

## Sigma Xi Chapter To Initiate Men Next Wednesday

Over a Hundred Staff Members,  
Graduates, and Seniors  
Are Admitted

### DEAN PRESCOTT TO TALK

First initiation of the Massachusetts Institute of Technology chapter of the Society of the Sigma Xi will be held next Wednesday at 4:00 P. M. in Room 6-120.

Dean Samuel C. Prescott will give an address at the initiation ceremony, entitled "Co-operation in Research: A High Objective for Sigma Xi at Technology."

At 6:30 o'clock in the evening an informal dinner will be held for the initiates in Walker Memorial.

Following are names of members from the staff to be initiated:

Professor Jason C. Balsbough, Professor James A. Beattie, Mr. Charles H. Blake, Professor Charles B. Breed, Professor Earle Buckingham, Mr. M. J. Buerger, Professor Otto G. C. Dahl, Professor Tenney L. Davis, Professor Raymond D. Douglass, Professor Herbert B. Dwight, Professor Harold E. Edgarton, Professor Philip Franklin, Professor Harold L. Hazen.

Professor Victor O. Homerberg, Professor Eberhard Hopf, Mr. John G. Kirkwood, Professor Warren K. Lewis, Professor William H. McAdams, Professor Hans Mueller, Professor Samuel P. Mulliken, Professor Walter H. Newhouse, Professor James F. Norris, Professor Bernard E. Proctor, Professor Kenneth C. Reynolds, Professor Walter C. Schumb, Professor John C. Slater, Professor Julius A. Stratton, Professor Elihu Thompson, Professor Manuel S. Vallarta, Professor Bertram E. Warren.

Members from the graduate student body are to be:

Samuel N. Alexander, Robert T. Armstrong, Arra S. Avakian, Gilbert E. Ayres, Neil S. Beaton, Baalis E. (Continued on Page 4)

## PLANS FOR CLASS DAY ANNOUNCED; DR ROWE TO DELIVER ADDRESS

Redfield Proctor and Professor  
Locke Will Present Class  
Banner to Bell

Announcement of the plans for Class Day, June 4 at 2 o'clock in Walker Memorial was made last night by Proctor Wetherill, '34, Chairman of the Class Day Committee. The program will be as follows:

Presentation of class banner to Richard Bell, President of the Class of 1934, by the Hon. Redfield Proctor, President of the Alumni Association, and Professor Charles E. Locke, Secretary of the Alumni Association. Official welcome of the graduating class to the alumni body.

Presentation of the class ring to Walter H. Stockmayer, President of the Class of 1935, by Richard Bell.

Beaver Oration to be given by the man elected in the Senior class ballot. Address by Dr. Allen W. Rowe, ex-president of the Alumni Association and member of the Corporation. (Continued on Page 3)

## MASQUE ELECTS NEW MEMBERS TO SOCIETY

Twenty-Four Men to Be Initiated  
at Banquet Thursday

Twenty-four new members will be initiated to Masque, honorary society of Tech Show, at a banquet to be held Thursday at 6:30 o'clock in North Hall. Eleven of the new members are Seniors.

Professor William C. Greene, coach of Tech Show, will be the speaker at the occasion. Members of the advisory council, Assistant Bursar Rhind, Walter J. Hamburger, and James Donovan, will be present at the initiation banquet.

The new members are John C. Austin, '36; John B. D'Albora, Jr., '34; David W. Dale, '35; Gordon Day, '34; Louis B. C. Fong, '35; Foster R. Jackson, '34; Chandler Wentworth, '34; William B. Pritchard, '36; Sidney Grazi, '35; Carlos F. Lavevas, '35; Arthur L. Conn, '34; M. Scott Dickson, '35; Charles L. Austin, Jr., '36; A. Rufus Applegarth, '35; Wilfred R. Grosser, '35; Paul C. Grueter, '35; Martin A. Gilman, '36; Lawrence Canters, '36; Eino A. Jaskelainen, '34; Fred A. Prahl, Jr., '36; William W. Towner, '36; George E. Wuestefeld, '34; Robert M. Becker, '34, and Arthur B. Ellenwood, Jr., '34.

## Hazen Appointed Exchange Prof.

Electrical Engineer to Serve  
on Faculty of Ohio  
University

In the first of a series of exchange professorships between the Institute and other educational institutions, Professor Harold L. Hazen of the department of electrical engineering has been appointed to serve next year as a member of the faculty of Ohio State University, President Karl T. Compton announced yesterday.

Professor J. F. Byrne, of the electrical engineering department of Ohio State, will in turn spend the coming year at Technology. Dr. Hazen's appointment marks the beginning of a general plan, announced last fall, for the exchange of Institute professors with other colleges and universities in this country and abroad.

The plan, a suggestion of Professor D. C. Jackson, is designed to broaden the experience and educational outlook of faculty members and to assimilate the best methods of teaching as applied in other schools.

### Graduate of Institute

Professor Hazen graduated from Technology in 1924, receiving his master's degree there in 1929, and three years later, the degree of doctor of science in electrical engineering. In the same year, he was appointed an assistant professor in the department. Immediately following his graduation he was employed by the General Electrical Company at Schenectady and Pittsfield, and in 1927 carried on field work for the American Telephone and Telegraph Company at Richmond, Va.

At Technology Professor Hazen has cooperated in the design and construction of several important electrical devices, among them the network analyzer, upon which whole power systems are represented in miniature for the solution of circuit problems, and the differential analyzer of "Thinking machine," used to solve difficult mathematical equations.

