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CAMBRIDGE, MASS., FRIDAY, APRIL 13, 1917

Price Five Cents

JOHN RITCHIE, JR., DISCUSSES WHITE MTS.

"Appalachian Club" Responsible
For All Pioneer Work in New
Hampshire Highlands Says
Naturalist

OVER 200 MILES OF PATHS

At the meeting of the Pack and Pad-
dle Club held last night, Mr. John
Ritchie, Jr., gave an interesting ac-
count of the work of the Appalachian
Club in the White Mountains.

"A great deal of the work in the
White Mountains," he said, "has been
done by the Appalachian Club. They
made the first map of these mountains
and were, undoubtedly, the first white
men to set foot on many of its peaks.
The work of the club was to open up
this beautiful district so that people
could enjoy the view from the peaks.

"There are two ways of getting at
the White Mountains; one is from the
east, the other, from the west. These
mountains extend from the northern
part of Lake Winnepesaukee nearly to
the Canadian border. They compose

(Continued on page 3)

MAINE AND BOWDOIN CANCEL TRACK DATES

Pennsylvania and Harvard May Be
Substituted

The dual track meets scheduled for
this season with Bowdoin and Maine
have been canceled. Both colleges have
decided to withdraw from all athletic
contests with out-of-the-state teams
because of the war. The track manage-
ment is making an attempt to stage a
dual meet with Pennsylvania, who has
also lost meets on account of the war.
It is understood that Harvard will hold
a meet with us unless too many of their
men leave.

The freshman track manager is in
communication with Exeter, and needs
only the financial support of the class
to make a meet with this school a certainty.

Tomorrow afternoon at 2.30 o'clock
the Sophomore-freshman meet sched-
uled for last Saturday will be held.
Although the Sophomores are strong in
the mile and half mile events, the
freshmen are practically sure of first
places in the quarter mile run, the 220
and the 100-yard dashes. This is one of
the few meets that will take place on
Tech Field this year, and warrants a
good attendance.

SECTION E TRIMS B IN FIRST GAME OF DORMS' SERIES

The Spring baseball season, in which
the dormitory sections and fraternities
are showing great interest, was duly
opened yesterday morning with the
playing of the first game of the Dormi-
tory League between Sections B and E.
Although some of the members of the
teams were reluctant to get up in the
early morning, the game was played off
in fine shape to the approval of the
onlookers. Section E's team was easily
defeated to the tune of 4 to 1. The
battery for Section B consisted of D. M.
McFarland and J. C. Parker '19, while
M. Pierce '20 pitched and H. V. Sturte-
vant caught for the Section E contin-
gent. G. F. Mally '17 umpired the
game judiciously.

The bats and balls for the use of
Section C baseball team have arrived
and are now in Supt. McCafferty's of-
fice, to be used only by the members of
the Section C baseball team.

The following schedule has been made
out by the committee in charge of the
Dormitory League:

- Saturday, April 14—C-D. First game.
- Tuesday, April 17—B-D. First game.
- Tuesday, April 24—C-E. First game.
- Thursday, April 26—B-C. Second game.
- Saturday, April 28—B-E. Second game.
- Tuesday, May 1—C-D. Second game.
- Thursday, May 3—C-E. Second game.
- Saturday, May 5—B-D. Second game.
- Tuesday, May 8—D-E. Second game.
- Thursday, May 10—C-E. Third game.
- Saturday, May 12—C-D. Third game.
- Tuesday, May 15—B-E. Third game.
- Thursday, May 17—B-C. Third game.
- Saturday, May 19—D-E. Third game.
- Tuesday, May 22—B-D. Third game.

"The Girl" and Premier Danseur --- Will Star in the Tech Show "Ballet Soleil"

Brilliant Russian Costumes Will
Clothe Dancers in Artistic
Scene Designed by Clark
Robinson



DRESS REHEARSAL SUNDAY

"Not a Chance" is now practically
ready for production and will have a
final complete dress rehearsal at the
National Theatre Sunday. The scenery,
which was designed by a committee of
architectural students headed by Clark
Robinson, will be set for each scene.
As for "M 34," the scenery has been
painted by Robert Brunton, who is well
known in theatrical circles as the
painter of scenes for the Follies.

