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## Combined Clubs Present Musical Concert Sunday

Miss Elizabeth Travis, Pianist, Will Play Concerto In D Major By Haydn

Selections By Franck And Bach Are Sung By Glee Club Beethoven's Second Symphony Will Be Featured By Orchestra

Sponsored by the Institute the Combined Musical Clubs will present their second Sunday concert at 3:30 o'clock this Sunday afternoon, April 7 in the Main Hall of Walker Memorial.

In previous years the Sunday concerts have not been open to the general public, but because of the numerous requests received from outsiders, this year the concert will be to all who wish to attend.

Miss Elizabeth Travis, the guest artist, is well known in Boston and has appeared with the M. J. T. Symphony Orchestra in previous years. She is a graduate of the New England Conservatory of Music, where she studied with Charles F. Dennee. In a contest judged by Serge Koussevitzky, conductor of the Boston Symphony Orchestra, Harold Bauer, and Rudolph Ganz, Miss Travis was awarded the Mason and Hamlin award. Since then she has studied abroad with Arthur Schnabel.

The Glee Club distinguished itself recently by winning fourth place in (Continued on Page 6) Musical Clubs

## Prominent College And Government Men To Discuss Careers

Round Table Conference Begins At Harvard University On Saturday

A Student Conference on Careers in Government will begin today at the Phillips Brooks House, Harvard Yard. Prominent government and college men are scheduled to take part.

This evening at 8 o'clock, Charles P. Howard, Chairman of the Commonwealth of Massachusetts Commission of Administration and Finance, will discuss "Opportunities in State Administration." Vinton Chapin, Assistant to the Under Secretary of State, will speak on "The Diplomatic Service." A. Chester Hanford, Dean of Harvard College will preside.

(Continued on Page 8) Conference

## Dean Vannevar Bush, Guest Speaker At Graduate Students Weekly Dinner

On Wednesday evening the weekly dinner of the Graduate House was held at 6:00 P. M. in the North Hall of Walker Memorial. The speaker of the evening was Dean Vannevar Bush, vice-president of the Institute and a member of the class of '16. Other guests present included President K. T. Compton and Professor James R. Jackson of the Department of Marine Engineering.

For the subject of his talk Dean Bush had chosen "Developments in Calculating Machines" whose early history and gradual evolution he described and traced up to the present. The speaker pointed out how the computing machines in various degrees of complexity and perfection have been used for many years and how it has been the dream of such prominent mathematicians as Liebnitz that eventually all mathematics might be handled by machinery. Attention was

### Transportation Will Be Offered Students by T.C.A.

Technology students who wish to go home for spring vacations will again be offered the customary "Passenger-Driver" Service of the Technology Christian Association. Names of students who are driving home or who wish to be driven home will be taken at the T.C.A. office, and anyone so inclined may see these lists. Men are requested to send in or leave their names at the office as soon as possible so that all men may be taken care of.

## Freshmen Complete Plans For Dance

### Prefer Dates Of Light Brown Hair, Five-Foot-Three; No Red Heads

"Anything but a red head" one student told the freshman date bureau, established in connection with the freshman dance, which will be held tonight in the Main Hall of Walker.

From an average taken of the individual requirements, girls 5 ft. 8 in. with light brown hair, wearing a 4d shoe seem to be preferable.

Music for the affair tonight will be provided by an eleven piece orchestra under the direction of Jack Francis. Vocal selections will be rendered by Miss Muriel Lane who became popular while with Jack Marchard. As an added attraction the Dance Committee has succeeded in engaging seven year old Betty Lang who will sing a few numbers.

The orchestra is well known in Boston and vicinity. It played regularly at Bal a L'Air last summer and was also featured at many private functions.

Chaperones include Dean and Mrs. Thomas P. Pitre, Prof. and Mrs. Leicester F. Hamilton and Mrs. James R. Jack.

Admission is \$1.35 per couple.

## Livermore Speaks At Mining Group Meeting

### Elections Announced; Price Heads Executive Group

Coffee brewed in distilling flasks, and chowder cooked on the hot plate were served last Monday night at a meeting of the Technology Mining Society in the fire metallurgy laboratory.

Mr. Robert Livermore, prominent consulting mining engineer, as guest speaker, told of his experiences in mining and engineering. This meeting was held in conjunction with the Bos-

(Continued on Page 6) Mining

Editor's Note: The Tech keenly regrets the error made in the anti-war article in the last issue. We hope that the statement herewith printed will serve to correct the error.

April 2, 1935

## Tucker Speaks At Tech Union Tuesday Night

### Riley Of Cotton Manufacturers Association Will Be Other Speaker

### Subject Economic Nationalism

Economic Nationalism, the question of whether or not the United States should "stay in her own back yard" will be discussed at the last meeting this year of the Tech Union, Tuesday evening at 7:30 o'clock in Room 6-120. The speakers who will introduce the subject, Professor Donald S. Tucker of the Economics Department, and Mr. John J. Riley of the National Association of Cotton Manufacturers are qualified to speak by virtue of long contact with the question. Contrary to the usual custom, there will be no student speakers.

Professor Tucker has been associated with the Economics Department of Technology for fourteen years, and is the author of several works on economics. He will uphold the theory of economic internationalism. Mr. Riley will speak on a protective tariff from the viewpoint of the manufacturer. As usual, the meeting will be open to all students. At the last discussion, over a hundred men were present.

As those who have attended previous meetings of the Union will remember, it is the custom for the chairman to ask the audience to arrange itself on different sides of the room, corresponding to their opinions on the question. This practice will be continued at the coming meeting. By this means, it is possible to obtain valuable sidelights on public opinion by observing the results of these "votes".

This last meeting of the year marks the climax of a series of interesting and popular discussions that were instituted largely through the efforts of Mr. Theodore Smith, of the English Department. The Union, modeled after similar organizations in English Universities, has proved very popular, and will very probably be continued next year.

## Correction

Editor's Note: The Tech keenly regrets the error made in the anti-war article in the last issue. We hope that the statement herewith printed will serve to correct the error.

Editor, The Tech,  
M. I. T.

Dear Sir:

In view of the article in The Tech on Tuesday, April 2nd, regarding my alleged statement to representatives of the Anti-War Strike Committee, I would be pleased if you would publish the following correction.

My interview was with Mr. Robert Kennett, member of the National Student League. In answer to his request that classes be dismissed between eleven and twelve o'clock on Friday, April 12th, I told Mr. Kennett that, if he would send to me or to Dean Lobdell a request for such action with a statement of the objectives, proposed nature of the program, and names of speakers, I would present the request to the faculty at its meeting on the preceding Wednesday, April 10th. He then asked if I would speak at the meeting, to which I replied that I would, if my engagements permitted. This tentative acceptance was naturally dependent upon favorable faculty action on a request to dismiss classes. I should not want the statement in The Tech to leave the implication that I would partake in a meeting called as a "strike" in opposition to regular scheduled Institute exercises.