### Consultant for Stations

Professor Byrne is a graduate of Ohio State University, receiving his master's degree there in 1928. The following year he was appointed an instructor in the department of electrical engineering, where he now holds an assistant professorship. Professor Byrne has carried on extensive research in the field of electrical communications especially in relation to broadcasting frequency, and has acted as consultant for a number of broadcasting stations throughout the country.

## FLYING CLUB HAS EIGHT TECH STUDENTS

Fly Average of One-Half Hour  
Per Week at Airport

Every week-end a group of Technology students who call themselves the school Flying Club may be seen down at Wiggins airport in Canton watching the planes come in and take off. Some of the group, with the required number of hours in the air have regular licenses, while others are piling up mileage in order to qualify for licenses.

Participating in the flying club are Lincoln Orr, '36; Karl A. Gelpke, '36; Lawrence W. Sharpe, '36; Thomas P. Nelligan, '36; Arthur W. Gilbert, Jr., '35. On the average the men fly about one-half hour per week. "Once you've been up," is the unanimous sentiment of the club, "you'll want to go in for it in a big way."

Most of the planes at the airport, which has a branch in Providence, are available for operation by members of the club. The equipment at the airport includes a Spartan Lowing, a Kinner Sportster, the latest design in Kinner planes, with 125 horsepower, a Fairchild, '22, open monoplane, Fairchild, '24, cabin plane, a Taylor Cub, two Spartan biplanes, and three Stinson monoplanes.

The staff at the airport consists of a chief pilot, and two assistant instructors.

This reporter, who was shown around the airport two weeks ago, had his first flying experience in the Spartan biplane, J-65, with Arnold Chamberlain, chief mechanic, and limited commercial pilot, at the controls.

A 225 horsepower motor roaring, a fifty mile wind cutting over the top of the wind-shield, the plane took off, and in several minutes the airport was far below, a speck on what looked like a road map. On the turnpike the cars appeared to be almost standing still. After several minutes aloft, the plane idled over the field, preparation (Continued on Page 2)

## Invent Automatic Tuning Device for Radio Receivers



EARNEST A. NORDBERG AND ARTHUR K. BAKER

## WILDCATS WIN OVER ENGINEER STICKMEN

Forster Elected Captain for  
Next Year After Game

The Technology's lacrosse season came to an unsuccessful close last Saturday afternoon, when the team was defeated by New Hampshire University, 8 to 4. A review of the game by quarters shows that at the end of the first period the Engineers were trailing their opponents, 3 to 0. In the second quarter the boys found themselves and scored two goals, the first by Forster, and the second by Halverson. The half closed with the score of 4 to 2.

In the third period Lufkin and Asch tallied for Tech, while Borger efficiently staved off the Wildcats to keep them from scoring. During the final period, New Hampshire applied pressure in a series of attacks that started its final rally. Coach Luther Gulick, handicapped by lack of substitutes, was unable to send in fresh replacements and consequently the final whistle found the Engineers on the short end of an 8 to 4 score.

After the game Robert Forster was elected captain for next year. With a large nucleus to be back from this year's team Coach Luther Gulick is optimistic about next year's prospects.

## LIGHTWEIGHT CREW WINS OVER HARVARD

Freshman Boats Lose; Second  
Heavies Trail at Yale

As a climax to a most eventful season, the Technology 150 pound varsity crew rowed to victory over the Harvard lightweights Saturday by the impressive margin of 2½ lengths. In spite of the stiff wind that caused miniature waves on the Basin, the boat made the fast time of 7 min. 16 sec. over the Henley distance. This was the last race that the men of this boat will ever row together, since three of its members are graduating this year.

In the other races on the Charles, the Crimson freshman 150 pound boat defeated the M. I. T. freshmen 150 pounders, the Harvard freshman second heavyweights defeated the M. I. T. entry and the second Harvard varsity 150's defeated the second M. I. T. 150's. Rowing against the Yale junior varsity at Yale, the Engineer second heavies lost by two lengths.

## 5:15 MOONLIGHT SAIL HELD NEXT THURSDAY

The annual moonlight sail and dance sponsored by the 5:15 Club will take place on Thursday, May 31, on the steamer Mayflower, which has been chartered exclusively for the occasion. The boat will sail from Rowe's Wharf at 8:45 P. M., and, following a cruise about the harbor, will dock at 1 o'clock.

Tickets at \$1.75 per couple will go on sale Wednesday, May 23, and will be on sale every day during examination week in the Main Lobby.

## CROCKER SPEAKS AT INITIATION BANQUET

Six New Men Are Now Members  
of Alpha Chi Sigma

Ernest C. Crocker, '14, was guest speaker at the initiation banquet of Alpha Chi Sigma, last Friday at the Hotel Commander. The banquet followed the initiation of six men into the student chapter of the honorary chemical fraternity. The new members are: James B. Allen, '36; Hebert M. Borden, '36; Louis J. Gillespie, Jr., '34; Thomas A. Terry, Jr., '36; Bernard Vonnegut, '36; and Roy P. Whitney, '35.

Mr. Crocker is now connected with the Arthur D. Little Co. His remarks were concerned with the "Contributions to Science from the Goat: Odors and Smells."

## HUNT, RETHORST WIN IN NET TOURNAMENT

Tech Ace Seeded Number Two;  
Team Loses Saturday

Gilbert Hunt and Scott Rethorst advanced in the New England Intercollegiate Tennis Tournament yesterday as they won their matches at Longwood. Rethorst scored an upset when he eliminated Kelleher of Williams, who is seeded number three, in straight sets, 8-6, 6-0. Scott had won an earlier match also in straight sets.