The special dancing, a portion of the
Show which has been gradually im-
proved since it was featured three years
ago, will be rehearsed with the rest of
the production. J. Paul Gardner '17 is
again the Premier Danseur. With J. S.
Coldwell '19 and a ballet of twelve, he
will present a ballet, "Le Soleil," by
Clark Robinson. Virginia Tanner, who
had charge of Technology's Pageant

last June, has arranged the scenes and
dances.

Gardner, in connection with his dan-
cing, has made a study of costuming,
and has made chairman of a com-
mittee which has designed all the cos-
tumes for "Not a Chance." The ballet
costumes are Russian and, like that of
the chorus, are elaborately but artisti-
cally colored. The actual dressmaking
has been done by a professional dress-
maker.

Pictures of Gardner, Frazier, Cristal,
and other members of "Not a Chance"
have excited some comment, and con-
sequently placed on sale at the Technol-
ogy Branch, as well as at the Show
Office. Coldwell as "The Girl" is con-
sidered particularly attractive.

Applications for tickets to the Bos-
ton and Somerville performances will
be redeemed again today in the main
lobby. Tomorrow and Monday will be
the last days of distribution here, as
they are to be sent to the theatre for
public sale.

An opportunity is open for nine more
Junior ushers. They will be drilled at
the dress rehearsal Sunday morning.
Details will be given to all ushers to-
day at the Show Office.

"Win" Caird '18, Publicity Manager
of "Not a Chance," left for Northamp-
ton yesterday morning for the final ad-
vertising and publicity work. He wired
last night that indications there point
to a repetition of the jammed house
played to by "M 34" last year.

At the dress rehearsal Sunday morn-
ing at the National Theatre, "Not a
Chance" will be given completely for
the first time.

TO CALL JUNIOR WEEK MASS MEETING AT 4.15

Technique, Tech Show and Track
Representatives Will Outline
Plans For Festivities Next
Week, in Room 10-250

WILL REHEARSE SONGS

Following a precedent of other years,
that of having a mass meeting previous
to Junior Week, the student body will
get together this afternoon at 4.15
o'clock in Smith Hall. The purpose of
this meeting is to announce the pro-
gram which is to be followed out dur-
ing that week. The final plans will be
explained by representatives of the va-
rious activities. A member of the Mu-
sical Clubs will announce the final ar-
rangements of the Spring Concert. All
the details in regard to the Technique
Rush will be told by the publicity man-
ager. Due to the removal of the rush
from behind the Copley Plaza Hotel,
where it was held last year, to the
Great Court, necessitates the changing
of arrangements to a certain degree.
Many new and live features will be
held in connection with the rush, the
details of which will be disclosed this
afternoon. The rush will be conducted
along military lines with the assistance
of the Engineer Corps. In regard to
the Show, the General Manager will tell
where and why the Show is being held
and describe the details of the Somer-
ville and Northampton trips. There
will be many new features in connec-
tion with the Show which as yet have
not been explained to the student body,
and since the afternoon performance is
essentially a student one, many impor-
tant details in regard to it will be
described. Several innovations will take
place between the acts and these also
will be disclosed.

The War Preparedness Committee
will send a representative who will in-
form the students as to the latest plans
which the committee has formulated
and also in regard to the newest de-
velopments. If possible a member of
the Institute Committee will outline
the course which the student activities
should pursue during the next few
weeks.

Short talks will be given by mem-
bers of the Prom Committee, and by
the track management with respect to
the interclass meet.

Institute cheers will be given under
the leadership of "Rad" Stevens '17.
Also slides of about six Technology
songs will be thrown on the screen and
the students will be asked to join in.
The Technology band will be present
and will furnish the music for the oc-
casion. The committee in charge of the
mass meeting is trying to make ar-
rangements whereby those students
having classes at that hour may be ex-
cused in order that they may attend.
There is nothing definite in regard to
this last matter, however.