Very sincerely yours,

(Signed) KARL T. COMPTON,

### Freshman Hobbies Will Be Displayed At Open House

Opportunities for all freshmen who wish to display their hobbies are offered in the Open House Day program this year. All those interested in this activity should attend a meeting to be held at 5 o'clock on Friday, April 5, in Room 5-225, where Francis W. Hagerty, '38, chairman of the Freshman Hobby Committee will interview personally all those wishing to participate.

## Nominations For Spring Elections Due Wednesday

Each Class Nominates Officers, Two Institute Committee Delegates

Candidates Will Be Allowed To Hold Rallies On Grounds

Electioneering At Polls And Voting Blocks Barred By New Rules

Nominations for the spring class elections must be placed in the locked box in the Information Office between the hours of 9 A. M. on Wednesday, April 10 and 1 P. M. on Thursday, April 11, to be accepted. Candidates for the offices of President, Vice-President, Secretary-Treasurer, and two delegates to the Institute Committee are to be nominated from each class.

In accordance with the amended Constitution, the following new regulations will take effect:

Nominees are requested, but not required, to submit to the Elections Committee the following material along with their nominations:

1. Cumulative rating.
2. Residential group.
3. Activity record at M. I. T. (tabular form).
4. A full face photograph of the standard dimensions (4 inches by 5 inches).

Candidates shall be allowed to hold rallies on the Institute grounds and to indulge in other forms of electioneering, subject to the approval of the (Continued on Page 5) Elections

## Addresses Men On Open House

### Dean Of Engineering Speaks On Position Of Freshmen On May 4

Development of the qualities of leadership was the subject chosen by Dr. Vannevar Bush, Vice-President of the Institute and Dean of Engineering, in his address to the freshman class Wednesday afternoon, April 3, in Room 10-250.

### Wider Aspects

Speaking in connection with Open House, Dr. Bush first explained the part to be played by the freshmen, and then went on to the wider aspects of the subject.

Open House is a student activity, he said, which serves to make the Institute better known both to its neighbors and those from other sections of the country. It is through activities of this type, he said, that Technology receives its advertisement, and is enabled to attract students fitted to technological development.

### The Freshmen's Part

The part played by the freshmen in this undertaking is that of acting as guides for those who come as guests.

In developing the larger meaning of (Continued on Page 6) Bush

## Dean's List Names 659 Honor Students

### High Record Held By Freshmen Admitted Without Exams

The Institute last Tuesday made public the names of 659 students whose high records last semester entitle them to a place on the dean's list of undergraduate students of high scholastic standing. The list includes the names of 12 young women.

Institute officials disclosed that a particularly high average had been maintained by the large group of freshmen who entered the Institute

(Continued on Page 5) Dean's List

## Group Of Portraits Will Be Presented To Institute Today

Pictures Are Of Men Eminent In Science Or Industry; Artist Attends

The second group of portraits of men distinguished in science and technical industry, painted by Margaret Fitzhugh Browne and sponsored by Mr. and Mrs. Henry A. Wise Wood of New York, will be unveiled and presented to the Institute this afternoon.

The unveiling and presentation will take place at the president's home on Charles River Road, in connection with a reception by Dr. and Mrs. Karl T. Compton to the local members of the corporation, administrative officers, professors of the departments of

(Continued on Page 5) Portraits

## Activities Claim Misrepresentation Of Their Anti-War Strike Interests

Of the five student organizations listed by the student committee for the strike against war as being represented by the committee and having their names signed to the strike notices placed on the institute bulletin boards, four stated definitely last night that they had no official representative at the committee meeting.

The organizations who claim that they have been misrepresented are The Tech, the 5.15 Club, the Catholic Club, and the Chemical Society. These all state that any members of the organizations attended the strike committee meetings in an unofficial capacity.

Copeland C. MacAllister, '35, president of the Catholic Club, told how his club was misrepresented by Robert L. Kennett, G, chairman of the National Students' League. According to MacAllister, Kennett asked him if he would send a representative to the meetings of the strike committee not as an official representative but

was being done by the committee. MacAllister was unable to have anyone attend the meetings and was unable to attend himself. He said that as far as he knew, no representative of the Catholic Club, official or otherwise, was at any meeting of the strike committee.

Representing the 5.15 Club, George R. Robinson, president of the organization, tells a similar story. His statement follows:

"In order to correct any misunderstanding which may have arisen from the posters and circulars concerning the Anti-War Strike, may I say that there was no official delegate of the 5.15 Commuters' Club at any of the meetings of the strike committee.

"Also, there has been no official expression of opinion for or against the Anti-War Strike from the 5.15 Club. The fact that there are commuters on the strike committee does not indicate that the Commuters' Club is in favor of the proposed demonstration."

drawn to the difference between numerical and algebraic calculators and then to the various kinds of algebraic machines such as the Harmonic Analyzer and the machine to solve linear simultaneous equations as compared with the much more general machine, the Differential Analyzer, which is capable of solving not only ordinary equations but also differential equations.

The main object of the machines for solving mathematical problems is their application and aid to research so that investigators may be relieved of much laborious computation which may involve months of tedious labor by hand but which can be accomplished with the aid of machines in a few minutes. The accuracy of the modern Differential Analyzer is about three parts in ten thousand and its range is limited only by the number of components or units which go to make up (Continued on Page 6) Grad House



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MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
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## THE BEST APPROACH

### ANTI-WAR "STRIKE"

THE posters placed recently on Institute walls advertising the proposed anti-war strike on April 12 may have left the erroneous impression that The Tech, among other undergraduate organizations, was supporting the strike.

The Tech neither promised to send delegates to the meeting of the strike committee, nor did it pledge the support of the strike. While it is the duty of this paper to comment on and interpret student opinion, in the interest of maintaining a completely unbiased viewpoint, The Tech strives to keep free from allegiances of this sort.

We believe that the strike committee made a poor approach to the situation in putting red posters up and emphasizing the strike feature of the demonstration. The only strike part of the demonstration is a strike against the regulations of the Institute. However, the main purpose of such a demonstration should be to offer students the opportunity to express themselves in a discussion of the problem of war and to hear the opinions of intelligent speakers on the methods of furthering peace.

If a large portion of the student body is sincerely interested in discussing the war problem, and wishes to hold a meeting, enlisting able speakers to present mature viewpoints on the subject, we feel that an outlet should be provided for this sentiment, and that some kind of meeting would perform a great service by stimulating student thought on a vital world problem.

