PROFESSOR ROBERT HALLOWELL RICHARDS TENDERED BANQUET

Given in Recognition of Long Connection with the Institute
—To Be Held This Evening at the Copley-Plaza
—Painting To Be Presented

About two hundred and fifty "Tech" men represented the Corporation, Faculty and Alumni at the dinner given to Professor Robert Hallowell Richards last Monday evening at the Copley-Plaza in honor of his fifty years' connection with the Institute. The speakers were President Maclean, Eben S. Stevens, '88, of the same gradually accumulating a gallery of portraits of people closely connected with its history. Besides the one of Professor Richards the collection includes paintings of President Rogers, Mrs. Rogers, President Walker, Dr. Walker, after whom the Walker building is named, President Prichett and Dr. William T. Sedgwick.

MUSICAL CLUBS GIVE CONCERTS THIS WEEK

Play At Brookline This Evening
—At Wellesley College Saturday.

The members of the Combined Musical Clubs will give a concert tonight in the Brookline Baptist Church for the benefit of the Christian Endeavor Society. They are to take a Beacon St. car from Copley Square in time to reach the church at 7. It

(Continued on Page Four)

RED CROSS RELIEF DAY

Boxes For Contributions In All Buildings Monday.

Monday, December 21st, has been declared Red Cross Day for the Institute. On this day there will be placed in each of the buildings properly marked boxes in which students may deposit whatever amount they desire to contribute to the work of relief in Europe. This work is under the control of a University Committee of the Red Cross, with headquarters in New York. The idea is that each month there will be some means established in the big educational institutions of the country by means of which funds may be obtained.

BUSINESS CANDIDATES

Candidates for Business Assistant for Tech Show will meet today and Friday at five o'clock in the Tech Show office.

SENIOR BOARD

The picture of the Senior governing board will be taken at 1 o'clock on Friday, December 11, at Northman's.

CALENDAR

Wednesday, December 9, 1914.
1:30 P. M.—Meeting of candidates for The Tech, Lower Office.
4:00 P. M.—Varsity Basketball Practice, Gym.
5:00 P. M.—Choral Clubs Practice, Gym.
5:00 P. M.—Glee Club Rehearsal, Union.
5:00 P. M.—Candidates for Business Assistant for Tech Show, Tech Show Office.
7:45 P. M.—Musical Clubs Concert, Cottage Club, Brookline Baptist Church.
8:00 P. M.—A. S. M. E. Meeting, Engineering Club Hall, Arlington Street.

Thursday, December 10, 1914.
1:30 P. M.—Roy. C. Hall, Union.
4:15 P. M.—A. S. M. E. Meeting, Engineering Club Hall, Arlington Street.
4:30 P. M.—A. S. M. E. Meeting, Engineering Club Hall, Arlington Street.
ANNUAL DINNER
(Continued from Page One)

money. Margaret F. Richardson of Boston is the artist who executed the work.

"We are here tonight to honor a man known and beloved by Tech men everywhere," said President MacAlli-

in, in opening his review of the work of Professor Richards at the Insti-

tute. "No one living has been longer associated with Technology, for he was in at the very beginning and he has retained the most intimate relationship up to the present.

"The Institute opened with temporary quarters in Summer Street in February, 1862, and the Catalogue of '65-'66, the first that was published, contains the name of Robert Hallow-

ell Richards as a second year student. He was thus one of that group of whom President Eliot, who was al-

so in at the beginning, but as a Professor, not as a student, spoke at the banquet commemorating the fifteenth anniversary of the granting of the Insti-
tute's charter and described as a 'picked up lot.' Mr. Eliot could agree that if their quality could be gauged by the specimens that have survived they were evidently worth picking up.

Immediately on graduating with the first class in '68, he joined the staff of the Institute as an Assistant and only three years later was placed in charge of the mining laboratories. Then began that long period of ser-

vice as a teacher and an investigator that was known (and held) for Professor Richards and did so much to establish the reputation of the Institute in one of the great fields of its activity. In (Continued from Page Two)

College Clothes

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Lippert & Myers Tobacco Co.
BOIVING TEAM STARTED NUMEER OF MEN OUT

Meets Arranged With School And College Teams—Fresnmen Alge.

A movement to form a boxing team at the Institute has been start-
ed again this year. A similar at-
tempt was made last year but as
none of the challenges were accepted the effort proved no success. The University of Pennsylvania, one of
the colleges to which a challenge
was issued, had proposed boxing as
an exhibition game but was not in
condition to meet Technology at the
time. This year, however, it is ex-
pected that meets will be arranged
with both Penn and Cornell. At
present there are about ten men re-
ceiving instruction from William
Rolle, former New England and also
National Middleweight Champion
and now considered one of the leading
promoters in New England.