THERE WILL BE AN IMPORTANT MEETING OF ALL NEWS MEN ON THE TECH IN THE TECH OFFICE TODAY AT 1.05 O'CLOCK.

CALENDAR

- Friday, April 13, 1917
- 1.00 P. M.—Senior Class Day Budget Meeting. Room 1-190.
- 1.05 P. M.—Meeting News Department of The Tech. Tech Office.
- 4.15 P. M.—Junior Week Mass Meet- ing. Room 10-250.
- 4.30 P. M.—Technique Band Candi- dates. Room 1-151.
- 7.15 P. M.—Rehearsal Tech Show Cast and Chorus. Room 1-190.
- Saturday, April 14, 1917
- 2.00 P. M.—Rehearsal Tech Show Or- chestra and Ballet. National Theatre.
- 2.15 P. M.—Rehearsal Tech Show Cast and Chorus. Room 1-190.
- 8.00 P. M.—Cosmopolitan Club Chinese Night. Copley Hall.
- Sunday, April 15, 1917
- 9.00 A. M.—Full Dress Rehearsal of Tech Show. National The- atre.
- Monday, April 16, 1917
- 1.00 P. M.—Meeting Crew Managers. Room 4-180.

TO VISIT AIRPLANE PLANT

Aero Club Will Visit Sturtevant
Factory in Jamaica Plain

All of the paid up members of the
Aero Club will go on a trip to the
Sturtevant Airplane factory at Jama-
ica Plain. It is through the courtesy of
G. C. Loening, vice-president and gen-
eral manager of the company, that the
club is permitted to visit the factory.
At least one machine will be assembled
before the men in order to let them see
how they are made. The Sturtevant
machines are rather unique in that they
are built almost entirely of steel. The
Sturtevant Company use their own en-
gines which are of the V-type and are
rated at one hundred and forty horse-
power.

The men who will take the trip will
meet in the Winter Street subway sta-
tion at a few minutes before 9.00
o'clock Wednesday morning and will
take the southbound Elevated for Jama-
ica Plain, going directly to the fac-
tory which is located on Williams
street.

The club has gotten up a question-
naire similar to the one of the Insti-
tute Committee except that it relates
to aeronautics only and the officers are
endeavoring to get every member of the
club to fill out one of these. These
questionnaires are solely for the pur-
pose of finding out from each man in
the club what branch of the aero serv-
ice he wishes to enter, if any, and also

(Continued on page 3)

1920 BALL GAME CANCELLED

The game scheduled for the freshman
team with Malden High School for
next Saturday has been cancelled
through the death of one indirectly
connected with the team.

ORIENTAL PLAY TO BE GIVEN AT COPLEY HALL TOMORROW

Cosmopolitan Club to Hold Annual
"Chinese Night"

The annual Chinese play and enter-
tainment given by the members of the
Cosmopolitan Club will be held tomor-
row evening at Copley Hall at 8.00
o'clock. The play this year shows the
change from the old to the new in Chi-
nese social customs and life, especially
that of the Chinese student. An enter-
tainment will be held immediately af-
ter the play which will consist of sev-
eral Chinese games and tricks. The
play is being run this year to help
swell the reserve fund for the club
room in the Walker Memorial next
year. A few tickets have been left over
which will be put on sale at the Caf
today and tomorrow from 12.30 to 2.00
o'clock.

INTERCLASS MEET WILL BE HELD NEXT FRIDAY

Freshmen and Seniors in Fight for
Honors

The Spring Interclass Meet will be
held on Tech Field next Friday morn-
ing at 10.30 o'clock. The indoor Inter-
class Meet, held while the Varsity team
was in Philadelphia, resulted in a de-
cided victory for the freshmen, but the
varsity men will be in this Spring
Meet, and the freshmen will not have
as easy a time.

A. De Zubiria '18, who captured first
in the mile in the indoor meet, will
doubtless be forced from a place by
H. A. Herzog '19, H. Stephens '18 and
G. C. McCarten '19. F. P. O'Hara is
sure of a first place in the dashes, while
J. W. Doon '17, R. Russert '17 and C.
W. Loomis '17 will doubtless place.
Fourteen cups have been donated by
graduates, some of the activities and
members of the Advisory Council, and
the track management.