Hunt, who has been seeded number two, had no trouble in winning his only match of the day from Taylor of Springfield, 6-4, 6-3. Huston of Dartmouth who won the individual title last year has been seeded number one. The only Engineer doubles team, Captain Jim Eder and Scott Rethorst, will not swing into action until today.

The tennis team was nanded its second setback of the year last Saturday afternoon at the hands of Williams, 6 to 3. Hunt, Captain Eder, and Newman won their individual matches, while Rethorst, Ruckman, and Feuchter lost, but the team dropped all of the doubles matches.

## VI-A STUDENTS READ PAPERS AT A. I. E. E.

Burns and Longley Will Speak  
at Worcester Meeting

Gordon K. Burns, '34, and John F. Longley, '33, both of Course VI-A, will deliver papers at a regional convention of the New England Division of the American Institute of Electrical Engineers to be held in Worcester on May 16, 17, and 18. Longley will discuss a System of Police Communication, while Burns' paper concerns Television. The papers will be read on Friday morning at a session of students of the nineteen engineering colleges in this section of the country who will compete for the annual national and regional prizes offered for the best papers presented by students.

## Invent Automatic Radio Tuner and Remote Control

Earnest A. Nordberg and Arthur  
K. Baker, Both Juniors,  
Are Inventors

### DEVICE FIXES PROGRAM

Will Tune a Radio Receiving Set  
in Advance for as Much  
as Six Hours

Copyright, 1934 by THE TECH  
Inventors of an automatic radio tuner and remote control are Earnest A. Nordberg, '35, and Arthur K. Baker, '35. This device is primarily designed to tune a radio receiving set in advance for any period of time up to six hours, so that after the device has been adjusted no further tuning in of programs is required during the time interval for which the device is designed to operate.

### Remote Control Part of Device

Combined with this device is a remote control unit, not unlike present day systems in its function, but which differs greatly in its method of operation. Its chief advantage is its use of only five wires to the radio set instead of the customary twelve or more.

The main principle of the tuner is the clamping in place by springs of 32 closely spaced discs in positions corresponding to points on the dial representing different stations. One disc corresponds to a fifteen minute interval so that by setting a series of discs at the same point a station may be retained as long as desired. 24 of the locking units are reserved for automatic operation and eight for remote control. By the use of a double-field reversible electric motor, controlled by the discs a new station is tuned in.

### Tuning Not Hampered

Located underneath the clock, which is set in a front panel of the (Continued on Page 4)

## TRACKMEN CAPTURE ELEVEN FIRSTS AND DOWN BROWN, 92-43

Johnson Scores 13 Points; Bell  
and Jenkins Each Win  
Two Events

In its only home appearance this season the M. I. T. track team badly trounced the previously undefeated Brown team, 92-43, in a dual meet last Saturday at Tech Field. Stan Johnson made the best showing of the meet by winning the broad jump and the low hurdles, and placing second in the high hurdles for a total of 13 points. Captain Dick Bell and Mort Jenkins were tied for second honors with 10 points each. Bell won the 220-yard dash in 21½ seconds, equalling his own Institute record, and also won the 100-yard dash, while Jenkins won both the mile and half-mile runs.

### Brown Loses Spinney

Brown suffered a severe loss when its star sprinter, Harry Spinney, sustained a strained leg while warming up for the 100-yard dash.

Out of a possible 15 first places, Tech captured 11. First places other than those previously mentioned were taken by Gorham Crosby in the 120-yard high hurdles, Johnny Talbert in the two-mile run, Bill Tomlinson in the high jump, and Gordon Donnan and Harold Dixon in a tie in the pole vault.

## SENIOR WINS PRIZE GIVEN BY A. S. M. E.

Samuel Untermyer, II Awarded  
\$50 Prize at Conference

Samuel Untermyer, 2nd, of New York City, a Senior at the Institute, has been awarded first prize for the best technical paper presented at the second annual New England student conference of the American Society of Mechanical Engineers, held at Rensselaer Polytechnic Institute on May 11 and 12.

The only Technology student to take part in the competition, Untermyer was given the award of \$50.00 for a paper on Ignition Promotion in the High Speed Diesel. Twelve other papers were presented at this meeting. He is a nephew of Samuel Untermyer, the distinguished New York lawyer.



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**CHOOSE-A-CAREER**

**WHY NOT ENGINEERING CONFERENCES?**

ONE of the more outstanding characteristics of college adolescence is the insecurity experienced in trying to select a career.

Consequently the news that the first Choosing-a-Career conference for college men and women has been announced will create no little interest. ("Leaders of 31 fields will speak on the career opportunities in their respective branches of American affairs.")

Unfortunately engineering subjects alone cover more than twice 31 fields. Hence at first glance one is inclined to over-estimate the effect of such a move. It is utterly impossible, of course, to cover adequately all or even most of the opportunities.

But criticism to be of value must contain something constructive. Would it not be possible, for example, to hold similar conferences here at the Institute, specializing in engineering alone? This, of course, would be of particular value to freshmen, who are in what might be termed the more plastic condition.

It cannot be assumed that all men who enter the Institute are sufficiently acquainted with those in the engineering field to know what each branch has to offer. All the literature put out by the Institute describing these opportunities could not be as valuable as one personal contact with a man who knows the field.

A move to simplify matters was made when the Institute made all first year courses alike. The freshmen were at least given a chance to look around. But why not go beyond that, and give him a good look?

Some departments already hold such conferences, the only differences being that they are held for men already enrolled in a course, and the speakers only emphasize what the different options of their department have to offer.