Technology Union provides a medium through which the undergraduate body can express its opinions. If the steering committee of this organization wishes to make war the subject of one of the discussions at the Union, this might offer the most effective solution.

## A KILO OF PREVENTION

### GERMAN MEASLES

TECHNOLOGY has been fortunate in remaining relatively unaffected by the epidemic of the German measles, which has stricken more than 150 students at Harvard and has approached serious proportions at Yale. No more than nine cases at a time have been quarantined at the Haines Memorial Hospital, and the total number of cases reported over a period of several weeks does not exceed 30.

The most effective means of preventing the spread of the German measles is to quarantine the cases before they have a chance to be transmitted. The individual can fortify himself against catching the disease by taking especial care to keep in good physical condition, eat intelligently, and get lots of sleep, but there is no positive means of immunizing one's self. Those students who are in good condition, however, will not be affected so much by the disease, and will be in a better position to avoid such complications as mastoids, which occur in rare cases.

While the epidemic is completely under control at the Institute, it is essential that any students who display the symptoms of sore throat, headaches, and rash, report to the Infirmary, and absent themselves from school. Some cases are so light that it is possible for the infected person to continue his normal work without staying out of school, and it is these cases which are the most likely to infect others.

In justice to those who may be more seriously affected by the disease, especially those students who have mild cases should take unusual care not to endanger others. The situation calls for a straightforward approach, and students should feel their responsibility of minimizing the chances of getting or transmitting the infection.

## WIDER APPLICATIONS

### THE HONORS GROUP

THE most effective method of educating large numbers of students has long been a subject of debate by educators. The accepted procedure consists of subjecting groups of men in each individual field of endeavor to a course of lectures or lecture-recitations. The faulty points of this system are all too obvious. The lecturer must constrain his rate of presentation to accommodate the receptiveness of the majority of the students in his group. The more brilliant members are thus tied down to this rate of progress at a great loss to them both of time and the urge to learn; similarly less apt students cannot hope to grasp all of the subject matter presented and so must accept a definite loss in their education.

The Electrical Engineering Department at the Institute inaugurated nine years ago a plan of education known as the "Honors Group." A group of the more intelligent members of the Electrical Course are given the opportunity to study at a pace which they set for themselves individually. They are relieved of the necessity of attending slow-moving lectures and devote the time thus saved to furthering their education in more advanced fields. In this way their desire to learn is not cooled by enforced abstinence nor is the time which they have allotted to learning spent ineffectually.

There seems to be a definite application of this method of education to other courses here at the institute. The Electrical Department under Professor Jackson has demonstrated the success of the plan; other institutions, notably Harvard University have provided further evidence of its applicability. It remains only for some other progressively thinking department heads at Technology to make the benefits of the "Honors Group" plan available to students in other courses where such a system might be applicable.

## PUBLIC SERVICE

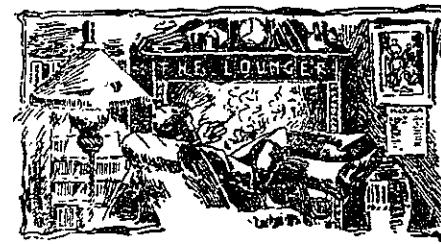
### INSTITUTE SUMMER COURSE

THIS summer the Institute will initiate a summer course in public service administration. Students interested in working for the government have long felt the need for orientation in the period after leaving college. The Department of Economics and Social Science, in co-operation with the Department of Biology and Public Health, has planned a course which will be of great value to such students, especially in showing the interrelationships of economics, sociology, and government. The six phases of the problem, each to be given one week of study, are as follows: public administration, public finance and taxation, control of industry, organization for urban and rural planning and control, public health engineering and administration, and organization for social welfare.

Some may ask why a technical institution should take it upon itself to present courses which are not directly of an engineering nature. The answer can be supplied from the remarks of many of the leading political commentators, who are quite generally agreed upon one point, namely, that ill equipped and inefficient public officials have been probably the greatest handicap to the successful functioning of the present administration. No longer can responsible positions be given to men trained only in politics. Since much of the administration of the government does involve a technical knowledge, it is logical that the engineering student take up the burden which the professional politician has been unable to carry.

As the problems have arisen in the administration of the New Deal, there has been a corresponding attempt to get the best men to fill the job, many being attracted from positions in colleges and universities because they were known to have a broad understanding of the field in which they have been working. In many cases men have not been found to fulfill the requirements of responsible positions. This has meant the doubling up of responsibility on those prepared to carry it. Now comes the urgent call for trained managers for forty-five housing projects now under way as a part of the work of the Housing Division of the PWA. Colonel Roger Black, head of the management branch of the Housing Division of the PWA says, "It is questionable whether today there is any considerable number of people, experienced though they may be, who could adequately manage one of our properties, without some additional training."

The faculty of the Institute is to be complimented for its plan to contribute to the training of public officials by means of the summer course, which should meet with the acclaim of students interested in government work.



### Measles

The epidemic of measles seems to be abating. But students are still hoping that that sore throat (caused by yelling "brownbagger") indicate a mild case which will permit them to take a few days off. One young man, told by his classmates on the first of April that he was due for a Physics exam that day, hurried down to the infirmary to report symptoms of measles. Seems he had observed continual sleepiness, especially in lectures. But he was turned away without an encouraging word. Returning to his class some fifteen minutes late, he was greeted by exuberant "April Fool's." They were telling Him!

Another young man, comfortably established in the infirmary, sent to his frat for clothes and shoes. But he didn't expect that his fraternity brothers would bring over his whole wardrobe, including all the old shoes they could find.

### Vice Rampant!

That den of iniquity known as Walker has been the scene of lawless gambling and gaming again. "George the Kid, the Gambling Fool of Roxbury" has been consistently cleaning up in reckless games of "seven and a half." "Howzitt Al, the Prince of Penny Tossers," is reported to have amassed an enormous number of the bronze disks. What with the Freshman Dance Committee operating a slave mart over in the Main Lobby of the Institute, we say as we have said often before, with bowed head and sorrowful countenance, "Whither goest thou—youth?"

### Anti-War

And is the anti-war strike committee gnashing its teeth in disgust. President Compton would have to agree to speak Friday in favor of the strike. And he's even thinking of dismissing classes during the strike hour. Now if he'd emphatically refused to have anything to do with the strike and had forbidden students to leave their classes, everyone would have been happy. The N S L'ers and the SLID'ers (that looks funny, but it's right) would have been able to rant against Capitalism, and Oppression, and Free Speech, and Personal

## THE TECH

### Inquires

This column endeavors to solicit student opinion upon selected questions. A reporter interviews students at random, in making his rounds about the Institute. Questions for this column may be submitted by readers. Open Forum comment on any of the answers will be welcomed.