TECHNIQUE BAND

All those who have ever played any
instrument and care to contribute to
the chaos Tuesday, April 17, please
meet in Room 1-151 at 4.30 Friday. No
instrument needed necessarily.

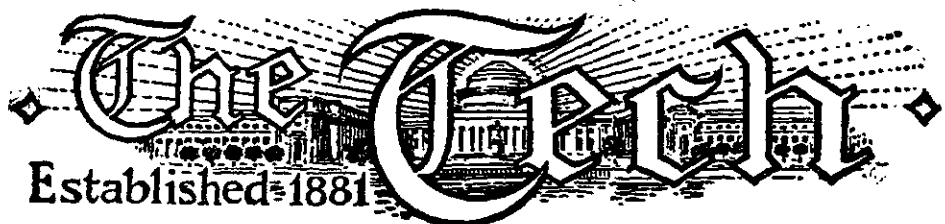
90,000 LOAVES A DAY

Chemical Society Sees Sanitary
Shop of Ward Baking Co.

About twenty men went on the
Chemical Society's trip yesterday after-
noon to the Boston factory of the Ward
Baking Company, manufacturers of the
familiar Tip-Top Bread. The trip was
very interesting as well as instructive,
the most interesting feature being the
extensive application of modern ma-
chinery and methods to the making and
the handling of the bread. In contrast
to most factories engaged in the manu-
facture of things other than food prod-
ucts, cleanliness was conspicuous
everywhere. Even the engine room,
with everything spotless and shining,
was another example of the sanitary
way in which the factory is conducted.

Unfortunately the trip was made be-
tween shifts, and only a small part of
the plant was in actual operation. How-
ever, there was enough doing so that
every process could be seen, beginning
with the mixing of the dough and fol-
lowing it through until the finished
bread was loaded on the trucks ready
for delivery. The ingredients of the
dough are mixed together in huge mix-
ing machines, after which the pasty
mass is placed in long tubs to rise. All
the dough must rise twice before it is
baked. The baking is done at a tem-
perature of six to seven hundred de-
grees Fahrenheit in great ovens, each of
over seven hundred loaves capacity. Af-

(Continued on page 4)



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Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. The Tech assumes no responsibility, however, for the facts as stated nor for the opinions expressed.

The Editor-in-Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

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FRIDAY, APRIL 13, 1917

"THE LOVE THAT LOVES A SCARLET COAT"

TUCKED away in a comment on the military situation which recently appeared in the columns of The Tech, we find the illuminating statement, "It must be remembered that Institute men who go into the military field will not be given much greater responsibilities than they would have if they took positions in civil life." We think this remark worth repeating because of the obvious inference, which was not drawn when first the comment was made: since responsibilities generally are a measure of service, a Technology man during wartime should be able to serve the nation in a civil capacity as effectively as in a military one; other things, that is, being equal. So many influences act at this time to push undergraduates indiscriminately into military service that it is difficult for anyone to take sensible account of his capacities; but it should be remembered that without such a careful estimate little real service is possible. Those who are led in the excitement of the moment to abandon the courses in industrial training which can in time fit them for their greatest usefulness, are capable only of emotionalism, not patriotism.

Patriotism does not require that on the advent of war everyone abandon common sense; it does not make it a stigma or a badge of dishonor to be physically able and unmaimed, and yet out of uniform. The cry of coward at a time like this is liable to make impressionable students look askance on many forms of service, merely because they do not entail being within range of the enemy's gunfire. Physical and moral incompetents are not capable of attending to the industrial work required behind the lines in modern warfare, any more than cripples can be depended on to hold the firing line.

The War Preparedness Committee has none of the views of a recruiting station in mind, and it is no part of its program to advance the old-time glamor of the uniform as an argument for military enlistment in a war which resolves itself into grim and earnest business. The Faculty, as agents to educate for the benefit of the State, and the State itself, look on Technology men as engineers, with allegiance and duties in the line of their service; and the undergraduate who, from a fancied idea of honor, deprives the State of a good engineer to make a mediocre or worthless soldier, has forgotten his allegiance and failed in his first duty.