Choosing-a-Career-in-Engineering conferences at the Institute would certainly be popular and worthwhile.

**THE CULTURED PLUMBER**

**DEFINITIONS OF CULTURE**

THE reaction of certain readers to a recent editorial entitled "The Classics" indicates that elaborations on the ideas expressed are needed to avoid further misunderstanding. In order to make sure that everyone is talking about the same thing we quote from that infallible arbitrator of disputes, Webster. Says Webster, "Culture is the training, development, or strengthening, of the powers, mental or physical, or the condition thus produced. Improvement or refinement of mind, morals or taste; enlightenment or civilization."

Dr. Frank M. Hankins discussing the prospects of the social sciences, adopts a definition of culture which to our minds fits in most accurately with things as they are if not with the classical notion of culture. "Culture . . . is inclusive of all habits, attitudes, skills, beliefs, arts, laws, customs, morals and material possessions acquired by an individual as a member of a society." It is the product, he says, of our environment and our physical makeup. And, he adds, "none of it is miraculous or mystical in source and essence."

Briefly, culture is a measure of man's adaptation to nature.

Not having the advantage, plus or minus, of a classical education we cannot say how closely

we are in agreement with the liberal arts schools. But no matter on whose toes we step a rigidly objective attitude leads to the conclusion that any conscious striving toward a more perfect adaptation to ones world is cultural in every sense.

The arts of war and diplomacy, the sex mores, the industrial arts, and the means of satisfying physical needs have as important a place in the ground work of a man's culture as the usually accepted studies.

In the long struggle upwards from savagery, man has made consistently more successful attempts to fit himself, with some degree of comfort, into a hostile environment. Since the world, relative to a man's lifetime, or even to the existence of a race, is a fixed unmovable quantity, it is man who has had to make the concessions in order to, so to speak, fit his contours into the rough, jagged, surfaces of his enforced home.

The summation of all this struggle, the arts, skills, habits, practical as well as aesthetic, that man has managed to acquire constitute his culture. The sewage system of Boston and the works of art in the Museum of Fine Arts are both important aspects of that culture and it is an imprudent person who would dare to say which was more important.

That is why we claim that the education of a truly cultured man, that is one who has an unusual ability to adjust himself to his world, must change with the times. Contemporary society is in one essential radically different from any society which existed in the past. Although the phrase has been worn to shreds we must again mention the industrial revolution and the revolution in science which has kept pace with it. Never has the scientific temper of thought been more prevalent.

If the definition of culture given above is accepted, we must draw the inevitable conclusion that today more than ever, a scientific education is an integral part of a man's equipment for existence, in other words, his culture. The study of the classics is only part of the preparation toward the achievement of this ideal, which is never achieved completely but can be acquired in various degrees of perfection.

**OPEN FORUM**

In opening its columns to letters addressed to the Editor, THE TECH does not guarantee publication of any communication nor does it necessarily endorse the opinions expressed. Letters on subjects of interest to the student body are welcome if signed. However, if the writer so desires, only the initials will appear on publication.

**The Opposite Side**

To the Editor of "THE TECH":

In your issue of Tuesday, May 8, you printed an editorial entitled "The New Classics—the Cultural Value of Scientific Training." The deviation in this from the usual run of editorials in THE TECH forces me to write a reply to what may be considered one of the most colossal examples of ignorance that has ever appeared in your paper since I have read it.

The editorial starts, "That a scientific or engineering training may be a sounder and broader basis for a cultured mind than the liberal arts courses commonly given in institutions of higher learning is an idea somewhat startling to believers in the orthodox definition of culture." This is what is known as a "false premise." Since when has it been claimed that culture solely in a liberal arts course? Evidently the editors of THE TECH have still to learn that "culture" is not something which can be taught as can "8.03" or "5.05." Culture is acquired, not taught.

Consequently culture can be acquired almost anywhere and under a variety of conditions. Of course this did not occur to the writer of this editorial, who undoubtedly believes that the world judges a man's culture by the number of his college degrees.

"The study of human relations . . . can be acquired from sources other than the classics," continues the editorial. The author of Beowulf, were he to emerge from Valhalla, poor chap, would have a good old Anglo-Saxon fit of perplexity if you told him that his simple tale was now being used in a study of human relations! It might interest you to know that one of the courses given at the Institute now (Humanics) deals with a study of human relations. I rather think Professor Magoun makes little use of the 'classics' in his course.

"The study of human relations . . . no longer has the importance of earlier centuries," says the writer. I wonder if the author of that editorial realized when he wrote it that every large concern in the world today has its "public relations" bureau? Cynical commentary notwithstanding, "public" relations are in a sense "human."

The editorial states that skill in the use of poison gas "is as essential in smoothly fitting a man into his environment as was a knowledge of the rapier to a gentleman of Spain in the 16th century." Indeed! I am willing to bet dollars to doughnuts that you could not pick out five million men in this country today who might be said to have "skill in the use of poison gas." Yet I will warrant you that more than 4% of the population of 16th century Spain knew how to use a rapier. I do not believe I exaggerate when I say that there are 100,000,000 people in this country today whose only knowledge of poison gas is that it is poison!

But here is the cream of a very unsatisfactory crop: "A truly cultured man of today must know automobiles as a gentleman of another era knew horses, and

a knowledge of automobiles is not acquired from a study of Vergil." Capital! No doubt you would recommend Vergil as an authority for one who wishes equestrian knowledge? Ignorance such as this should not go unrewarded.

"Many decry the objective attitude which comes from exact checking of hypothesis and assumptions, from continual stress on logic. It is felt by these men that the emotional and intuitive side of life is being neglected."