Question for this issue: "What is your opinion of the Anti-War Strike to be held on April 12 at the Institute?"

Harry E. Draper, '38, XVI, 301 Berkley St., Boston:

"I think that it's a good idea in that the spirit involved is unified in power. On the other hand, if the strike is unsuccessful, no great harm is done, but really good because of future advertisement. All in all, American youths are showing their leadership."

Joseph M. Vallone, '37, XV-1a, Dormitory:

"I think this Anti-War Strike is indeed rather silly. War is inevitable, and even though we have promising futures ahead of us, there is no reason why we shouldn't be true American citizens and bear arms when needed."

Fred P. Forman, '38, I, 528 Beacon St., Boston:

"Such a proposition is a good idea. The more the anti-war feeling spreads and is made known, the better are the chances for the abolition of war."

Puzant Bakarian, '37, XIV, 109 Cushing Ave., Belmont:

"Peace is the desire of mankind. If through this meeting, we can demonstrate our desire for that peace without riot or violence, much has been accomplished."

Harvey F. Phipard, Jr., '37, X, 528 Beacon St.:

"The idea of a protest against war is fine. It is a pity to have had the standards of those participating lowered by the endorsement given the strike by the National Student League."

(Continued on Page 6)

The Tech Inquires

Liberty, and Oriental Workers, and Huey Long, and Goodness Knows What Else. And everybody would have been on their side. But as it is, with the Powers That Be taking the side of the Strike Committee, the student body is naturally agin it. But expects to get some fun out of it anyhow.



## "It will be home as soon as I will!"

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## Reviews and Previews

## METROPOLITAN

"George White's 1935 Scandals", another edition of the famous musicals on the screen, and the personal appearance of George Olsen and his orchestra with Ethel Shutta on the stage are the feature attractions starting today.

The "Scandals" boast an all-star cast with Alice Faye, James Dunn, Ned Sparks, Lyda Roberti, Cliff Edwards, and White himself, who conceived, produced, and directed the entire production.

## KEITH'S MEMORIAL

"The Scarlet Pimpernel", famous Baroness Orczy story of the two-faced Sir Percy Balkeney who allows himself to be regarded at home, even by his French wife, as a pleasure loving and idle fop, in order to direct the dangerous rescue work under the very eyes of the French secret service agents, brings Leslie Howard and Merle Oberon in the leading roles.

## LOEW'S STATE

"Naughty Marietta", Victor Herbert's musical romance of the Creole days of St. Louis, makes its bow to Boston today co-starring Jeanette MacDonald and Nelson Eddy. All the original music of the operetta is retained with new lyrics by Gus Kahn.

## RKO BOSTON

"Roberts" moves across the street this week together with the famous colored team of Buck and Bubbles on the stage. This reviewer adds his plaudits to the wide acclamation that

Fred Astaire's dancing in this vehicle has received. We would not say quite that much for Ginger Rogers, his partner, but the pair together certainly belong in class one.

## PARAMOUNT-FENWAY

"McFadden's Flats" is a revival of the stage play by Gus Hill which enjoyed a great success in this country and in England in 1897. Walter C. Kelly, a newcomer to the screen, plays a hard-headed and hard-fisted Irishman who rises from hod carrier to big contractor.

Co-featured is "The Florentine Dagger" a "Clue Club" murder mystery melodrama, with Margaret Lindsay and Donald Woods.

## LOEW'S ORPHEUM

Wallace Beery's "West Point of the Air" tells of life in the army flying school and has Robert Young and Maureen O'Sullivan in the cast. The thrills of training procedure and a dramatic love story are the essence of the plot.

On the stage is Vera Gordon, assisted by her own company of artists in a comedy drama entitled "Reunion in America."

## MODERN

"Gold Diggers of 1935" shares honors on the screen with "Are We Civilized?" a new production. Taking as its motif the well-established truth that, throughout the ages, ignorance, superstition, intolerance and greed have been the most destructive enemies of civilization, the latter vehicle attempts to show how today mankind is engaged in combating these same forces with freedom of speech and of the press. William Farnum and Anita Louise take the leading roles.

## FINE ARTS

"The Unfinished Symphony" enters its second week. (See Tuesday's The Tech for review.)

## UPTOWN

"The Little Colonel" with Shirley Temple and Lionel Barrymore gives you the story of a tiny five year old tot who makes her proud old grandfather forget his bitterness in a Kentucky feud.

## Conference

(Continued from Page 1)

There will be round table conferences, beginning at 10 o'clock Saturday morning. Speakers will include Dr. Tyler Dennett, President of Williams College, Leonard D. White, United States Civil Service Commissioner, and Miss Susan S. Burr, Division of Research and Statistics, Federal Reserve Board.

Dr. Dennett will speak again on "The Dangers of Bureaucracy" at the final open session starting Saturday afternoon at 3 o'clock. "Policy Making and the Young Government Employee" will be the topic of a speech by Gardner Jackson, former Senior Administrative Assistant to the Consumer's Counsel of the AAA.

Some of the other speakers are Frederick C. Howe, Economic Adviser, Department of Agriculture; Arthur MacMahon, Professor of Government at Columbia University; and Nathan Isaacs, Professor of Business Law at Harvard College.

An informal dance will be held for members of the conference on Friday evening after the first session. The charge will be seventy-five cents.

### Meteorology Group Plans To Continue Stratosphere Work

#### Balloons Carry Instruments Which Record Data Automatically

Plans for continuing the study of weather conditions in the stratosphere by means of sounding balloons equipped with sensitive recording instruments were announced by the division of meteorology of the Institute last Wednesday. The study will begin soon at Lambert Field Airport in St. Louis, Mo., where Technology already has carried out two successful investigations of this type.

Mr. Chris Harmantas, who will be in charge of field operations, has left for St. Louis. He took with him 36 sounding balloons. While the time of their release will depend on weather conditions, it is hoped that they may be sent up next week.

Each balloon will carry a specially designed instrument, weighing only a few ounces, for automatically recording temperature, humidity, and atmospheric pressure. The balloons will be only partially inflated in order that they may expand upon reaching the rarefied air of the stratosphere. Upon reaching their limit of expansion, they will burst, allowing the instruments, which are encased in shock-absorbent frames, to fall to the earth. Each will carry an identification label offering a reward for its safe return to Professor C. G. A. Ross-

by, director of the division of meteorology at M. I. T.