There will be two issues of The Tech next week, the first of which will be published on Tuesday.

R. R. R. BOOKS FOR APRIL

This month three new books have been added to the series under the title of "Recommended Recreational Reading," which is to form the basis of the Walker Memorial Library. M. C. Brush '01, president of the Boston Electric Co., recommended "Drink and Be Sober" and "That Something" by W. W. Woodbridge. W. J. Blood of Stone and Webster Co. named Rudyard Kipling's latest book, "The Fringes of the Fleet," as one of his best pieces of work. It vividly portrays life on a submarine and gives a most interesting description of the marine battle of Jutland. These books may be obtained in the General Library.

TECHNIQUE BAND WILL BLOW AT JUNIOR WEEK FROLIC

Contrary to notices and announcements that have been given out of late, the Technique Rush of next Tuesday will be featured by the customary Technique Band. The personnel of this year's musical organization has not yet been completed as the management wishes all men who want to play to have a fair tryout. All men who would like to play with the band at the Rush should report to Bandmaster O'Daly in Room 1-151 at 4.30 o'clock on Friday afternoon. The instruments desired are cornets, flutes, clarinets, French and base horns, and drums. Instruments will be provided for those who cannot bring their own.

1919 TECHNIQUE ART COMPETITION EXTENDED

Owing to the fact that very little work was handed in for the 1919 Technique, the committee in charge of the Art Competition has decided to extend the time in which drawings will be due. The committee feels that better results can be obtained during this time, inasmuch as the candidates will have Junior Week in which to work. The following work must be submitted:

First, a theme of not more than 300 words, preferably typewritten and on one side of the paper only. This must contain a full statement of the candidate's art experience before and after entering the Institute, and his ideas for running the art department of next year's Technique. The theme may be illustrated by sketches and should state whether the candidate would feature any particular section of the book; second, a color drawing, size 9 1-2 x 13 1-2 inches, for the "Fraternity Section" of the book; third a wash drawing in black and white; fourth, three pen and ink drawings for zine headings, size 2 x 9 inches, to be selected from the following list: 1. Tech Show, 2. Field Day, 3. Cleofan, 4. Dormitories, 5. Aero Club, 6. Engineer Unit, 7. Institute Committee, 8. Commencement.

All drawings submitted must be of a finished character and must be mounted on cardboard in order that they may be incorporated in the book, should their merit warrant it. Anyone wishing further information may obtain it from W. B. Shippey, D. C. Sanford, or F. W. Boley. These drawings are due not later than May 1. This work is to be left at the Tech Office.

PROFESSOR MILLER ADVISES COURSE II MEN TO STAND PAT

For the Present Greatest Service to Remain at Institute

Professor Miller, head of Course II, yesterday advised all Juniors in that course and in the option 2 of Course XV to remain at the Institute and complete their course. According to Professor Miller these men will be doing a far greater service to the country by remaining at the Institute than they could ever hope to do otherwise. There will be a great demand for mechanical engineers in the Ordnance Department and this demand exceeds the supply by far. Men will be needed in the arsenals such as Springfield and Watertown in order to take care of the extra work that will be imposed on the Ordnance Department.

Professor Miller also outlined the requirements for appointment to commissions in the Ordnance Officers' Reserve Corps. Commissions are issued for a period of five years, and no age limit apply to applicants. Members of the Corps are not subject to call in time of peace and shall when called for service hold the same rank in the regular army as they hold in the Corps. Those who are college graduates will be admitted on presentation of their diploma. A rigid physical examination, however, is required of all applicants. The officers of the Corps have the ranks of first lieutenant, captain and major with annual salaries of \$2000, \$2400 and \$3000, respectively; there is also an additional commutation to those who are not provided with quarters.