By this I suppose the author means to imply that a student in a liberal arts course spends four years simply developing his emotions and intuition. What a colossal waste of time. Why not apprentice himself to the average American peasant housewife? This would be easier and less expensive.

At the close of the editorial we get this. "Engineering schools recognize, in general, the broadening influence of the liberal arts and provide some, probably not enough, for their study." Sir, after almost a full column of, well, as a student of the classics would put it, "tripe," this is most gratifying.

I hope you have borne with me this far, for like all long tales, mine has a moral. Your editorials in the past have been with minor exceptions, excellent when written on a subject with which you are familiar. This particular editorial fairly reeks with a lack of knowledge of its subject.

If you have reached this point, thank you for your indulgence.

Very sincerely yours,  
 B. L.

**TECH STUDENTS FLY AT AIRPORT IN CANTON**

(Continued from Page 1)

ing to land, made a perfect landing and came gradually to a stop.

Students are welcome at the airport, the club announces, to look the planes over and ask questions about the possibilities of learning to fly.

**UNDERGRADUATE NOTICE**

Seniors who desire a photostat copy of their complete record at the Institute should leave an order at the Records Office, Room 3-106. There is a charge of \$0.50 for the first photostat and \$0.25 for each additional copy ordered at the same time. These will be ready for delivery about the first of July.

**UNDERGRADUATE NOTICE**

Jack R. Burton, Jr., '35, treasurer of the M. I. T. A. A. for 1934-35, announces the appointment of Frank P. Parker, '36, and Phil Lober, '36, to the position of junior assistants for the next year.

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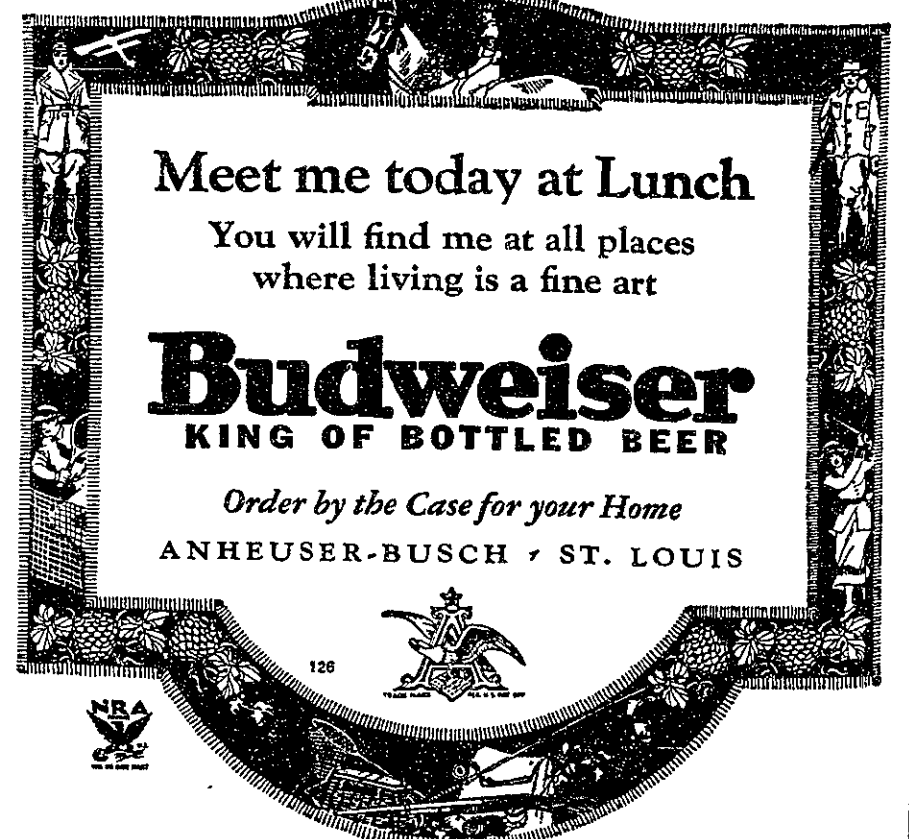
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**PLANS FOR CLASS DAY ARE ANNOUNCED BY CHAIRMAN**

(Continued from Page 1)

Presentation of class gifts by Proctor Wetherill.

An innovation at this class day will be the presence of a representative from every class to graduate from the Institute. A special section of the hall has been reserved for these delegates.

Open House in the dormitories has been granted on the following Senior Week occasions: Sunday, June 3, Baccalaureate Service, 2 to 7 o'clock; Monday, June 4, Class Day Exercises, 12 to 8 o'clock; Tuesday, June 5, Graduation, President's Reception, and Senior Prom, 1 to 10 o'clock.

Senior Week ticket redemptions and the sale of single tickets will commence next Monday in the Main Lobby. At that time tables may be reserved for both the Pops Concert

**SPORTS DESK**

Oscar Hedlund's crack track team scored an overwhelming victory over Brown last Saturday afternoon, 92 to 43, by taking most of the first places and placing in all events. Baseball fans were glad to see the M. I. T. Independents play their first game against the Tufts Junior Varsity, although they lost 10 to 3. In the Interclass loop, the Seniors took the Juniors down a notch when they handed the latter team its first defeat of the year, 12 to 11, but the Juniors did not relinquish their possession of first place, for the freshmen failed to show respect for the graduating class last night when they defeated the Seniors, 19 to 10.

The Lacrosse team finished an unsuccessful season on Saturday by dropping its sixth game of the season, as against one victory, to the New Hampshire stickmen, 8 to 4. After scoring two top-heavy victories last week over B. U. and Providence College, 5-1, and 6-0, respectively, the golf team lost to the strong Amherst team, 5-1, yesterday.