Following the balloon flight last November, 29 of the 35 bags released were found and returned by residents within a radius of 100 miles of St. Louis. In view of the more favorable season, Institute meteorologists hope to recover an even greater number in the forthcoming tests.

While the data obtained in the previous investigations is still being studied, several interesting observations have been made concerning the nature of the stratosphere, that layer of the atmosphere where temperature no longer decreases with height. At the base of the stratosphere over St. Louis last November, extraordinary fluctuations of temperature, ranging from 36 degrees below zero Fahrenheit to 78 degrees below, were recorded. The base of the stratosphere itself was found to vary greatly in height, shifting suddenly from 25,000 to 40,000 feet above the earth.

### Dramashop Tryouts To Be Held Tuesday

Tryouts for the new members of Dramashop will be held Tuesday afternoon, April 9th, at 5 o'clock in Room 2-190. Anyone who wishes to join the club, either as actor or member of the business or technical staff is asked to attend. The successful candidates will be notified by mail in a few days.

The regular meeting of the club will be held on Wednesday afternoon, at 5 o'clock in Room 2-178. Two one-act plays will be presented by the members. Refreshments will be served.

...I do not irritate —



*I'm your best friend*

*I am your*

**Lucky Strike**

I am always the same... always mild, fine-tasting and fragrant. I am made of center leaves, only. The top leaves are undeveloped, acrid and biting. The bottom leaves are grimy, tasteless and harsh. I am made of only the fragrant, expensive center leaves. I give you the mildest, best-tasting smoke. I do not irritate your throat. I'm your best friend.



*They Taste Better*

# Tech Sharpshooters in Intercollegiates

## Marksmen Hold I. C. Matches At New Haven

Crack Rifle Team Takes On Best  
Teams In East For Title

Season's Record Shows 25 Wins

Fifteen crack rifle teams will compete in the Eastern Intercollegiates at Goffe Armory in New Haven, Conn. on Saturday afternoon, April 6. The teams include Army, N. Y. U., Yale, Harvard, and Technology. The Technology team consists of L. C. Hall, '35, C. F. Price, '36, R. J. Greer, '35, T. Kinraide, '37, R. Flood, '35.

The scores of all participating colleges in sectional inter-collegiate shoulder to shoulder matches will be compiled and the high scorer ranked as Intercollegiate Champions. The teams will shoot in three positions, prone, kneeling, and standing.

The Technology rifle team has been defeated only by N. Y. U. and West Point and Syracuse this past season. This record makes the team's chances of winning quite good.

### Postal Matches

Rifle fans will be interested to know of the success of the Technology Sharpshooters in the Eastern Intercollegiate Postal Matches. The United States Coast Guard Academy has a record of 6 victories and 1 defeat; M. I. T. has a perfect score of 6 victories, having handed the coast guardsmen their only defeat. It is quite probable, therefore, that the championship will be awarded to M. I. T.

## Boxing Banquet Next Wednesday

Riverbank Court Hotel Scene Of  
Annual Dinner And  
Elections

Cards have been sent out during the past week to boxing fans here at the Institute announcing the annual boxing banquet. As in the past few years, the dinner will be held in the Dutch room of the Riverbank Court Hotel. At this time, next year's captain and manager will be elected, and letters and shingles will be awarded to the men on varsity and freshman teams.

At the present time, arrangements are being made to have as the guest speaker, a well known local football and boxing coach of a nearby college.

Men who have not received invitations, may get in touch with Manager Reed Hornor at 428 Memorial Drive, who is in charge of reservations. Dinner will be 80c per plate.

## Ball Players Hold Initial Practice

Unofficial Nine To Play Under  
Title Of Cambridge  
Collegians

Thirty-two men reported to Coach Merewether yesterday for the first outdoor workout for candidates for the unofficial Tech baseball team. The majority of the men were infield aspirants and batterymen. The batterymen previously had been out at practices on Tuesday and Wednesday.

The cold weather hampered the practice yesterday somewhat, the session being concluded after a short fielding workout and one round of batting. Walsh, Downing, Abbott, Milone and Demo threw to the batters in the hitting practice. None of the hurlers made any effort to put any stuff on the ball, each one concentrating on control.

Because of the large number who batted, each man was limited to a very short time at the plate. Only a few of the hitters poled out long drives, being handicapped by cold hands and the lack of any other batting practice to date.

Practices will continue daily, and steady attendance at these workouts

(Continued on Page 6)

Baseball

## Crew Has Eight Boats On River

Varsity, Jayvees, 150's, And  
Freshmen Prepare For  
Race April 20

Eight crews have survived the winter grind and are working out regularly on the Charles. Haines has four varsity boats and Dunning has four freshman boats.

No definite selections have been made for any boat. In fact changes are made daily as the Beaver prefixes attempt to uncover the best combinations. Haines has his son, Guy, stroking the first boat in front of Haskins, Birch, Thorson, Stueck, Ferguson, Captain Mowatt, and Hazeltine. This boat has Hunt as Coxswain.

The 150's who were very successful last year, have been hit by graduations despite what has been written elsewhere. Nevertheless, high hopes are held for them. At present Fasoulis is stroking followed by Freiberg, Grant, Brauer, Crocker, Jaeger, Dolben and Beckwith. Clark is coxswain.

The freshman crews took their first work-outs in shells this week. The shift from lapstreaks has caused the usual temporary troubles, but things should turn out reasonably well as soon as the yearlings become accustomed to their new boats. Draper, who stroked the winning field day crew, has finished his duties on the swimming team and is again stroking the first heavy crew. With him in the boat coxed by Smith, are Weir, Chapin, Bartels, Glacken, Wilson, Montgomery and Hoke.

The light frosh crews have also been coming along nicely. Coach Nashner has been making several shifts recently. Yesterday his first crew was stroked by Harvey, with Ihmels, Guindon, Hilcken, Piel, Sarano, Morrison, and Preston rowing behind him. The 150 frosh will take on Browne-Nichols Jayvees on the Charles April 20 while the heavies take on the Browne-Nichols Varsity.

The first varsity race will be held the same afternoon on Worcester's Lake Quinsigamond. The first crew, the Jayvees, and the 150's will race against Yale. The lake course is supposed to be one of the country's finest and the race two weeks from tomorrow will be the only time in 1935 that Beaver crews will use it.

The following crews rounded out the eight on the Charles yesterday evening. All crews read from eight to and through coxswain:

J. V.: Lawrence, Olsen, Wilcox, Lowenstein, Graham, O'Connor, Bixby, Easton and Hubbard.

3rd Varsity: Pratt, Seeleman, Patterson, Phillips, Lane, Naugle, Pierce, Kohl, Kanter.