REGISTRAR HAS SAMPLE ARTILLERY CORPS EXAMS

Sample examination papers for candidates applying for appointment as Second Lieutenant in the Coast Artillery Corps may be seen on the Bulletin Board of the Information Office. WALTER HUMPHREYS, Registrar.



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 For short-hand notes or easy writing 3B-2B-B (medium soft) are popular.
 For sketching, general writing purposes, etc., HB-F-H-2H (medium) will prove desirable.
 For drafting, a medium hard pencil gives the best results and you'll like 3H-4H-5H-6H.
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GREAT STRIDES MADE IN CENTRAL STATION PRACTICE SAYS EXPERT

Charles Penrose Shows E. E. Society Development of Original Edison Plant by Comparative Lantern Slides

Charles Penrose, construction engineer of the Philadelphia Electric Co., spoke at the meeting of the Electrical Engineering Society Wednesday afternoon on the general subject of "American Central Stations." His talk was based on subject matter and was illustrated by an interesting set of slides prepared for the purpose of lectures before the various branch sections of the National Electric Light Association, the national organization of the American Central Station Companies.

Mr. Penrose brought out by means of geographical comparison the relative size of the electrical industry in this country, together with the various epochs that mark the progress in this field. By three industries only, Mr. Penrose showed, is the field of electricity surpassed, these being the businesses of food supply, of textiles, and of iron and steel.

A slide was shown of the first Edison Central Station, located at Appleton, Wis., the capacity of which was 250 lamps or about 30 KW. The old Pearl Street Station in New York City, the first station of any importance, was also shown. This was placed in opera-

tion in 1882. The next step was the change over from fairly high belt drive to direct connected engines, the size of which was gradually increased along with the advent of compound and triple expansion machines.

This remained until the commercial introduction of the steam turbine about ten years ago. Since that time the most radical changes have been effected, the size of units being pushed up until there are now in operation units of 35,000 KW. rating; even larger units being contemplated. The steam consumption has been cut down from forty or fifty pounds per H. P. hour in the case of the real old types to about ten pounds in the best modern practice.

Another interesting fact brought out by Mr. Penrose was the reduction in the cost of light to the public in the face of the great rise in the price of practically all other commodities.

After the close of Mr. Penrose's talk President Gay of the society introduced Mr. W. H. Donley of the Philadelphia Electric Company. Mr. Donley's speech was relative to the details of the Cadet Engineer Course offered by his concern and of its position in the field of American Central Station Practice.

TO SEE AIRPLANE PLANT

(Continued from page 1)
 what previous experience they have had. Blanks may be obtained from any of the Aero Preparedness Committee which consists of the following men: E. P. Warner '17, chairman; J. C. Braislin '18, W. B. Ford '18, G. S. Murray '18 and C. H. Tavener '19.

The new course given by Mr. Klein of the graduate course in Aeronautical Engineering for the benefit of the members of the club who are undergraduates and want to take up aeronautics now, is being very well attended. Over sixty men were at the lecture given Monday and about seventy-five at the lecture yesterday. These lectures are given on Monday and Thursday afternoons from 5:00 to 6:00 o'clock in Room 3-270 and are open to all members of the club who care to attend them. No special preparation is required and the only condition imposed is that men who sign up for them must attend every lecture. Later on those taking this course will be given an examination by Mr. Godfrey Cabot and Mr. Stalling Burgess in order to pick those men who will attend the summer camp of the Massachusetts School for Naval Air Service. Both Mr. Cabot and Mr. Burgess are closely in touch with all the latest developments made in aeronautics, the former being president of the New England Aero Club while the latter is president of the Burgess Company of Marblehead, manufacturers of the Burgess Airplane.

TENNIS PRACTICE TO BEGIN

Regular Work to Start at Jarvis Field This Week

Although last Saturday's practice was stopped on account of the rain, regular work will probably start again this week at Jarvis Field. The meeting of tennis candidates today at 1.00 o'clock will also be held as scheduled.

According to the management, great interest has been aroused in tennis among the student body. At present over seventy men have signified their intention of competing for the team, and with many of last year's players back, together with the freshman material, a good team will be developed. In the number of points on the cup for which Bowdoin, Tufts, Williams, Trinity, Brown, Amherst and Wesleyan are competing, Technology has gained second place. Stuart, the runner-up in the intercollegiate last year, is back again and showing his regular form, while two men who were college champions in the West are at the institute this year.

