PROFESSOR RILEY TO SPEAK ON AVIATION
Illustrated Lecture To Be Given At Engineer's Club.

This evening at eight o'clock there will be a meeting of the American Society of Mechanical Engineers in the Engineer's Club Hall on Arlington street. Members of the Mechanical Engineering Society of the Institute have been invited to attend. Joseph C. Riley, Associate Professor of Heat Engineering at Technology Institute have been invited to attend.

Mr. Albert A. Merrill will deliver an address on some experiments recently conducted with a new type of stable biplane and Mr. Greely S. Curtis of the Burgess Company of Marblehead will talk on some exceptions in aviation during the past year. Both of these lectures will be illustrated.

EXAM ISSUE FRIDAY
Special Section Of The Tech Giving Schedule.

The Tech is to publish a special issue Friday, containing the Mid-year exam schedule. The edition will be out at nine o'clock as usual, and will be on sale at all the regular stands. The paper will sell for five cents cash, and to those subscribing holding coupon books, for one coupon. The coupon, however, will not be recognized if they are already detached from the book, and they must be presented with the book. No issues will be sold if the coupon book is not presented.

The Tech calls attention to the fact that the exam schedule to be published is only provisional and tentative, and that it is not at all improbable that changes in the schedule will eventually be made in the final schedule issued by the Registrar.

TECH SHOW MUSIC
Trials for the Tech Show Music Committee will be held Monday and Tuesday afternoon. The final selection will be completed on Thursday afternoon. Twenty men have submitted compositions. One of the pieces, a waltz, is to be featured, as it is considered exceptionally good. It is expected that every piece will be ready for the Tech Show Orchestra immediately after the mid-year vacation.

ALUMNI ASSOCIATION BANQUET SATURDAY
Hotel Somerset Chosen For The Annual Event—Prominent Men As Speakers.

Secretary Walter Humphreys of the Alumni Association announces the date of the annual banquet to be Saturday, Jan. 6th, at the place, Hotel Somerset, and the hour, seven in the evening. State, country, and an (Continued on Page Two)

WILLIAM H. TAFT.

M. I. T. A. A. MEETING HELD LAST EVENING
Amendment To Constitution—Fletcher Elected To Advisory Council.

A regular meeting of the M. I. T. A. A. was held yesterday afternoon at five o'clock in Room 8, Eng. C. The section regarding captains of teams was amended to read: The captain of the Cross-Country Team shall be elected two weeks after the I. C. A. A. A. run and shall be elected by those men constituting the team in the I. C. A. A. A. and N. B. D. I. A. meets. Reports were read and accepted from the Track and Field teams. It was voted that the Athletic Association consider the sending of a four-mile relay team to the I. C. A. A. A. Indoor Meet, provided the team show sufficient quality to insure competition. The resignation of Harold B. Crowell from the Advisory Council was accepted, and Ralph L. Fletcher was elected to fill the vacancy. It was voted not to allow the records equaled in the 100-yard and 220-yard dashes in the N. E.

(Continued on Page Six)

WANDERING GREEKS
All Greek letter fraternity men from other colleges who are attending the Institute are requested to leave their names, fraternity and college at the gates for the Society Editor of Technique 1916. As Technique is now going to press in part it is desired that they attend the matter as soon as possible.

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(Continued on Page Six)

TECHNICAL MUSIC
Photographs Of Organizations Taken By Next Week.

Arrangements have been made with Notman for taking photographs of the following organizations at the dates given at 1.10 p.m. If these appointments cannot be kept, H. T. Freeman should be notified in order that he may make other arrangements with the photographer. Freeman also desires that the managers or secretaries of these organizations should see that everyone concerned be given due notice.

Junior Prom Committee, Wednesday, January 6, 1915.
M. I. T. A. A., Friday, January 8, 1915.
M. I. T. A. A., Saturday, January 10, 1915.
T. C. A. Board, Monday, January 11, 1915.
T. C. A. Board, Tuesday, January 12, 1915.
T. C. A. Board, Wednesday, January 13, 1915.
T. C. A. Board, Thursday, January 14, 1915.
T. C. A. Board, Friday, January 15, 1915.
T. C. A. Board, Saturday, January 16, 1915.

NOTICE TO FRESHMEN
All freshmen who can play a snare drum, fife, or bugle, are requested to speak to the musician at drill on the next drill day. It is expected, therefore, that they will be excused from drill. No bass drummers need apply.

TECH SHOW ORCHESTRA TRIALS TO BE HELD
Mr. William Howard To Conduct Orchestra Again This Year.

The tryouts for the Tech Show Orchestra are to be held at four o'clock tomorrow afternoon, in the Union. Mr. William Howard, who directed the Tech Show orchestra, has signed a contract for this year, and will have charge of this first competition.

