CHEMICAL SOCIETY TO
HEAR EFFICIENCY TALK

Professor Lewis, Mr. Alexander
To Speak At Tonight's
Meeting.

The Chemical Society will hold its
next meeting tonight at seven-thirty
o'clock in the Union. The subject of
discussion will be "Engineering Ef-
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Engineering Department and Mr. Mag-
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the "Taylor System of Efficiency En-
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Men." As the head of the Employ-
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tric Company, Mr. Alexander has had
a great deal of experience in handling
men.

The meeting will start promptly at
7.30 o'clock so that any men who
wish to go to the concert can hear
one speaker. After the talk, refresh-
ments will be served.

ROPE DRIVES

C. B. Sawyer Addresses Mechani-
cals On Methods.

Last Wednesday afternoon Mr. C. B.
Sawyer of the Dodge Sales & En-
gineering Co., spoke before the Me-
chanical Engineering Society on the
subject of Rope Drive.

The system is in use, the English
and the American. The English sys-
tem consists of a large number of in-
dependent loops of rope passing over
the pulleys, while the American sys-
tem has only one long rope which in-
passes around the pulleys a sufficient
number of times and also around a
tightener. The English system can
only be used at low speed and can-
ot be used to advantage vertically.
It also causes trouble because of the
fact that the components are always
most near at the same tension. Thus
some ropes carrying the greater part
of the load and soon wear out. In the

(Continued on Page Two)

SOCIALISM, NEW AND OLD

The M. I. T. Forum has been fortu-
unate in obtaining an unusually live
and energetic clergyman, Rev. R. Gro-
er Mills of the M. I. T. Forum. Mr.
Mills has been in charge of the ser-
vices at the Unitarian Church in Wat-
ertown for several years until he was
called to become the New England
secretary of the Pro Religious Asso-
ciation. He is now president of the
"Pabian club," which originally went
with G. Bernard Shaw, in England. He
is also the president of the School
of Social Sciences.

Rev. Mills will speak on "Social-
ism," next Tuesday. Further particulars
may be found in Monday's Tech.

RECORD NUMBER PRESENT
AT JUNIOR DINNER.

Undergraduate Part In Dedication
And Reunion Next June
Made Public.

The Junior Class held their annual
dinner last night at the Union and
assembled some 292 men.

The gathering was by far the larg-
est in the history of the class; the
freshman dinner bringing out 284, and
the Sophomore banquet only 137.
In comparison with recent class din-
ers at the Union, the affair of last
night was the largest held at the
Union or elsewhere.

The class assembled at the Union at
6.30 o'clock and shortly after guar-
anteed to the dining room below. By
the time this goes to press every road
was crammed with people trying to
get to the All-Technology concert.

The multitude have arisen and by
the time this goes to press every road
between Massachusetts Avenue
and Tremont Street will be
throughed with people or perhaps we
might say droves of people all eager
and madly rushing to get to the All-
Technology concert of the Combined
Musical Clubs. In fact, as one ap-
proached it, a resident of this burg who
ventures forth at the hour set for
action will think the World's Series is
being played all over again.

For as the men themselves, that is,
the audience, wish to announce to
the public that with all due modest-
y, etc., etc., they will stage the
best collection of classics, syncop-
all possible.

(Continued on Page Two)

THE PAN-AMERICAN
SCIENTIFIC CONGRESS

Professors Sedgwick And Jackson
Active In Proceedings At
Washington.

Technology has had a number of its
instructing staff at the Pan-American
Scientific Congress in Washington,
headed by Professor W. T. Sedgwick,
who has many errands at the Capitol.

(Continued on Page Four)

RELY TEAMS

Varsity And Freshman Teams To
Be Chosen.

The first time trials for the spring
and freshman relay teams were held
Tuesday; all relay candidates will be
listed during this week. These are
not only preliminary time trials but they
have a very important bearing on the
final selection of the teams that are
to run in the B. A. A. annual games
February 5, when the varsity race
Dartmouth and the freshman meet
Holy Cross and Dartmouth in a tri-
race.

There will be a cut made in the
track squad immediately after the In-
terclass Track Meet. The room and
time for handling such a large num-
ber is not adequate and it is impor-
tive for the success of the teams that
they receive more room and time.