Playing in the New England Intercollegiate Tennis Tournament at Longwood, Gilbert Hunt, seeded number two, won the only match he played yesterday in straight sets while Scott Rehorst won his first match easily and then went on to score an upset in defeating Kelleher of Williams, seeded number three, again in straight sets. The tennis team, however, lost to Williams on Saturday by the score of 6 to 3.

**BALTOSSERS LOSE ON TUFTS DIAMOND**

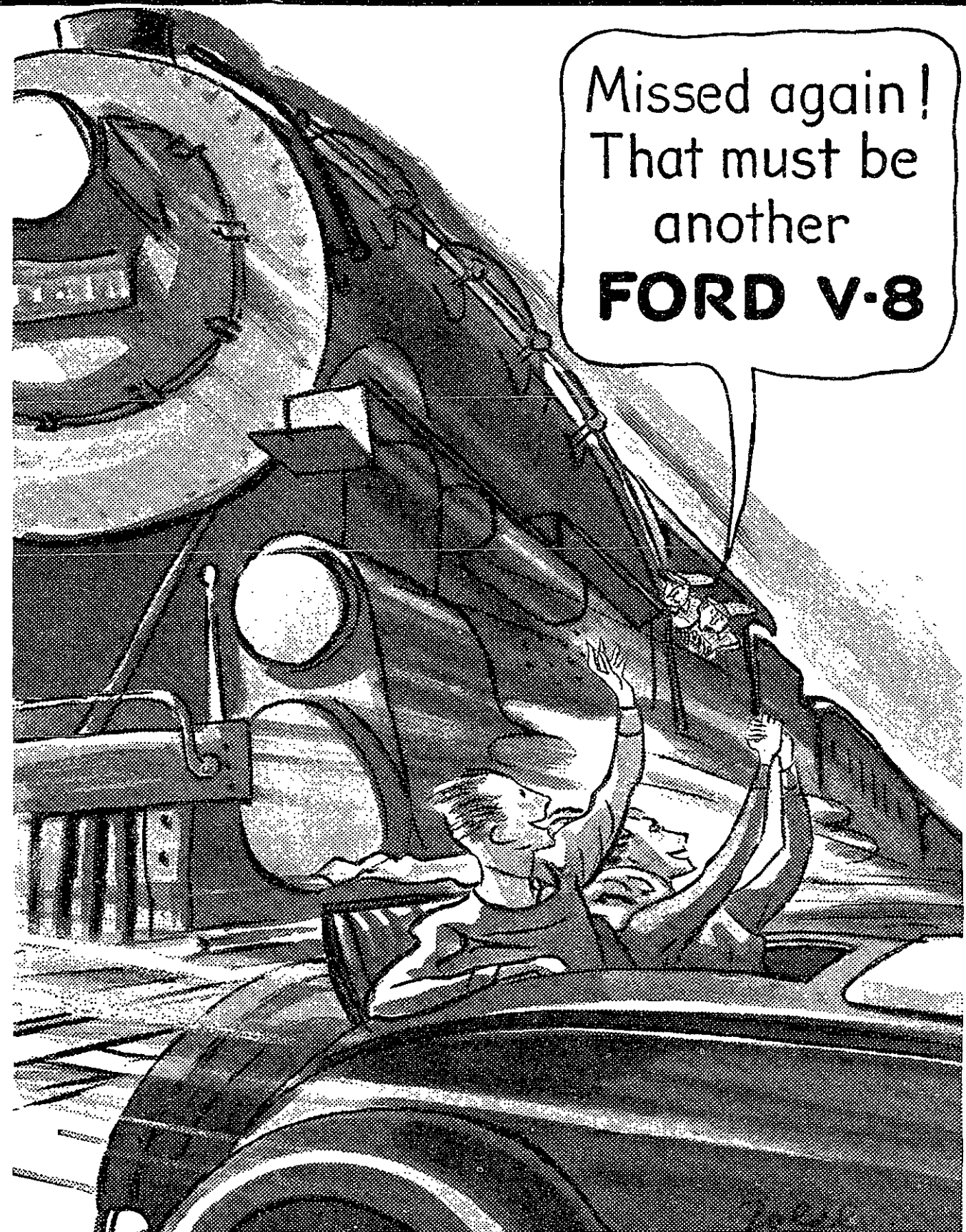
Made up of men who have been playing in the intra-mural league at Technology, the M. I. T. Independents baseball team was defeated by the Tufts Junior Varsity at Medford Saturday by the score of 10 to 3. The Independents are the first group to represent Technology on the diamond for several seasons.

Platt, on the mound for the Engineer outfit, pitched a creditable game, but his support was none too good. Tufts made seven errors but in the crucial spots the fielding became first class to nullify the effects of any previous bobbles.

Brooks Morgan and Charlie Smith were the best hitters for the Independents, each driving out two singles. Bristol, Tufts first-sacker, led the winners at bat with three singles and a two-bagger.

and the Senior Prom. Single tickets will be on sale for the Pops Concert, the banquet, and the Senior Prom and may be obtained from any member of the committee, but redemptions must be made at the desk in the lobby.