Tennis courts at the back of the Walker Memorial will be constructed in time for use next Fall. It is planned to charge each player a nominal fee of ten cents an hour for the upkeep of the court, and from the experience of other colleges, this should be highly profitable, purely as a business proposition, to Technology.

JOHN RITCHIE JR. ON WHITE MTS.

(Continued from page 1)
 the Franconian Range, the Mount Washington Range, and the ranges on both sides of the Saco River. There are a number of deep ravines in these mountains, the chief one being Tuckerman's Gap.

"On account of the intense cold in these mountains, the club had to invent some special snow-shoes for the men to wear. In climbing the peaks, one has to carry all equipment on the back, as there are no kind of transportation facilities. The forests of the mountains have been slashed in a good many places by the lumbermen and the careless sportsman has caused many fires which have done much damage, marring especially the scenic beauty.

"The club has built over two hundred miles of paths and some of these are so long that half-way huts have been built upon many of the mountain sides. These are for the shelter of travelers who may be caught in storms while on a trip. The huts are all supplied with food and other supplies sealed in air-tight packages. So successful have these huts proven to be in the saving of lives of travelers that they have now been installed throughout the whole district."

Mr. Ritchie then turned to the discussion of the ravines between these mountains.

"The principle focus of the mountains," he said, "is Tuckerman's Ravine." It is in the form of a great curve eating its way back from the Mount Washington River. At the vertex there is a vertical descent of hundreds of feet. It was thought for a long time that these ravines were formed by the actions of great glaciers, but now the accepted theory is that it is the work of small local glaciers.

"There are two courses for the formation of these ravines; one is the mechanical action, that is, the tearing down action of the ice; second is the local action where the ice and the rock wall come in contact.

"In the daytime the sun heats the rock and melts the ice and then at night it freezes again. This action of the water alternately freezing and then thawing eats its way into the walls."

Mr. Ritchie illustrated his talk throughout with many slides, showing some splendid views taken both in winter and summer of Mount Munroe, Mount Washington, Mount Madison, and others. He also showed some very detailed contour maps.

MONTHLY OUT JUNIOR WEEK

The April issue of The Technology Monthly Engineering Journal will appear during Junior Week, and will contain an article on "The Federal Valuation of Railroads" by the president of the Delaware and Hudson R. R. The Electric Transmission of the Owen Magnetic Automobile will also be discussed in this issue. There is an article on "The New Course at Technology" which deals with the progress at the Institute in the direction of civic

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development. "Crew Work at Technology" is the title of an article upon the progress and possibilities of the sport here at the Institute. An article explaining the use of watchman's time detectors, and cartoons by H. F. Van Zelm '19 and R. K. Wells '19 will complete the issue. The new board of directors will also be announced.

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MALDEN STUDENTS HEAR MUSICAL CLUBS CONCERT

The Combined Musical Clubs gave a concert on Wednesday evening in the Cadet's Armory in Malden. The entertainment was given under the auspices of Fraternities and Sororities of Malden High School. The audience was unusually large, and the clubs being up to their usual standard, it was a very appreciative and enthusiastic crowd. The concert consisted of usual numbers by the three clubs and solos by C. T. Proctor '20, C. L. Eksbergian '20 and F. S. Owen '20. Lancing followed the musical program until 2.00 o'clock.

90,000 LOAVES A DAY

(Continued from page 1)
ter it is baked, it is cooled and packed by machinery. The present output of the plant is about ninety thousand loaves per day consisting of some twenty-five sizes and varieties, but if needed this could easily be doubled. About fifty automobiles and wagons are used in delivering the bread to the local market and to the various depots, a very large supply of that shipped out of town going to Maine and New Hampshire.

One of the greatest items of expense in the process of bread making is that of pans, the average life of a good tin pan being only a few months. It is the problem of the chemist to produce an inexpensive pan which will not injure the bread and at the same time withstand the temperature and rough handling which they must necessarily undergo.