It is also especially important that
all members of the squad report for
the Interclass meet next Saturday.
Those desiring to remain on the list
of candidates ought surely to put in
an appearance for this meet.

STATISTICS

Statistics just issued show that the
average standing of fraternity stu-
dents during the past year has been
the same as that of the other stu-
dents. This record slightly exceeds
that of the previous year.

The comparison of the classes shows
that the average of the second year is
below that of the first; the third
year squalls the first; and that the
senior average is the highest.

In the activities, the men in athlet-
es and those on the Tech, Technique
and the Monthly, stand above the
average, while those in the Show (1914)
and in musical clubs do not show so
good a rating.

M. I. T. ORCHESTRA

Twenty-six men were present at
the regular rehearsal of the orchestra
Wednesday afternoon. Some new ban-
dolines have come out since the
annoucement of the orchestra's con-
nection with the Tech Show, and
the orchestra desires to hear from all
sent notices the orchestra now has
nearly a full personnel.

MUSIC COMPETITION

Next Tuesday afternoon Mr. How-
ard, of the orchestra, will make the
final selection of music for the Tech
Show. All music writers are to meet
the judges at 5.00 o'clock in the
Cage or from the Cage, for the
prize which will be given to the
band which will make the

(Continued on Page Two)

CALENDAR

Friday, January 7, 1916.
4.00—Hockey Team leaves North
Station for Hadley.
7.30—Chemical Society Meeting.

Saturday, January 8, 1916.
8.00—All Technology Concert, Hung-
tington Hall.
8.00—Choral Meet, Technology vs.
9.00—Interclass Track Meet. M. I.
T. Gym.

CLUB MEETINGS

COSMOPOLITAN CLUB

"Chinese Night" To Be Held
Next Wednesday Evening.

On Wednesday evening, January 12,
the Cosmopolitan Club will hold its
so-called "Chinese Night" in the Union
at 8 o'clock. The program has been
definitely arranged, and will include
Chinese instrumental music, songs,
and acts. The committee in charge
has been able to assure this year the
sale of several of the Chinese students
at Wellesley and Radcliffe colleges.
Refurbishments will follow the enter-
tainment.

The members of the club extend a
cordial invitation to all men and wom-
en desiring to attend this meeting.
Concert tickets may be secured by ap-
plying at the Cage or from R. K. Kwan,
treasurer of the club.

INTERCLASS TRACK MEET

The Interclass Track Meet will be
held in the Gymnasium tomorrow at
3.30 P. M. sharp. Every member of the
track squad is required to be present.

The order of events is as follows:
100-yard dash, 220-yard dash, 440-yard
run, 880-yard run, mile run, high bar-
dies, low hurdles, high jump and shot
put.
Tech Barber Shop
22 HUNTINGTON AVE.
UP ONE FLIGHT
Tailoring Done Next Door.

Bowling Headquarters
For Tech Bowling Leagues
We solicit the patronage of Tech Students and Alumni.
Alyea screened for PBA parties.
Two minutes' walk from all Institute Buildings and, in the few
minutes of beautiful recreation before meals and between classes.
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E. B. THRASHER
Proprietor and Manager
Established 1898.
Tel. B. B. 6000

Richards School of Dancing
30 Huntington Ave., Huntington Chambers
CLASSES Monday, Wednesday, Friday
ASSEMBLES Saturday Evenings 8:30 o'clock
Private Lessons by Appointment
TELEPHONE 8 B. 9000

One of the athletic features at
Dartmouth College is the annual Win-
ter carnival, which consists of ath-
etic and other entertainments. This
winter's events will be held on Febru-
ary 10, 11, and 12, and the athletic fea-
tures will be a hockey game on Alumni
Oval on February 11, with prov-
liminary heats of the intercollegiate
sail and snowshoe competitions. The
finals will be contested the next af-
fternoon. C. G. Paulson of New Hamp-
shire State College will give an ex-
hibition on skis and in the evening,
time there will be a basketball game be-
 tween Yale and Dartmouth.

An unsuccessful attempt was re-
cently made to flood the newly-built
hockey rink at Maine University. The
system of drainage did not work so
that the water could not be prevented
from soaking into the ground. More
trials, however, will be made as soon
as the weather becomes colder.