G. M. Maverick, '15, captain of
last year's team, is heading the
movement, and is desirous of getting
the Athletic Association to purchase
a dummy, in order to get the men
in shape for the first meets with out-
side schools. Among these are the
Allen School at West Newton, Mitch-
ell Academy at Billerica, and Brown
and Nichols at Cambridge.

Up to this time there have been
out for only four classes: Fea-
therweight, 150 lb.; lightweight, 135-
b.; welterweight, 145-lb, and middle-
weight, 120-lb.; lightweight, 135-
.5 lb.; welterweight, 145-lb, and middle-
weight, 120-lb.; lightweight, 135-

the plot.

ANNIVERSARY DINNER
(Continued from Page Two)
this excursion whilst observing the
wonders of fortune at all over the
territories that the thought occurred
that much of this waste was due to a
want of the combination of practical
skill. Professor Richards, who is well
acquainted with the work of the insti-
tutions might go wrong. Here Pro.

In behalf of the alumni Jasper
Whiting expressed the sentiments of a
number of the group in "looking
up" to Professor Richards as embodied
within him the best that is in Tech-

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WILL BE AT THE TECH OFFICE WEDNESDAY
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MUSICAL CLUBS
(Continued from Page One)

In the second step beyond Coolidge Corner on Beacon St. The last practice will take place at 5 o'clock this afternoon in the Union.

On next Saturday evening, the Clubs will give their third concert of the year at Billings Hall, Wellesley College. The concert has attracted considerable attention owing to the fact that it will be one of the numerous events given for the benefit of the Wellesley College Restoration Fund.

G. R. Duryea

In addition to the regular program by the Glee, Mandolin and Banjo Clubs, several features will be introduced; among these are selections by the Glee Club Quartet, the Hawaiian Quartet, readings, and an organ recitation prepared by S. E. Clark, '15, for this occasion. Alexander Martin of Oregon, a member of the Glee Club Quartet, will give several humorous readings. Mr. Martin has had experience in interpretation and will appear regularly with the Clubs in this capacity.

Reserved seats for the Winter Concert and Dance will be placed on sale in the Union from one till two every day commencing tomorrow.

ANNIVERSARY DINNER
(Concluded from Page Three)

accomplished for science and for humanity, but most of all we are to personify the Technology spirit, which in the final analysis implies service to our fellow men."

Professor Richards retired from active work last June after fifty years of connection with the Institute. He was a member of the first graduating class, and, following this, was an assistant from 1888 to 1871. In 1871 he was made Professor of Mineralogy and placed in charge of the Department of Mining Engineering upon its formation. Besides this work in the Mining Department he was Secretary of the Institute for a number of years. Professor Richards has contributed over one hundred volumes to the literature of mining, most of them technical works on applying.

T. C. A. CAMPAIGN IS PROGRESSING WELL

Mr. C. V. Hubbard To Speak Thursday On Japanese Work In Manchuria.

N. E. Kimball, '15, treasurer of the T. C. A., in charge of the financial campaign, reports that his men are meeting with good success in their efforts to procure subscriptions. Two days of the campaign have gone by satisfactorily, and Kimball is placing many hopes in what his men will be able to do today, the last day of the campaign. Subscriptions have been sent in by Alumni as well as members of the student body. Mr. C. V. Hubbard of Japan has been obtained as the speaker for tomorrow.

Mr. C. V. Hubbard has taken as his subject, "What the Japanese Are Doing in Manchuria." In his talk he will take up their mining and railway enterprises and has expressed a willingness to answer any questions concerning prospects and problems of the engineer and architect in Japan.

FEATURE ARTICLE

"The Teaching of Thermodynamics" is the title of an article which will appear in the January issue of the Monthly. It is written by a former Worcester Tech professor, who is at present a consulting engineer, and takes up the application of shortcuts to "thermo" problems. Such an article, the editors feel, is of especial interest to the Juniors.

FINANCE COMMITTEE

There will be a meeting of the Finance Committee tomorrow at seven-thirty in Room A of the Union.

Mandolin Club

There will be a rehearsal of the Mandolin Club tomorrow at 4:15 p.m. in Room B of the Union.

Meeting of Candidates for The Tech "Ones" today. Lower Office

The mining laboratories of the Institute and many other new features established by Professor Richards were the first of their kind in the world. At this time Technology itself was a new venture and the establishment of novelties, such as mining laboratories were then thought to be, was an exceedingly difficult task. As the fruits of Professor Richards' untiring labors in blocking out such broad paths for the future, the man now look upon the world and note between six and seven hundred graduates, nearly all of whom have followed the mining profession with success, with abounding among the world's leaders in mining engineering.
MECHANICALS MEET AT ENGINEERS’ CLUB

Visited General Electric Plant

Yesterday—Trip To Watch Company.