The Show Orchestra will play at each production of "Getting A-Cross." (Continued on Page Six)

CONCERT AND DANCE
Tickets Selling Rapidly For Friday's Event.

Next Friday evening, the Combined Musical Clubs and the Institute Committee will give a Concert and Dance. The concert is to be held in Huntington Hall from eight to nine forty-five, and will be followed by dancing, which will begin at ten o'clock, both upstairs and downstairs in the Union.

The advance sale of tickets has been heavy, and from all indications, the supply will soon be exhausted. While they last, they may be obtained at the Cage, or from members of the Musical Clubs or of the Institute Committee.

C. E. SOCIETY
The list of members of the Civil Engineering Society is to be handed in to Technique 1916 by Jan. 20, so all those wishing their names on the list must have their dues paid by Jan. 18.

CALENDAR

Wednesday, January 6, 1915.
7:00 Officers' Club—Union.
8:00 Musical Clubs Concert and Dance, Huntington Hall, Room B., Union.

Thursday, January 7, 1915.
1:30 News Men Meet—Lower Office.
4:00 Civil Engineering Society Meets—Engineering Hall.
4:00—Tech Show Orchestra Tryouts—Union.
5:00 Football Practice—Arena.
6:30 Electrical Engineering Society Annual Dinner.
8:00 Novice Team vs. B. Y. M. C. A. Seconds.

Friday, January 8, 1915.
1:10 M. I. T. A. A. Photography for Technique, Nathan's, 4 Park St.
8:00 Musical Clubs Concert and Dance, Huntington Hall, Room B., Union.
It is estimated only twelve deaths have occurred during the season of 1914 as a direct result of football. All of those injured who died were under twenty years of age. The causes of the fatalities were responsible. Tackling was responsible for four: heart-failure and blood poisoning for two; blows on the head killed two; three were killed in scrimmage, and one died after a head on collision.

The University of Illinois has sent over five thousand articles of clothing to refugees in the European war.

Actions by two college bodies indicative of good spirit have received notice in the newspapers recently. The students of Stevens Institute demanded the removal of their own coach, because the latter in the game with N. Y. U. had sent back into the game, disguised by plasters and a different sweater, a guard who had been ruled out by a referee in an earlier period. The Fordham undergraduates voted the score of their game with Vermont, 7 to 6, despite the fact that the referee had declared that Captain Wymard of Fordham kicked the goal after a touch down by his own team. A misunderstanding concerning the ruling of the officials was responsible for the controversy, but the majority of the New York spectators saw that the ball did not go between the goal posts.
THE WAR OF NATIONS
AND THE INSTITUTE
Technology Feels No Necessity
—Supplies On Hand For
Present Year.

Technology, while for removed from the scene of the present European conflict, is affected by existing conditions to a certain extent. There is, to be sure, no direct falling off in the number of students attending; on the contrary, there is an increase over last year. There are, however, some students who are not in attendance this year because of the war and a few members of the teaching staff are still engaged at the front. The direct influence has to do with institute finances and certain classes of supplies.

In the first case business conditions have affected certain manufactures to such a degree that some well-to-do students, who rarely are in need, are feeling the financial stringency. In one or two southern colleges wages and house receipts for tuition are accepted as tuition payment. At Technology it has been found that but few students are greatly financially embarrassed and yet Bursar Ford has seen fit to be lenient in the matter of payments to those students whose homes are abroad and others whose capital is low because of lack of remittances. Students with foreign connections find it hard to obtain funds because the lines of communication are cut off or very uncertain. Another reason why it is hard to get money from Europe is that rates of exchange are now quite high. One student recently received only $230 out of $300, the transfer being made from Russia.

As another direct result of the cutting off of communication, certain chemical supplies and text books from Germany have been found wanting. Some time ago this fact was made evident when the German department requested that all text books held by those who had already used them should be passed along to the next class. In the matter of chemical supplies a shortage of flasks is particularly felt. The Institute purchasing agent, Mr. A. G. Melcher, was ordered some months ago and with enough supplies on hand to complete the school year, little worry is evident. Shipments from Rotterdam are all that are coming through but it is almost certain that enough will reach America from Germany to satisfy the needs of the chemical department. The price of chemicals has not materially increased. Copper and nickel are all that have shown a marked advance, others remaining at the usual prices.

The greatest effect is that in regard to the new Technology. In his recent report to the Corporation President MacLeish states that some gifts due to the Institute are withheld for the present because of the depression in business conditions and also that the real estate stagnation has in a large measure cut off sums of money that might very materially add to the endowment of the school buildings. Unless the war conditions for too long a time, however, these adverse conditions will adjust themselves so as to produce no permanent ill effects on the institute.

RELAY TEAM TRIALS
TO BE HELD TODAY

Competition Keen — Guesting
And Colley Make The
Best Times.