Freshman No. 2: Coombs, Church, Alder, Beaman, Judkins, Underwood, Bjorkman, Lamb, and Ray.

Freshman 150 No. 2: Cohen, Atwater, Hutchins, McKeag, Bachelder, Muther, Englander, Kahn and Biancardi.

## Trackmen in Handicap Meet This Saturday

Saturday afternoon at 2 o'clock the trackmen will usher in the Spring season with a handicap meet on the cinder track. The competitors have been working hard to condition for this first meet and it should be a success.

The Track House is a very busy place now. The coaches not only have to look after their men, but new equipment is being brought in nearly every day and the coaches have to examine and pass upon every piece of it. Six new poles for the vaulters and a dozen new javelins are among the equipment that has been acquired lately. The varsity uniforms have also been sent to the cleaners.

The first competition for the spring season is the Greater Boston Intercollegiates at the Harvard stadium on April 26. This year Harvard, who has usually won this meet, is not entered, and this will undoubtedly better Technology's standing.

## Ozol New Captain Of Fencing Team

Competition For Varsity Club  
Awards To Be Held  
Saturday P. M.

At their banquet in the Faculty Room last Wednesday the Technology fencers elected Rudolph Ozol as their new captain, and discussed plans for the coming year. The schedule next year will be unusually heavy, and includes a meet with Yale. In order to provide an extra practice day, there will be informal competitions every Saturday. Joe Levis, who was runner up at the Olympic fencing bouts in 1932, will act as advisor to the team.

Although the intercollegiate season is over, the fencing team still has a good deal of work on its hands. This Saturday the foils competition in Walker between members of the varsity promises to be an interesting event. The A. A. will award a gold medal to the winner, who will probably be either Ozol or Toorks. Monday night Captain Hugh Fenlon and William Toorks will vie for honors at the sabre.

## Tech To Meet Boston Lacrosse Club Team

Ralph T. Jope, secretary of the Advisory Council of Athletics, was guest speaker at the lacrosse banquet last Wednesday night. This first formal meeting of the present season's lacrossemen was very successful in get-

## SPORTS COMMENT

Looking back on an exceptionally fine record to date, the Tech rifle team, competing in the Intercollegiate championships tomorrow, stands a fine chance of being returned the title. Last year the Engineers sharpshooters were runners-up, with the N. Y. U. marksmen capturing the crown. This season one of the Tech riflemen's three losses was to the Violet team, but the margin of defeat was not large enough to make the New York team better than a very slight favorite to nose out the Tech men at the Intercollegiates tomorrow.

\* \* \* \*

The lacrosse team opens its season tomorrow with a practice game with the Boston Lacrosse Club. Last year in a similar meeting the Tech stickmen ended up on the short end of a 9-2 count. The score tomorrow will probably be somewhat similar, but the idea behind the game is to give the Engineers a taste of real stiff competition before they enter upon their regular schedule of intercollegiate contests. It is to be expected that the Boston Club will be victorious, for the team takes on other Greater Boston college outfits early every spring and consistently defeats them. Last Saturday Tufts was taken into camp by the club team.

\* \* \* \*

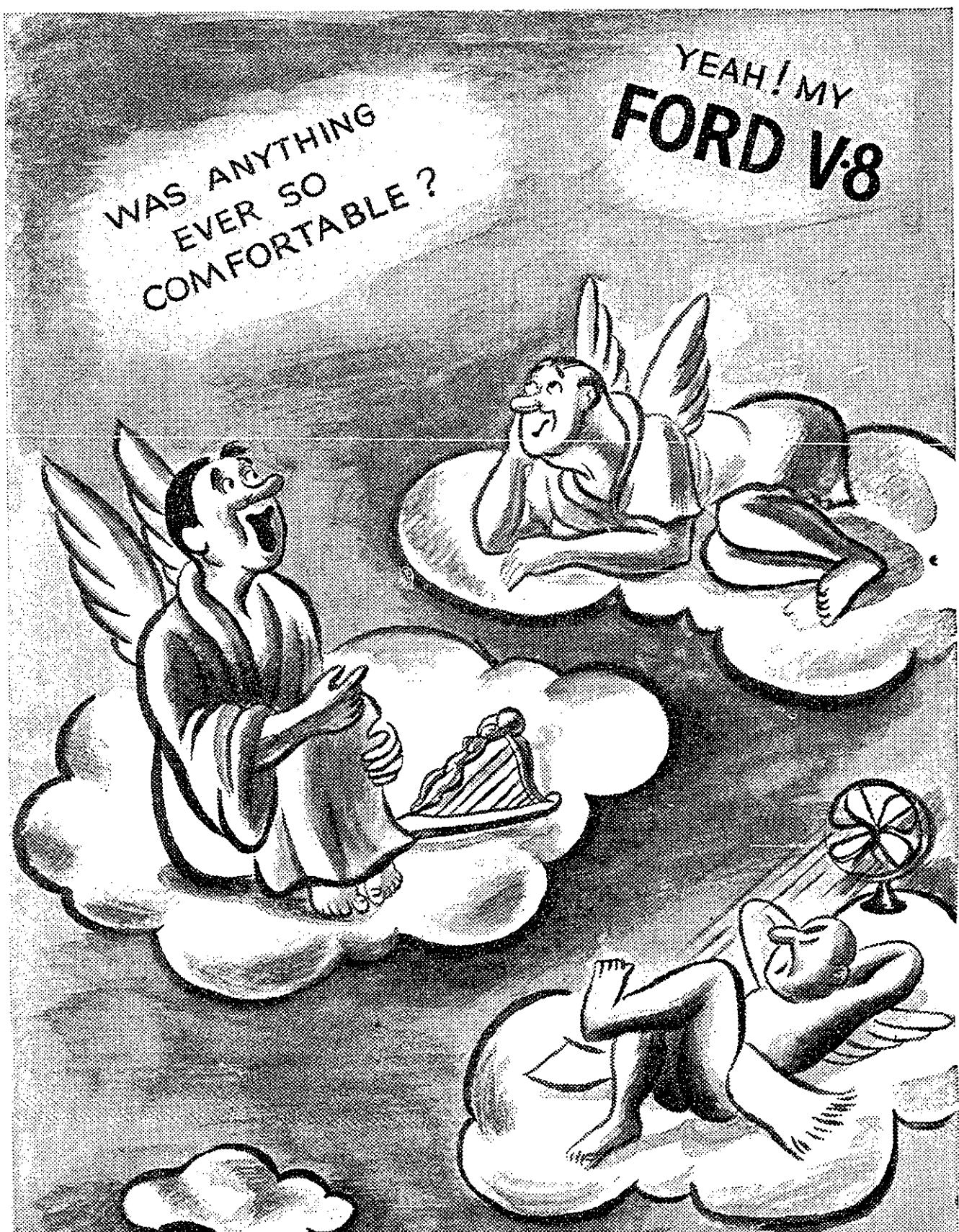
The new Tech record for the high jump that Jim Thomson set at the K. of C. games this winter was officially accepted by the Advisory Council recently. At that meet Jim cleared the bar at six feet two inches to better the previous Tech record by two and one-quarter inches. Thomson gave indication of his promise a year ago when he won the freshman P. T. competition. Under the direction of Bob Bowie he has made steady improvement, for last year Thomson set a new freshman high jump mark of five feet eight and one-quarter inches. Bob Bowie apparently hasn't much to worry about now either in the broad jump or the high jump events this spring, with Thomson in the latter and Stan Johnson in the former.