About sixty Seniors in Course II took a trip to the plant of the General Electric Company at West Lynn yesterday morning, under the supervision of President Emerson. The members were met at the factory office by salesmen who conducted them through the River Works in groups of ten. They then saw the process of building commutators, winding armatures and fields, and finishing frames and bases. Some large double-ended direct current generators producing 1000 amperes for electric furnaces were being assembled. At 8 o’clock that evening there will be a meeting of the A. H. M. E. in Emerson’s Club Hall at Harvard at which Mr. W. R. Nourse, Technical expert of the General Electric Company on the manufacture of insulating materials, will speak on “The Technology of Paper Making.” Technical men have been invited to attend.

The Mechanical Engineering Society of Boston has arranged for a trip through the factory of the Watch Company. Two trips will be made, one on the Thursday afternoon, December 17, the other on Friday, December 18. Each party is limited to thirty-five. Men can sign up with P. O. Chisholm, for the Thursday trip, or with W. H. Hanchett for the Friday trip.

CONVOCATION

(Continued from Page One)

The art of technology, and in addition, hearkened to the legacy of his spirit. His father came from Ireland and settled in this country. There were four sons, each of whom contributed greatly to science. As far as the state of two-thirds of a penny, the money was secured with a grant from the state of two-thirds of a penny. An undertaking. In 1861 a charter was secured with a grant of money from the state of two-thirds of a penny. In 1866, the college was established in Boston.

Two things aided in the founding of the college. The first thing was the idea of President Rogers, just the man to carry out their ideas, and William Rogers was just the man who could make a success of such an undertaking. In 1862 a charter was secured, with a grant from the state of two-thirds of a block of land in Back Bay. This land was twenty feet under water.

At the close of the Civil War, the college was opened in 1865 on Summer street. In 1866, in the fall, the school was opened in the first floor of Rogers Building, with only thirteen students. It was a great task to create the Institute out of nothing, with the Civil War going on and with the great depression of business.

President Walker was successor to President Rogers. President H. R., the head of the college, has just retired after fifty years of service, labored night and day in order to do the work of three men, so as to make the school the leading institution of the Institute last, President Rogers, even in ill health, worked long and faithfully. He was a type of gentleman unknown to the world today, solidly in bearing, with a voice like a bell, with eyes deep set, brilliant and shining forth the splendid day, soldierly in bearing, with a voice

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To the ELECTRICALS

TO ENGINEERS’ CLUB

MR. MORSE SPEAKER TO THE ELECTRICALS

Discusses Insulation Of Wires And Cables—Mid-Year Trip Planned.

The Electrical Engineers met last night in the norton to hear Mr. Morse of the Simplex Wire & Cable Company on the manufacture of wire for wire and cable. At this meeting it was moved to consider the admission of members of the Electrical Option Forming Contest to the society. Mention was also made of the Technical picture. The subject of a mid-summer trip was discussed also before Mr. Morse was introduced, this lecture being preparatory to a visit to the company’s plant.

The speaker first told of tinning the wires, to prevent the sulphur of the rubber attacking the copper. The wires are then stranded, either concentric or rope stranding being used. Views were shown of the crode rubber, as it arrives, and as it comes in spundy sheets from forty washers. Then the rolls go to the dryers, preferably the vacuum dryers. In the final compounding process, which is next, the sulphur and other ingredients are added; upon these depends the properties of the insulation. The Simplex Wire & Cable Company maintains a laboratory to determine the effects of various substances upon the properties. Rubber tape machines were then shown on the screen. After forcing the moisture into the form of tubes by an Archimedean screw, the vulcanizing takes place, in large steam drums at 200 to 270 degrees Fahrenheit.

The company manufactures a very extensive testing plant, which involves much expense, but which Mr. Morse said was necessary to get and maintain the best results. The coverings used for the wires were also discussed; among these are the steel tapes, which can be buried underground without loss. The rubber tubes were then shown on the screen. After forcing the moisture into the form of tubes by an Archimedean screw, the vulcanizing takes place, in large steam drums at 200 to 270 degrees Fahrenheit.

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SCIENTIFIC SOCIETY
At the meeting of the Boston Scientific Society held last evening the question of America as a melting-pot for the races was discussed by Joseph F. Gould of Norwood. Mr. Gould has been a special student of the race. He presented some arguments and opinions that run counter to the generally expressed affirmative idea.

VARSITY BASKETBALL
All candidates for the Varsity Basketball team are to report for practice Mondays and Fridays at five and Wednesdays at four. Men who do not have a perfect attendance record will not be taken on the trip.

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