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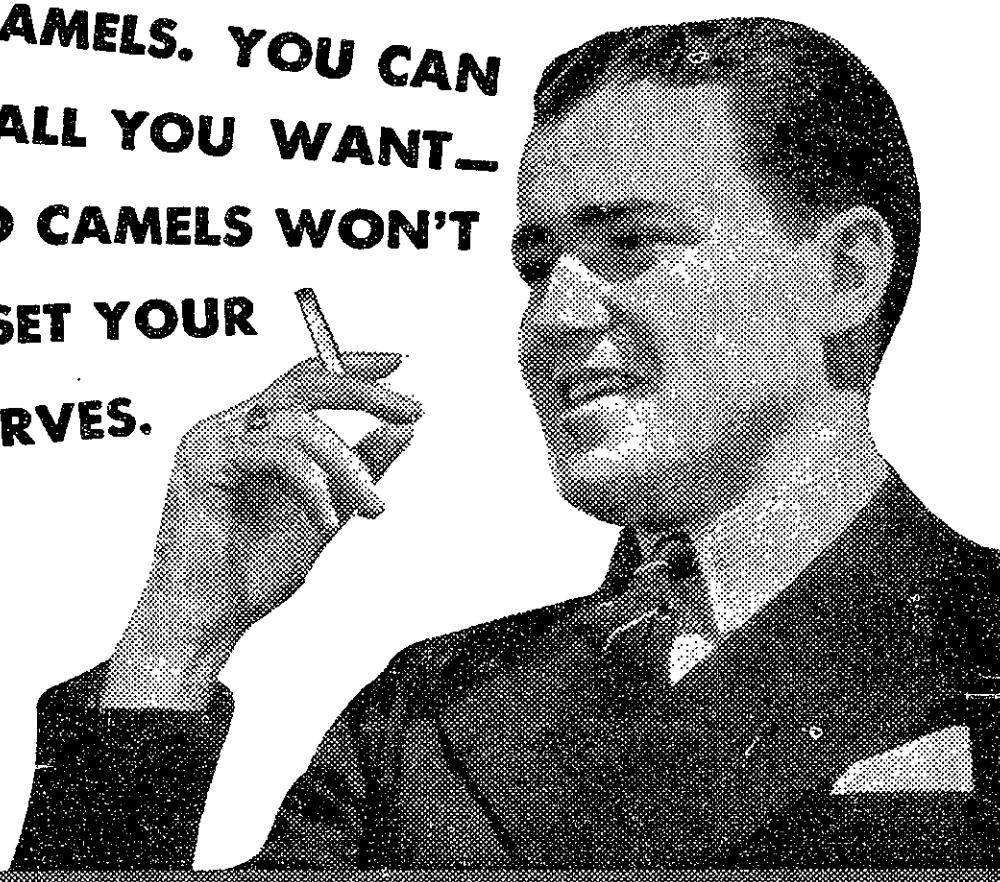
**HIS NERVES EASILY UPSET!**



**I FEEL JUMPY TODAY. DON'T KNOW WHY.**

**TRY CAMELS. YOU CAN SMOKE ALL YOU WANT—**

**AND CAMELS WON'T UPSET YOUR NERVES.**



**CAMEL'S COSTLIER TOBACCOS**  
YOU CAN SMOKE THEM STEADILY... BECAUSE THEY NEVER GET ON YOUR NERVES... NEVER TIRE YOUR TASTE!

**SIGMA XI CHAPTER TO ADMIT MEN WEDNESDAY**

(Continued from Page 1)

Blaisdell, Alexander J. Bone, Robert D. Butler, Charles S. Draper, Daniel L. Edlund, John P. Elting, Richard E. Evans, Donald G. Fink, Arthur G. Fitzgerald, Arthur B. Fox, Robert C. Gunness, William M. Hall, Clement H. Hamblet, Robert S. Harris, Hereward C. Herwood.

Morris L. Kalinsky, William C. Kay, Albert L. Kaye, Henry F. King, Charles Kinglesley, Jr., Norman Levinson, Dean A. Lyon, David L. MacAdam, Benjamin S. Mesick, Jr., Wesley L. Nagle, Gilbert W. Noble, R. D. Nutting, E. M. Pritchard, Henry A. Rahmel, David Rubinstein, Samuel S. Saslaw, Donald B. Sinclair, John S. Stevenson, David N. Truscott, William E. Yelland.

Associates from the graduate student body will be:

Marjorie O. Allen, Maurice E. Bell, George P. Bently, Gordon S. Brown, Russell C. Buehl, Cecil G. Dunn, J. Eisler, Rolf Eliassen, Herbert E. Grier, Harry E. Hubbard, Loren H. Hutchins, Jr., Jacob J. Jaeger, Harry M. Krutter, Warren K. Lewis, Jr., Israel Liben.

George G. Marvin, Henry C. Miller, Jr., Elliot P. Rexford, Randall M. Robertson, James M. Robinson, Harold T. Smyth, Walter W. Soroka, Rufus A. Soule, W. L. Sullivan, John K. Sumner, John A. Troxell, Frederick K. Watson.

Associates from the Senior Class will be:

Henry B. Bakenstoss, John C. Barrett, Gorgon K. Burns, Harrison C. Carlson, Edgar B. Chiswell, Charles F. Feuchter, Walter R. Hedeman, Jr., Albert E. Heins, Joseph Kaminsky, John O. McLean, Charles Marchetti, Arthur Miller, Frank R. Milliken, Jr., William F. Milliken, Jr.

Edward J. Schremp, Leonard Schapiro, Sherman K. Shull, Graves H. Snyder, Carl P. Stratton, Warren L. Towle, John C. Turnbull, Arthur O. Williams, Henry A. Wood, Walter Wrigley.