ting the men together and in discussing the coming games. The lack of freshman material was discussed. Men interested in lacrosse should realize that whether they are experienced or not, it is still not too late to come out for the game.

Tomorrow afternoon at the Coop field, the lacrosse squad will enter

competition for the first time this year when they meet the Boston Lacrosse Club in a practice game. The Boston club is composed of ex-college stars and they should give Tech some very active competition. This game will give Coach Tommy Tucker a chance to see his men in action, and will help him choose his team.

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## Masque Elects New Members To Society

Thirteen new members will be elected to Masque, honorary society of Tech Show, at a meeting to be held today at 5:00 o'clock in the East Lounge of Walker Memorial. Anyone exhibiting outstanding ability in any department connected with the show is eligible for membership.

## Dean's List

(Continued from Page 1)

without examinations, on the basis of having stood in the upper fifth of their high school classes.

The dean's list carries the names of 31 per cent of the first year students, 29 per cent of the class of 1937, 34 per cent of the junior class, and 39 per cent of the class of 1935, who achieved either first, second or third honor rank in their studies.

## Elections

(Continued from Page 1)

Elections Committee, but not to form voting blocks or to conduct any form of electioneering at the polls.

Any candidate who takes any part in attempting to influence an election in any other than the allowed methods will automatically be dropped from the roll of candidates.

A person is eligible to be nominated by members of his own class for but a single office in the class in which he is a voter.

Nomination blanks shall be submitted in the following form:

We, the undersigned members of the Class of ..... do hereby nominate..... for ..... of our Class.

(Sponsor's signatures)

I hereby accept the nomination

(Signature of nominee.....)

Candidates are reminded that the signatures of twenty-five sponsors shall appear on the nomination blank; no individual may sign the nomination blank of more than one candidate for any office: if this happens, his name will be struck from the group of sponsors on every nomination blank bearing his name.

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AT Lydia Lee's  
Opposite the Aeronautical Laboratory  
136 Massachusetts Avenue

## Portraits

(Continued from Page 1)

Civil Engineering, Chemistry and Physics, and invited guests.

The new portraits of this series are of the late Dr. John R. Freeman, the distinguished civil engineer of Providence, R. I., and life member of the Institute's corporation; Dr. Robert A. Millikan, physicist, of the California Institute of Technology; and Dr. Frederick G. Cottrell, chemist and inventor, and for many years director of the Fixed Nitrogen Research Laboratory in Washington.

There will also be on exhibition the four earlier portraits of this series, including that of the chemist, Joseph Priestley; Admiral David W. Taylor, naval constructor; Professor Elihu Thomson, electrical engineer and inventor; and Dr. Ambrose Swasey, mechanical engineer and constructor of great telescope mountings. All of these portraits are to be hung in the halls of the Institute.

The unveiling ceremonies will consist of brief biographical eulogies of the work of the three subjects by Professor Charles B. Breed, Frederick G. Keyes, and John C. Slater, respectively heads of the departments of civil engineering, chemistry and physics. Presentation of the portraits will be made by Mr. Wise Wood on behalf of Mrs. Wood and himself, and Dr. Compton will receive them for Technology. It is expected that Miss Browne may also speak in regard to her interpretation of the portraits.

## Electrical Engineers Advised By Richmond

"Get inside the plant," said H. B. Richmond, '14, in a guidance lecture to young electrical engineers, at an A. I. E. smoker last evening in North Hall of Walker Memorial, "and from then on, your success is a matter completely at your own command."

That too many graduates looking for employment are not satisfied unless they are successful in landing the very job which they have had in mind during their university training, was Richmond's foremost contention and reason for advising engineers in search of a job to "get in" with some concern even if they have to be janitor for the first year.

Once a man is on the staff of a desirable company, and provided he does not provoke ill feeling between salesman and prospective customer by

talking too much, the matter of getting into work which he most desires to pursue is a secondary worry, he contended.

Preceding the main address of the evening, Professor W. H. Timbie, outlined the employment service of the A. I. E. and announced the plans for a summer conference of the A. I. E. this year at Ithaca, New York.

Two reels of motion pictures, one taken by Professor Harold E. Edgerton, showing the action of a synchronous motor at starting and under load, the other a Mickey Mouse cartoon, were shown during the evening.

Coffee and doughnuts and cigarettes were enjoyed before the meeting closed.

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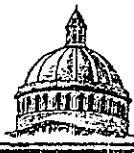
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## HEALTHY NERVES!

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years, without a sign of upset  
nerves," says Bill Horn, former  
Gold Cup winner and outstanding figure in Ameri-  
can motorboat racing. "I like  
Camels and they like me."

**ENERGY!** "As a master builder,  
I have learned that any work requir-  
ing 'push' just naturally calls for  
Camels," comments Frazier Forman  
Peters. "Camels always give me new  
energy when I'm feeling listless."

**FLAVOR!** "It's been thrilling to have a part in the vast enterprise  
of building Boulder Dam," says Erwin Jones, Boulder Dam engineer.  
"Plenty of strain. Many long hours of exhausting work—that's the lot of  
an engineer on this job! A recent check-up shows that most of us here  
at Boulder smoke Camels. Man, what a swell flavor Camels have! Mild,  
cool, mellow! You can tell they are made from choice tobaccos, too,  
because they don't get 'flat' or tiresome in taste when you smoke a lot."



**VALUE!** "I've seen how Camels  
are manufactured," says Charley  
Belden, who runs the big Pitchfork  
ranch in Wyoming. "They are made  
from costlier tobaccos. No wonder  
Camels have such a rich, cool flavor!"