JUNIOR USHERS AT SHOW

Juniors are to be given an opportunity this year to usher at the Boston performances of the Tech Show. All those who apply before the desired number are obtained will act in this capacity. Dress suits are to be worn in the evening. Some sort of compensation is being considered, and details will be given those who apply at the Tech Show office in Room 1-080.

SUCCESS OF FRESHMAN PROM NOW ASSURED

Dance Orders May Be Obtained Saturday and Monday in Caf—Final Payments Due

The support already given the Freshman Prom has been sufficient to assure its success and all final arrangements have been completed. Walter Johnson's Orchestra has been secured to furnish the music. The dance orders are now ready and may be obtained in the Caf tomorrow from 8.30 to 9.00 in the morning, and Monday from 8.30 until 9.00 in the morning and from 1.00 until 2.00 in the afternoon upon showing receipt stub. The final payments on the tickets are now due.

ENGINEER CORPS GETS REAL MILITARY WORK

The Engineer Corps in their work this week have been constructing a double lock spar bridge with gabions and fuscines. Today the Bridge section will construct barrel rafts, boats and pontoons. The reconnaissance section will have reconnaissance practice and flat topography. The fortification section will construct entrenchments.

On Saturday, April 28, the entire corps will go into camp at Bedford, Mass., in order to obtain real military camp life. It is necessary for the men to provide their own blankets for sleeping purposes. Men going on the trip are required to make a deposit of \$1.00 not later than April 26 with First Sergeant F. A. Washburn.

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WORK UPON FLAGPOLES BEGUN

First Piles Driven Yesterday in Du Pont Court

The first actual work upon the two flagpoles donated by the classes of 1885 and 1892 to the Institute for the entrances of Du Pont and Lowell Courts was begun yesterday with the driving of piles for supporting the limestone foundations. Up to then, action had been confined to moving a piledriver from the construction on the President's house to a proper position at the entrance of Du Pont Court, where the first piles were driven. Sixteen thirty-foot wooden piles arranged in four sets of four piles at the corners of a square will support each foundation. Upon the piling will be placed the octagonal bases of Indiana limestone; these are in the form of benches which back the poles, being surmounted by ornamental collars of bronze. From the collars will rise the hundred foot poles. The entire set of piles have been driven in Du Pont Court; work upon the stone work will proceed as soon as the piles in Lowell Court have been sunk. The entire structures for both courts will be completed by June 1, when they will be unveiled and formally presented to the Institute.

LOST ARTICLES

The following articles have been found and may be obtained in Room 3-005 upon proper identification:

Two brown caps, black and red silk scarf, black and blue silk scarf, black and white silk scarf, gray glove, gray cap, drill coat, bundle of clothing found in Room 3-404, six umbrellas, pair of rubbers, jackknife, two Ingersoll Yankee watches, Ingersoll watch found in Building 1 drawing room, pair of eyeglasses, pearl handled knife, gold cuff link, notebook, cardboard covers, two

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black loose leaf notebooks, copy "Precision of Measurements," copy "Notes on Railroad Engineering," copy "A Modern Symposium," copy "American Government and Politics," copy "Things a Boy Should Know About Wireless."

RIFLE CLUB TRIPS POSTPONED

Sign-ups for Saturday's Trip Due Friday Night

The trip that the Rifle Club was to have taken to the Walnut Hill range on Tuesday has been postponed on account of the bad weather. Thursday's trip was also called off because no one signed for it. The trip scheduled for Saturday will be made, however. Only twenty men can be taken on this trip so that if more than that number sign-up the twenty who have shot least will be the ones to go. The final list will be posted on the door of the Rifle Club office in the basement of Building 1 Saturday morning. There will be an officer of the club at the office from 1.00 to 2.00 Saturday to issue guns and ammunition to those who are to take the trip. The fare to the range and return

is twenty-five cents, which will be collected at the time when the guns are given out. Those who take the trip will meet at the South Station at the gate of Track 19 at five minutes before two.



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