The Engineering Society of Brown
University was recently addressed by
F. E. Winsor of the Providence Board
of Water Supply and its chief en-
gineer. He delivered a talk on the
"Engineering Efficiency." Mr. Alex-
ander is head of the Employment
Department of the General Electric
Company, and has a great deal of
experience with the employment of
men. The Chemical Society had this
data reserved long before Christmas,
and the musical clubs set it for their
concert without consulting the calen-
dar committee. The meeting will
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start promptly at 7:30, so that men
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have time to hear one speaker.

TRACK NOTICE
The 390 yard trials which are be-
ing run off this week will count for
the final heat of the 440 yard run in
the Interclass Track Meet this com-
ing Saturday.

M. I. T. ORCHESTRA
The M. I. T. Orchestra will hold a
rehearsal in the Union today at 4:00
o'clock.

The management would like to
meet any man who have had experi-
ence in playing the viola, horn, or
double bass, whether they possess
the instruments or not, at this re-
hearsal.

BOSTON, MASS., WEDNESDAY, JANUARY 5, 1916

BOSTON, MASS., WEDNESDAY, JANUARY 5, 1916

ITALIAN

Restaurant

TABLE D'HOTE

DINNER 5 to 8.30

A LA CARTE

STRICTLY ITALIAN CUISINE

Italian Wines

Music

BOYLSTON PLACE

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TECH UNION BARBER SHOP
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Hotel Westminster
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bers. The best balloons and most per-
fectly ventilated shop in the Back Bay.

THE TECH UNION BARBER SHOP

Best of Food, Lowest Prices

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364 Columbus Avenue

Students' Cast-off Clothing
and other personal effects sought by

KEEZER

369 Columbus Avenue

Corner of Yarmouth Street

Highest Prices Paid for Same

Phone, Write or Call

Open Evenings to 9 o'clock

B. B. 8483.
Professor Lewis, Mr. Alexander To Speak At Tonight's Meeting.

The Chemical Society will hold its next meeting tonight at seven-thirty o'clock in the Union. The subject of discussion will be "Engineering Efficiency." The speakers will be Professor W. K. Lewis of the Chemical Engineering Department and Mr. Magness Alexander of the General Electric Company. Dr. Lewis is to speak on the "Taylor System of Efficiency Engineering." Mr. Alexander's subject is "The Hiring and Firing of Men." As the head of the Employment Department of the General Electric Company, Mr. Alexander has had a great deal of experience in handling men.

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C. B. Sawyer Addresses Mechanicals On Methods.

Last Wednesday afternoon Mr. C. B. Sawyer of the Dodge Sales & Engineering Co. spoke before the Mechanical Engineering Society on the subject of rope driving. Two systems are in use, the English and the American. The English system consists of a large number of independent loops of rope passing over the pulleys, while the American system has only one long rope which is passed around the pulleys a sufficient number of times and also around a tighthead. The English system can only be used at low speed and cannot be used advantage vertically. It also causes trouble because of the fact that the different ropes are almost never at the same tension. Thus some rope are carrying the greater part of the load and soon wear out. In the

SOCIALLY, NEW AND OLD

The M. I. T. Forum has been fortunate in obtaining an unusually live and interesting organizer, Mr. R. Grover Mills to address them. Mr. Mills has been in charge of the services at the Unitarian Church in Watertown for several years until he was called to become the New England secretary of the Pres Religious Association. He is now president of the "Fuban Club," which originated with G. Bernard Shaw, in England. He is also the president officer at the School of Social Science.

Rev. Mills will speak on "Sociology" next Tuesday. Further particulars may be found in Monday's Tech.

MUSIC COMPETITION

Next Tuesday afternoon Mr. Howard and several other judges will make the final selection of music for the Tech Show. All music writers are to meet the judges at 8.00 o'clock in the Union, and must be prepared to play their final compositions for the judges.

THE PAN-AMERICAN SCIENTIFIC CONGRESS

Professors Sedgwick and Jackson Active In Proceedings At Washington.

Technology has had a number of its instructing staff at the Pan-American Scientific Congress in Washington, headed by Professor W. T. Bedrock, who has many errands at the Capitol. (Continued on Page Four)

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It is also especially important that all members of the squad report for the Interclass meet next Saturday. Those desiring to remain on the list of candidates ought surely to put in an appearance for this meet.