Time trials for the 390-yard relay team which will meet Harvard at the Coast Artillery games on Jan. 16th, will be held at the gym this afternoon, and competition for the team is so close that even Coach Kandy refuses to make any statement as to the probable makeup of the team.

One man is sure of his place, Carl Guething is running far faster than any man who has represented the Institute indoors at that distance for several years. In addition to being the fastest man on the squad, he has the advantage of being a big, strong runner and a head man to pass on an indoor track.

Up to the present Bill Colley has been running second man, covering the distance about a second slower than Guething. Although Colley is better known throughout New England as a broad jumper and all-around athlete, he made a name for himself at Holy Cross as a member of their fast mile relay.

The other two places on the team seem to be a toss-up with "Kem" Deen, Bill Adams, Frank O'Hara, Charlie Reed, Tom Barry and "Jeff" Reel all in the race. O'Hara, when in condition is easily the fastest of the lot, but owing to a death in his family he was unable to do any running during the fall, and is just getting into condition. Although he may not show up any too strongly this afternoon, he is practically certain to be

(Continued on Page Five)

KEOKUK DAM ADDRESS

Mr. H. L. Cooper To Speak Before Civil Engineers.

On Thursday at 4:00 p.m., Mr. H. L. Cooper, the chief engineer of the Keokuk Dam Project, is to speak before the Civil Engineering Society to 11 Engineering B.

Mr. Cooper is one of the most prominent engineers in the country, and has carried out other engineering projects besides the recent Keokuk Dam. He is the designer of the largest water tunnels ever built.

He has some very good lantern slides which it is hoped he will be able to show at the meeting. The society extends an invitation to all to be present.

MUSICAL CLUBS

Concert At Simmons—Abrams
Reviews Midwinter Trip.

The Musical Club will give a concert next Saturday evening, beginning at 8:30, at Simmons College. The affair will take place in the Music Hall, and will be followed by a dance; it is given under the auspices of the Ohio Club.

General Manager Abrams of the Musical Club has gone over the route to be covered in the midwinter trip, and reports conditions very favorable in all the cities he visited.

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| The Smooth Writing Pen |
| A. D. Maslaichian |
| 600 Boylston St. |

Continued on Page Five
TECH UNION DINING ROOM.
The attention of Students is directed to the list of COMBINATION BREAKFASTS and to the attractive SUPPERS served at the Union.

JANUARY SALE
Kodaks and Cameras at greatly reduced prices. These goods are slightly shop-worn, but in perfect condition.

COME EARLY
E. F. MAHADY COMPANY
OPTICAL & PHOTOGRAPHIC SUPPLIES.

INSTITUTE ACQUIRES BALDWIN LIBRARY
Old Books Of Loammi Baldwin On Civil and Mechanical Engineering.

A very important acquisition by the Library of the Institute is the Baldwin Engineering Library, which has been deposited with the Institute by the Woburn Public Library. The Baldwin Library includes rare tracts in addition to their intrinsic value. There are among them volumes that belonged to the original Loammi Baldwin of Woburn, "the father of Civil Engineering in America," a schoolmate of Count Rumford, and a friend of George Washington. The original Baldwin was related to every engineering project of consequence in the country.

Loammi, his son, who carried on his father's great works, was the engineer of the Milldam in Boston, and of the great Union Canal in Pennsylvania, and he was the authority delegated by Massachusetts to report on the possibility of a canal from Boston to the Hudson, in connection with which the idea of piercing the Hoosac Mountains with a tunnel was first broached. It was to be a tunnel for the canal, for railways had not been started at that date. The younger Loammi was consulted on the building of dry docks at Charleston and Norfolk, and was foremost adviser on the Bunker Hill Monument. In a journey to Europe he began the collection of books by obtaining all the engineering and scientific books available in 1825. Two brothers, James P. and George R., added to the library.

The library came by inheritance to Mrs. C. R. Griffin, daughter of George H. Baldwin, who, mindful of the danger to the collection from a fire in the same house, presented it to the Woburn Public Library. The gift was on the most liberal terms; the books were to be kept together as one collection, they were to be accessible to all inhabitants of Woburn, they were to have no lettering on the outside other than that which produced the Baldwin arms to be used for the book plate and in case the original owner placed there, the Baldwin arms were to be used for the book plate and in case the Woburn Library was ever given up the library was to become the property of the Institute.

It seemed to Mr. Evans, librarian at Woburn that the best interests of the library would be served by depositing the collection with Technology—the more so since the owners had felt no friendly to the school. The present arrangement was there made, the library remaining the property of the Woburn institution, but in the custody of Technology, which looks after its cataloguing and care and places the volumes at the service of the students. Woburn at the same time reserves for itself the right always to have free use of the library.