**NEW DEVICE TUNES IN RADIO AUTOMATICALLY**

(Continued from Page 1)

receiving set, is a tuning knob which operates the device. Before setting the apparatus, the program for the evening must be chosen. Then, it is merely a matter of about two minutes to transfer this schedule to the apparatus by means of the knob. The entire set up of stations can easily be changed if the program is unsatisfactory. At no time is it impossible to use the tuning dial of the radio set. Aside from the tuner, but incor-

**CALENDAR**

**Tuesday, May 15**

- 5:00—Army and Service Reserve Officers dinner, Faculty Dining Room, Walker Memorial.
- 5:00—Baseball 1936 vs. 1935, Coop Field.
- 6:00—A. I. E. E. dinner, North Hall, Walker Memorial.
- 6:30—Scroll banquet (T. E. N.), Silver Room, Walker Memorial.
- 7:00—Dramashop banquet, Hotel Commander.
- 7:45—Christian Science lecture, Judge Hall, Room 5-330.

**Wednesday, May 16**

- 5:00—Baseball 1935 vs. 1934, Coop Field.
- 5:00—Sigma Xi dinner, North Hall, Walker Memorial.
- 5:00—Unity Club meeting, West Lounge, Walker Memorial.

**Thursday, May 17**

- 4:30—Physical Colloquium, "Optical Constants and Electronic Structure of Metals," by Professor E. G. Rudberg; "More Automatic Measurement of Spectrograms," by Professor G. R. Harrison, Room 6-120.
- 5:00—Institute Committee meeting, East Lounge, Walker Memorial.
- 5:00—Alpha Phi Delta, business meeting, West Lounge, Walker Memorial.
- 5:00—Plant Engineering Club dinner, Faculty Dining Room, Walker Memorial.
- 5:00—Beaver Key Society meeting, Faculty and Alumni Room, Walker Memorial.
- 5:00—Baseball 1936 vs. 1937, Coop Field.
- 6:30—Army Ordnance Society, West Lounge, Walker Memorial.

porated in it, though not necessarily parts of the tuner are two other new features. Since the fire underwriters do not allow the carrying of 110 volts across the floor to the remote control unit, present day remote controls contain a separate transformer, which wastes the current. The new device provides for efficient coils inside the clock to do away with the bulky and wasteful transformer.

**New Type of Relay Switch**

The second new feature is a novel type of relay switch to turn on the motor. The switch consists of an

electro-magnet, suitably mounted in conjunction with a glass or other insulating cell, having in the cell some mercury and an iron armature floating in the electro-magnet. The passage of current through the magnet sinks the iron and forces the mercury to the end of the glass to close a switch.

The model takes up approximately a cube of six inches on a side, while it is expected that the commercial apparatus will require only one-third of this space. The inventors of the machine believe that the retail price of

the device will be as low as ten or fifteen dollars.

As far as the builders know or have been able to find out to date, this is the only device that is able to tune in on any station that a radio set is capable of tuning in. It was a feeling that a greater automatic selection of programs was necessary, that prompted the designing of this tuner.

The inventors wish to acknowledge their appreciation to Professor Harrison and Professor Sears of the Physics Department for their permission to use the staff Machine Shop of that department. Special acknowledgement is given to Mr. Kallenback of the Physics Department Machine Shop, and Louis V. Baldwin and Edmund T. Piotrowski who helped to build the apparatus.

That 70 per cent of the crimes committed to day are by boys under 20. (Ooh—I better hurry up!)

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May we have the pleasure of your patronage?

*Here's why—* Luckies do not dry out  
*why—* Luckies are All-Ways kind to your throat

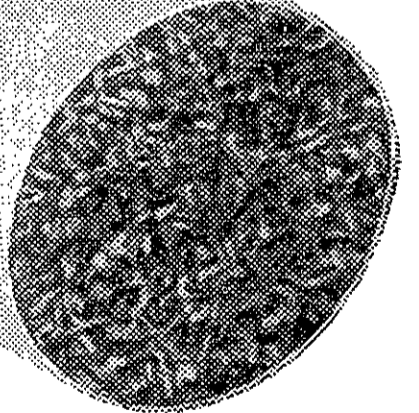


The difference between cigarettes is the difference between what goes into them and how they are put together.

Luckies use only the clean, center leaves, for these are the mildest leaves—they taste better. That's why farmers are paid higher prices for them. And Luckies get the benefit of the famous process—"It's toasted"—for your throat protection.

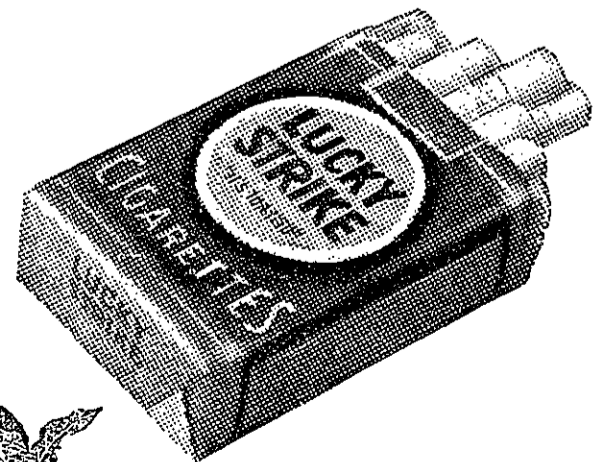
And every Lucky is round, firm and fully packed. That's why Luckies "keep in condition"—that's why you'll find that Luckies do not dry out—an important point to every smoker.

Yes, Luckies are always in all-ways kind to your throat.



**"It's toasted"**

✓ Luckies are all-ways kind to your throat



*Only the Center Leaves—these are the Mildest Leaves*



*They Taste Better*