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Twenty-six men were present at the regular rehearsal of the orchestra Wednesday afternoon. Some new ten diana have come out since the announcement of the orchestra's connection with the Tech Show, and the management desires to hear from all prospective members before the mid-year vacation, as the orchestra now has nearly a full personnel.

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which they have been striving all their lives. Many of these students have这儿 missing a word or two.

All Tech Concert
(Continued from Page One)

The man that don't build castles in the air don't build any with bricks, an' that's no better air castle building material than VELVET.

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HEADQUARTERS
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Analytical Balance and Weights.

ONE OF OUR LEADING SPECIALTIES

VELVET.

The Tech, Boston, Mass., Friday, January 7, 1916

Page 2

THE TECH

Address as second-class matter, Sept. 16, 1915, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

Published tri-weekly during the college year by students of the Massachusetts Institute of Technology.

Office 42 Trinity Place.
Phone—Rock 5251 or 2150.
Night Phone—Rock 5257.

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Subscriptions $1.00 per year in advance. Single copies, 2 cents.

Subscriptions within the Boston Postal District and outside of the United States must be accompanied by postage at the rate of one cent a copy.

FRIDAY, JANUARY 7, 1916

Congratulations are due the Junior Class on the unusually large attendance at the class dinner and the enthusiasm which characterized the whole evening. It is particularly worthy of note that they did not break away from the custom of holding class dinners in the Union in spite of the fact that it was their last year on this side of the river, and that the ever present temptation of going to a hotel was unusually strong. It was demonstrated pretty clearly last night that it matters not so much where or what you eat as with whom you are eating.

THE YEARLY TRAGEDY.

The spectacle of one or two hundred students leaving the Institute every February, distressing as it is, is probably little more than a passing thought and is regarded as inevitable. Failures may be roughly ascribed to three causes: a non-scientific central makeup, without an interest in work, and worry due to an overwhelming sense of unperformed tasks. Little can be said of those who fall in either of the first two classes except that it better for all that they should leave; it is the third class that really deserves the best thought that can be bestowed upon it by us. Men who go to pieces in their examinations, like those who are forced to leave in the middle of the term to avoid a serious collapse—these men lose a whole year out of their lives; or may even be forced to abandon an ideal for which they have been striving all their lives. It is usually conceded that if the Institute is true to a man how to concentrate and to efficiently use his time it has succeeded as far as that man is concerned. The overwhelming sense of unperformed duties which leads first to a chronic state of gloom, and finally to failure or breakdown, is due to nothing else than inability to concentrate and to efficiently employ time. Yet nowhere in the curriculum can there be found the slightest hint or suggestion as to how to cultivate these fundamentals. The student is left to pick up odds and ends of useful information on these matters wherever he may be fortunate enough to find them. The problem of applying the scientific method to training in personal efficiency is yet to be worked out practically, but it would seem that Technology by the very nature of its purpose should lead the way as it has done already in so many other unorganized fields. Certainly the elimination of a very tragic phase of Institute life is worth the careful thought and thorough consideration which the Faculty can give it.

THE PLAZA

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Boston.

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Corner of Yarmouth Street

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Open Evenings to 9 o'clock

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RICHARD'S SCHOOL OF DANCING

30 Huntington Ave., Huntington Chambers

CLASSES Monday, Wednesday, Friday evenings at 8 o'clock

ASSEMBLIES Saturday evenings 8:30 o'clock

Private Lessons by Appointment

Telephone B. B. 6640

Students' Tailor

J. C. LITTLEFIELD

High Class Tailor

12 BEACON STREET

Evening Clothes a Specialty
 Provisional Schedule of Semi-Annual Examinations, 1916

Subject to Correction by Bulletin.

THE LAST EXAMINATIONS WILL BE HELD JANUARY 19TH.

Enrollment conditions examinations, all special examinations granted by the Faculty and all examinations postponed from September are to be taken at this time, unless otherwise specifically authorized. Students entitled to examinations not on this schedule and those having two examinations on the same day should have in one of the schedules issued by the Institute, which will be cut out within the next few days, checked for all their examinations not later than January 18th. Assignments for special examinations and new appointments for conflicts will be mailed to students on Tuesday, January 18th. None can be arranged later.

