained for a year and a half. He left this office to become associated with Mr. Olmsted in landscape work in California. Later he was on the staff of the "American Architect" and made extensive studies of European architecture.

In 1886, he went abroad to supplement his American architectural training with study in the best schools in Europe. He worked in London under Alma Tadema, and then went to Paris, to the ateliers of Godefroy Freynet, Gaston Reden, and Chaummetiche, now the architect of Versailles and the Trianon. He visited Holland and Rome before his return to America.

Mr. Bosworth was next appointed Resident Architect of the Pan-American Exposition, on the plans of which he had already spent some time. He also designed several buildings for the St. Louis Exposition. After going abroad again, this time to Spain, Mr. Bosworth opened an office for himself in New York.

For several years Mr. Bosworth taught practical Architecture, residences, and other buildings for private owners; the famous Rockefeller gardens at Pocantico Hills are typical examples. It was during this period that he gained his great reputation for the power of getting fine results by simple means.

Recently, he has been engaged on a magnificent thirty story white granite structure in New York, which is to be the headquarters of The New Technology Company, Inc. This building will be recognized as characteristic of Mr. Bosworth's evident dislike of complication and ornateness, and his simple method of using ornamentation except with some definite purpose in mind.
lies in the convenience to students and the saving of time and steps by bringing the classrooms nearer to the dormitories. This grouping also lends itself admirably to the expansion and development of the different departments. The growth of these is independent one of another and no one can forecast what the future will bring forth; for example the small departments of twenty-five years ago now demand large spaces and elaborate equipment.

"25,000 piles were used"

The alumni of Technology are also in evidence in the actual work of construction. A great deal of grading was necessary, which has been under the care of John T. Scully, '90, the head of a Cambridge corporation. The buildings are being built by the Stone & Webster Engineering Corporation, composed chiefly of Technology men, six of the seven principal men being Institute graduates, all of whom are working for the best interests of the new Technology. The corporation is spending thousands of dollars from its own treasury in order to make the entire project efficient from every standpoint.

On April 9, 1914, the first official pouring of concrete took place. The mixed concrete was trucked in by the company's own lorries. Large batches of the mixture were prepared by the company's own machinery. The concrete was poured over the gravel bases which had been laid. This necessitates a correlation between the supervising engineers, the architects, the building force, firms furnishing stock, and heads of the gangs engaged in each unit of work. It is possible for the engineers to tell when a certain scoop of cement was poured, as there is a device which automatically records each. The concrete forms are used on an average of two and one-half times.

The methods of handling are the most efficient possible. Thousands of carloads of stock must be so delivered that the work shall not be delayed. This necessitates a correlation between the supervising engineers, architects, building forces, firms furnishing stock, and heads of the gangs engaged in each unit of work. It is possible for the engineers to tell when a certain scoop of cement was poured, as there is a device which automatically records each. The concrete forms are used on an average of two and one-half times.

In concrete buildings a modern engineering problem arises of forecasting everything at the time the plans are made. In the building with wooden floors, holes for stairs, etc., are determined in the beginning, but the plumber, steamfitter, and electrician come in their time and cut holes where desired for each particular branch of work. In concrete building, however, the only machine in the present condition, the floors will be found sprinkled with holes for pipes of the different services, the exact run of each having previously been determined in the office.

Over 60,000 square feet of forms have been erected and thousands of tons of reinforcing steel placed, with many more cut and bent, ready for placing. The illustration gives a slight idea where the 28,800 tons of steel reinforcing are being used in the buildings. The only machine in the building for bending the reinforcing steel is used on the ground. The steel reinforcements are delivered in 60-foot rolls.
THE NEW TECHNOLOGY
(Continued from Page Two)

foot lengths and up to one inch present in the machine. The larger sizes are bent by hand on a steel bed. The delivery of the steel is by means of runs which work under the action of gravity. Each kind as it slides down the run drops into its own particular bin and the bars are pulled out from the bins by a winch and then worked on a bending table.

The general plan shows by the shaded portion the buildings now under construction. Of these, the roots are on as far as 3 and 10 and these will soon be posted over. Over 40,000 cubic yards of concrete have gone into the walls and roof. The concrete work is about completed and several of the buildings have received a facing of limestone. The moving of the Cushen will probably be a matter of convenience to the individual departments and it is expected that several will be in their new quarters by next fall. The dedication of the new building will be in their new quarters by next fall.

PRESEN'T MACLAURIN
(Continued from Page One)

forth by announcements of substantial aid to it and its departments. Without a head since the resignation of Dr. Pitchett, the Institute had been unable to discuss important questions. One of these was the manifest impossibility of continuing its work in its present quarters if the full plans of its founders were to be carried out. Technology was then moving under shortened sail till the real captain should come aboard.

Dr. Maclaurin unified the Corporation and the Faculty and with his personality, gained the confidence of the alumni and bound them as never before into a great force working for the benefit of the Institute. One of the first fruits of this was the gift by T. Coleman du Pont of half a million towards the purchase of a new site. Here there came an almost unheralded bit of Institute patriotism for when the payment was to be made for the Cambridge land the Corporation without any fuss or advertisement made up the necessary quarter million and paid down the cash. Following up the idea that it was proper to ask the Commonwealth of Massachusetts to continue its aid to Technology, President Maclaurin and the alumni took up this matter, and the signing of the bill by Governor Foss following this course was a matter of decision.

The methods by which Stone & Webster have carried out the construction work of the New Technology have received many comments on their thoroughness and business-like efficiency. One of the interesting features of this "thoroughness and business-like efficiency" which has been commented upon by many people is their method of conducting the field tests of the concrete.

Samples are taken from each of the five calipers four times a week, one sample being tested at the end of fourteen days, and the other at the end of twenty-eight days. Both specimens are taken from the same batch in order to obtain their true relative value. The concrete is poured into iron molds embedded in moist sand, and resting on a half inch iron plate, is kept in the northeast section of the site, the maximum and minimum temperatures being recorded daily.

Each specimen is tamped in the molds with a six inch flat iron tamp, and only the ordinary precautions are taken. After forty-eight hours, the casts are removed from the molds and buried in moist sand until the morning before the day of testing. They are then brought to the Institute Laboratories, where the test is carried out.

In order to trace out more clearly the various departments of the work compiled a series of progress charts showing the estimated times of the beginning and completion of different construction branches. From a general chart compiled from all of these the following data has been taken:

"The installation of hardware is to take twelve weeks and be finished by June first.

"The plastering and lathing is to be done by the end of next March all of the window frames of the buildings at present under construction will be in place and two weeks later the brick work is scheduled for completion and all the limestone facing is to be in place.

"The partitions are to be erected during the months of March, April, and May 1915.

"Four weeks of April and the first week of May are allotted to roofing and sheet metal work.

"The painting and lathing is to be done by June first.

"August first is to mark the finish of the electrical, the plumbing, the heating, and the ventilating systems.

"Cleaning, the last step, is to cover a space of two months, July and August."
A Letter From "Ma"
With P. S. From Sister

"It was all right to be an Indian in the football season, but you must be civilized now, and heed your social duties. You told us in one of your letters about that BEAUTIFUL DRESS SUIT that Burke makes for $50.00 GET ONE, if you haven't.

Sister's P. S. "That's right."

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