The Baldwin Library is a collection of 1500 volumes in all languages, representing the limited editions of olden times. It is now

(Continued on Page Five)

STUDENT ENGINEERS MAKING PLANT TEST
Annual Boiler Efficiency And Fuel Consumption Test Of M. I. T. Plant.

Monday morning the annual boiler and turbine tests started in full sway. This "plant test" lasts until Saturday morning at eight o'clock, and is carried on by members of Courses Six, Ten and Thirteen. During these tests the men will work in eight-hour shifts, which will be from 8 a.m. to 4 p.m., 4 p.m. to midnight, and midnight to 8 a.m.

Each man has his own particular station, and performs the duties of this post and no other. Readings are taken from which will be calculated the efficiency of the plant as well as the consumption of fuel and the energy lost in the several divisions of the plant.

STUDENT ENGINEERS
Fuel Consumption Test

FACULTY NOTICE
Third year Physics Heat problems will be returned in the basement of Walker Building for our usual handing in Jan. 6th.

Professor C. L. NORTON.
RELAY TEAM
(Continued from Page Three)
found tooing the mark against Harvard.
Barry ran on last year's team and, when
in condition as a fast indoor man. Owing
to the fact that he has been training
only two weeks, it is
to say whether he will be able
to get down to weight for the final
trials. "Kem" Dean was a member
of the team last year, and has been
training consistently all fall. Adams
was a member of the team two years
ago, and although running outside
of his distance is able to negotiate
the 300 in better than 50 seconds.
Charlie Reed and "Jeff" Read spe-
died in broad jumping last spring,
but both have come out strong for
the relay. Reed ran second to Tom
Jackson in the quarter mile during
the 1913 season, and has been coming
fast the last two weeks.
The team when picked should
be one of the best which has ever rep-
resented the Institute. In addition
to being fast, the team will be com-
pared entirely of big, rangy men,
who pass on an indoor track, and with
the strength to pull them through a
hard season.

NOVICE TEAM PICKED
Matmen Are Praticing For First
Second Team Meet.

The novel team to represent the
Institute in the meet Thursday with
the B. Y. M. C. A. second wrestling
team when picked should be
novice team to represent the

M. I. T. FORUM
Attempt Will Be Made To Inter-
st Non-Socialists.

Yesterday's meeting of the M. I. T.
Forum was occupied with details of
the club's organization. The annual
dues were fixed at twenty-five cents.

FINE ARTS TALK

On next Sunday afternoon, Pro-

ressor Henry L. Seaver will speak
on "A Portrait Bust of Madame du
Berry" at 2:45, in the Department
of Western Art at the Museum of
Fine Arts.
Stone & Webster
CHALCER A. STONE '91
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SHOW ORCHESTRA
(Continued from Page One)

and all of the members will be taken on each out of town trip. It is to be made up entirely of undergraduates, as it was shown last year that there is sufficient musical ability in Technology to warrant the exclusion of professionals.

Men who play any instrument are requested to come out and try for a position. The Show will furnish instruments if necessary for all men who are retained. They need not be brought to the meeting tomorrow afternoon.

PROF. BRADLEY WEDS

Professor H. C. Bradley is receiving congratulations for his marriage during the Christmas holidays to Miss S. S. Steere of Amesbury. Professor Bradley was a graduate of the Institute in the class of 1891, and has been teaching Drawing and Descriptive Geometry at Technology since 1897.

Quick on the Trigger
With a Snap-Shot Eye

The crack trapshooter has to have steady nerves and muscles absolutely under control—always ready to swing his gun into place and bring down his clay pigeon. This means trained, not to the minute, but to the split-second.

We present the names of some famous crack shots. They like to smoke, but take no chances on a tobacco that might "throw them off." They use Tuxedo because it is mild, relaxing, steadfast—strictly pure.

Tuxedo
The Perfect Tobacco for Pipe and Cigarette

Tuxedo is made of only the finest, choicest, selected leaves of perfectly aged Burley tobacco. It is made by the original "Tuxedo Process" which removes every trace of bite and sting and develops all the wonderful mildness, fragrance and flavor of the Burley Leaf in a way that no other brand of tobacco has ever successfully imitated.

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A. N. ROBB

M. I. T. A. A.
(Continued from Page One)

I. A. A. Meet, May, 1914, owing to the favorable wind, Contracts for games between the Basket-Ball Teams of M. I. T. and Wesleyan, to be played at Wesleyan, and with the New Hampshire State College team, to be played at Durham, N. H., were accepted. Irving Young, Acting Assistant Manager of the Hockey Team. The meeting was then adjourned to Tuesday, Jan. 12th.

TECHNOLOGY MONTHLY

The next number of the Technology Monthly will be out January 18 and will contain a number of articles by undergraduates.

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