Reports will be mailed to students of age and to those not living in the Men's dormitories. For appointments for special examinations and new appointments for conflicts will be mailed to students on Wednesday, January 18th. None can be arranged later.

The second term will begin Monday, February 7th.

This Schedule is Provisional Only.

NEW SUMMARIES OF TECHNOLOGY MEN

Total Registration Now Exactly Nineteen Hundred—Many Foreign Students

The 1916-17 catalogue of the Institute shows a total student population of 1999, including post-graduate, graduate, and graduate-eliminated. During the past year the upper classes have increased in number far more than the lower classes, there being a decrease of 20 in the first year men as compared with an increase of 50, 30 and 15 respectively in the men of the fourth, third and second years. This is due to the increasing number of students who come to Technology from other colleges.

The cosmopolitan character of the student body is manifest from its international character shows a total student population of 1999, including post-graduate, graduate, and graduate-eliminated. During the past year the upper classes have increased in number far more than the lower classes, there being a decrease of 20 in the first year men as compared with an increase of 50, 30 and 15 respectively in the men of the fourth, third and second years. This is due to the increasing number of students who come to Technology from other colleges.

The cosmopolitan character of the student body is manifest from its international character. Technology in the League practically depends on the result.

THE SECOND TERM WILLL BE HELD JANUARY 19TH.

This evening the second Technology-Harvard game will take place at Fulton Hall, Harvard. Inasmuch as the teams have so far been evenly matched, no contest of the season. The respective standing of Harvard and Technology in the League practically depends on the result.
T. C. A. TALK FRIDAY
Hon. S. J. Elder To Discuss League For Preparedness.

Friday noon, the T. C. A. speaker will be Hon. S. J. Elder, a prominent New York lawyer, who is to talk on "A League to Enforce Preparedness," in which he is a constant student of international reputation having served the United States as counsel in the North Atlantic Fisheries Arbitration with Great Britain at the Hague in 1909. Moreover, he is a member of national and international societies and has taken an active part in the discussions of the present problems of this country. During the past year, Mr. Elder has addressed a large number of societies and other organizations on matters regarding the great question of today—Peace and Preparedness.

The address, which was to have been given at 1.30 Thursday, has been postponed until today, due to a conflict with the inauguration of Governor McCall yesterday.

1918 TUG OF WAR TEAM

The picturesque of the 1918 Tug of War team will be taken on Jan. 13, at 1.05 o'clock at Bachrach's studio, 649 Boylston street. Every member of the team is requested to be on time and bring sweaters.

ALUMNI BANQUET TOMORROW AT PLAZA

Prominent Men Will Speak at Annual Dinner Of Graduates.

Plans are perfected for the annual Alumni Dinner which is to be held at the Copley Plaza tomorrow evening at 7.15 o'clock. The list of speakers will include Hon. Samuel W. McColl, Governor of the Commonwealth, President MacAulay, Samuel Insull, President of the Commonwealth Edison Company of Chicago, and Charles A. Strood, the incoming president of the association. Governor McColl is, ex-officio, a member of the Technology Corporation. Mr. Stone, the president-elect, will formally take up the management for the coming year. The committee in charge of the affair is the one which has managed other successful banquets of the Alumni Association. It consists of George B. Gillette, '95, chairman; Harry S. Mork, '99; Don Galusha, '94; Lawrence Allen, '97; and Harold E. Keckel, '92. A plan for a novel means of entertainment is being prepared and will be different from anything seen at former Alumni banquets.

C. E. SOCIETY

The next meeting of the Civil Engineering Society will be held on February 11. Professor Ralph A. Cram, head of Course IV, will be the speaker.

FACULTY NOTICE

Third Year Physics Heat Problems will be returned in the basemen of Walker until January 11.

PROP. C. L. NORTON.