## CALENDAR

Friday, April 5

12:00—Faculty Club Luncheon Meeting, North Hall, Walker Memorial.  
2:30—Tech Dames Tea, North Hall, Walker Memorial.  
5:00—Masque-Tech Show Elections, East Lounge, Walker Memorial.  
9:00—Freshman Dance, Main Hall, Walker Memorial. Intercollegiate Rifle Match.

Saturday, April 16

12:00—New England Association of Mathematicians Luncheon, North Hall, Walker Memorial.  
6:30—Henry P. McCarthy Dinner, Grill Room, Walker Memorial.  
7:00—Faculty Club Dinner, Faculty Dining Room and North Hall, Walker Memorial. Varsity Gym Meet at Springfield. Freshmen and Varsity Track Meet Here.

Sunday, April 7

2:45—Combined Musical Club Concert, Main Hall, Walker Memorial.  
5:00—Dormitory Tea, Burton Room, Dormitories.

## The Tech Inquires

(Continued from Page 2)

Louis D. Bloom, '37, X, Dormitories:

"The Anti-War Strike seems to be a futile attempt to thwart the inevitable. If nations cannot settle the peace situation, how can that group of people usually associated with radical movements accomplish anything constructive?"

Francis J. Bittel, '38, X, 330 Bay State Road:

"It's fine for the people who have a quiz that hour."

Everett H. Cargen, Jr., '36, IX-B, 59 Fairmont St., Belmont:

"Good thing if carried out by a majority of students. It may be possible to keep the United States out of the next conflict if the government knows that the youth of the nation are united against war."

Walter F. Kozak, '37, XIV, 136 Wyman St., Lynn:

"I believe it is a good idea basically, but my opinion of such demonstrations is that they are futile and accomplish nothing or very little."

Francis E. Gilbert, '37, IV-A, 25 Grove St., Milford:

"The strike should be from 12-1, I haven't any class from 11-12."

William H. Austin, '37, II-4, 45 Child St.:

"This idea seems to have a very good object in mind, but when the call for volunteers comes in time of emergency, this body of strikers will be much smaller because the sound of marching feet raises havoc with these ideas."

Robert Van Patten Steiger, '36, V, 66 Bay State Road:

"It seems an excellent excuse for some few to get out of classes that afternoon. But what of the proposed Militarists' counter attack on the same day?"

Manuel Lutsky, '38, VI-A, 15 Lucas St., Boston:

"It seems to me to be rather a foolish way of demonstrating pacifism. Walking out of a class room will merely result in confusion for one hour. A more efficient demonstration would be to hold a meeting that would not interfere with the class-room work."

Norman B. Krim, G, VI, 84 Bay State Road:

"I am opposed to another world slaughter; I favor the Anti-War Strike because it can do no harm and may do some good—it is a move in the right direction."

## Musical Clubs

(Continued from Page 1)

the intercollegiate glee club competition at Portland, Maine. The Orchestra is well known throughout Greater Boston for its many fine concerts given in the past few years.

The program follows:

Mozart: "Serenade: Eine Kleine Nachtmusick" (String Orchestra)

Haydn: "Piano Concerto in D Major"

I. Vivace

II. Un Poco Adagio

III. Rondo all'Ongharese

Miss Elizabeth Travis, pianist

Beethoven: "Symphony No. 2 in D Major"

I. Adagio Molto-Allegro Con Brio

II. Larghetto

III. Scherzo-Allegro

IV. Allegro Molto

Bach: "Now Let Every Tongue Adore Thee"

Franck: "Psalm 150"

M. I. T. Glee Club and Orchestra

Brahms: "Hungarian Dance No. 5"

Strauss: "Kaiser Walzer"

The Orchestra

thinking of the world," he declared. Thus it is imperative that this group be capable of assuming its duties.

## Formative Program

This participation in Open House is the beginning of the formative program continued in various ways throughout the remainder of the student's years at the Institute, and is the first instance of the assumption of responsibility.

Dr. Bush closed his talk with an earnest plea that the Freshmen enter into the spirit of Open House, and that they co-operate "not because somebody pushed you, but because it is an opportunity to contribute to the Institute . . . and to your own growth."

Philip P. Johnston, '35, introduced Dr. Bush to the gathering, held during the hour ordinarily reserved for calculus and physics quizzes.

## Grad House

(Continued from Page 1)

a complete machine. The instrument at the Institute is capable of taking up to the sixth integral, but this could be extended by adding more units.

There are both electrical and mechanical mathematical machines for solving algebraic problems but the latter seem to be slightly more convenient.

Dean Bush stated that, at present, there is no machine which will handle partial differential equations satisfactorily and therefore along this line there is ample opportunity for plenty of research.

## Bush

(Continued from Page 1)

Open House, Dr. Bush declared that it was the first opportunity given the Freshmen to cease merely absorbing from others, and begin giving to them. It is this change in attitude which marks the transition from the school boy to the professional man.

## Transition

"This transition from spoon-feeding to the company of scholars" experienced at Technology is something of utmost importance in enabling the Institute graduate to take his place in the world as a controlling executive and a leader of men.

Students at Technology are as selected a group as it is possible to find at any educational institution, Dr. Bush declared, and as such, they are under obligation to the world. "You will become members of the small group—all too small—who do the

## Commander MacMillan Faculty Club Guest

A special luncheon meeting will be held by the Faculty Club today at noon in North Hall of Walker Memorial. Commander Donald B. MacMillan will speak on "Adventures in Arctic Exploration."

The Faculty Club considers itself particularly fortunate in having Commander MacMillan as its guest for this special meeting. MacMillan's achievements as an explorer are well known to everyone, and his address on arctic exploration will feature many of his own experiences.

The Commander began his career as an explorer, as an assistant to Admiral Peary in the North Polar Expedition of 1908 and 1909. In the following year he joined the Cabot Labrador party, and returned in 1911 to carry on ethnological studies among the Esquimaux. He was leader of the Crocker Land Expedition of 1913. A while later he explored the Hudson Bay, and in the following year he was seen leading an expedition to Baffin Land.

He not only carried on studies in Northern Greenland but also led the MacMillan Polar Expedition. Later he made expeditions to Labrador and Alaska for the Field Museum.

## Baseball

(Continued from Page 4)

will be necessary for Coach Mereweather to be able to make his choices for first string positions on the independent team.

Contrary to any and all previous reports otherwise, the team will not be known as the Beavers. The official name for the outfit is The Cambridge Collegians. Because baseball is not recognized as a varsity sport by the M. I. T. A. A., the use of the Institute's name or any nickname that Tech teams carry is not allowed. The name, Cambridge Collegians, however, has been deemed acceptable by the Tech athletic authorities, since it does not suggest connection with Tech.

"Sure, enjoy yourself," said Jim. "It's a ding good cigarette."