PAN-AMERICAN CONGRESS (Continued from Page One)

One of these is his paper before Congress which is to take up the Sanitary Aspects of Waste Disposal. It is said, as many of the countries have no regular national boards of health at present, the timeliness of such a discussion is self-evident. One of the missions of Professor Sedgwick in Washington is to attend the meetings of the Advisory Council of the U. S. Public Health Service, of which he is a member, and in this connection he will give two lectures to the student officers during his stay. Last week he took part in the annual meeting of the American Association of University Professors and this week he will treat the matter from the engineering point of view. This is different in some particulars from the legal method in that in addition to the actual physical equipment, there is a value in what may be termed "intangibles," which are actually property, but of such nature that it is the court that determines their value. It is usually expected of engineers that they give suggestions to the court, but they are not generally dealt with in detail by them. The process is not an exact one, although there are some who have considered it.

HOCKEY NOTICE

The following men will take the 4.00 o'clock train for Hanover this afternoon: Clarke, Cochran, Johnson, Swain, Thomas, Tuttle, Wasmakers, Woodward and Young. The locker room at the Arena will be open between 1.00 and 2.00 o'clock when these men can get their uniforms.

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JUNIOR DINNER
(Continued from Page One)
its three annual banquets; he spoke of Technology spirit in comparison with the so-called collegian spirit of other educational institutions. The Dean brought out, very strongly, the point that the spirit which supports student teams and which makes the big thing of the glamour of college life is not the moving force at the Institute. The spirit which can produce a Tech Show, or a collegiate annual such as Technique, however, is the spirit of stamina and consistent effort and, to a large degree, careful planning. This, the Dean maintained, is the true Technology spirit.

The next speaker to be introduced was "Ike" Litchfield, Field Manager of the Alumni, and Editor of the Technology Review. Mr. Litchfield spoke entirely about the plans for the dedication of the New Technology next June. The Alumni have, by means of various committees, made very elaborate plans for the celebration of the most important milestone in the history of Technology. The affair will officially begin in New York, Sunday afternoon, June 11th. Here, one of the regular boats, running on the outside line chartered especially for the occasion, will take on board the Boston-bound Technology Alumni. Plans are under way for a unique entertainment event that evening on board ship. The details of these plans have been purposely kept dark. Upon the arrival of the boat in Boston Harbor, Monday morning, a large delegation of undergraduate students will meet the arriving guests and escort them in a body to Huntington Hall. The meeting in Rogers is for the older Alumni only, as the seating capacity of the hall is limited. Dr. Meadwill address the Alumni. Following this, the next few hours are to be given over to fraternity luncheons.

In the afternoon, an inspection of the new Technology will be made. Plans for this event involve a trip across the Charles River Basin in launches about 75 or 80 will be used. A feature of the inspection trip will be an elaborate exhibition called "Fifty Years of Technology." "Fifty Years of Technology." This exhibition is to embrace facts, perfectly represented, concerning the growth of the Institute; scientific developments; facts about educational institutions, and the like. Following the inspection, tea will be served upon the roof of the new buildings.

The evening of that day, Monday, is to be taken up with class dinners. In order to properly provide for the great number of men participating, the entire City Club of Boston has been secured. Dinners will be served in the whole building. At 11 o'clock in the evening, as large a number of students as possible will congregate outside and escort the Alumni back to Rogers, where a celebration is to be held.

The following day will be spent at Nantasket. Two large boats have been chartered for transportation. After lunch at the beach, the individual class stunts will be staged. In the evening, after returning to Boston, an immense banquet will be presented in the great court of the new buildings.
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CIVIL ENGINEERING
SOCIETY MEETING


At the meeting Wednesday night two speakers, Mr. E. F. McSweeney, Chairman of the Board of Directors of the Port of Boston, and Mr. R. E. Barrett, Chief Engineer of the Board of Directors, addressed the Civil Engineering Society. Professor Spofford, Chairman of the Board of Directors, introduced the speakers. Mr. McSweeney, who spoke on the need of a Merchant Marine, gave a history of American shipping. He explained the reasons for our present lack of marine facilities, and showed the nation's dependence for its future prosperity on the building up of our shipping interests.

Mr. Barrett showed the engineering aspects of port development with particular reference to the development of the Port of Boston. He also explained the details of the organization of the engineering staff.

ATHLETIC COUNCIL

There will be a meeting of the Advisory Council on athletics on Tuesday evening, January 11, at 8 o'clock at 295 Commonwealth Avenue.

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