

# The Tech

SPECIAL ISSUE

CAMBRIDGE, MASS., FRIDAY, NOVEMBER 17, 1950

PRICE FIVE CENTS

IE FRIDAY

# STARS AND BARS ATTRACT RECORD COPLEY THRONG

EIGHT OR TEN? SEE PAGE 3

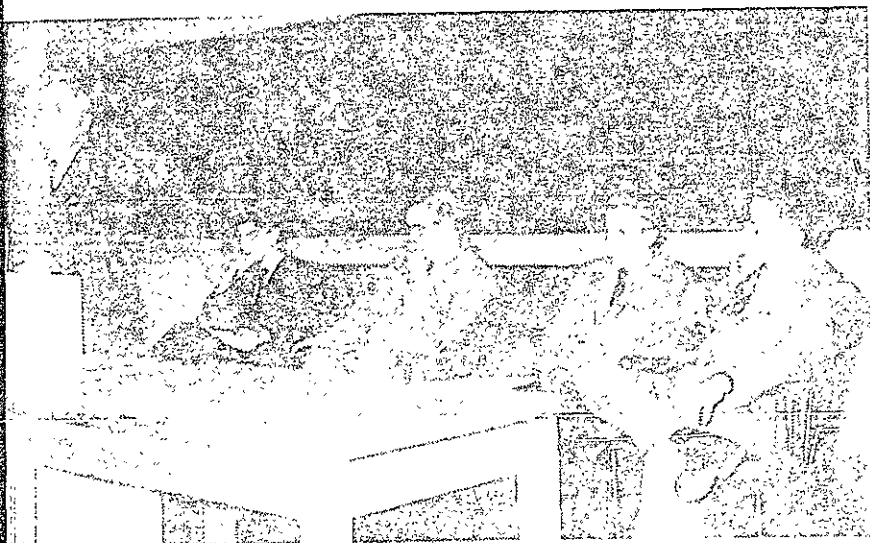


Photo by Winquist

discussion, "Eight or Ten Terms of Humanities?", was prompted by the proposed changes in the undergraduate humanities program. Sander Rubin '50, editor of The Tech '49, raised the question "Shall we bring in the social and political relationship into the courses of study?" Thomas G. Hagen '51, editor of The Tech '50, favored the realignment of the Institutes humanities program. Hagen at the Student-Faculty Forum are, left to right: Dean of Engineering, Thomas K. Sherwood, Sander Rubin '50, Professor Thomas Rufe, moderator, Thomas Hagen '51, and Professor Edwin R. Gilliland.

Featuring Tex Beneke and his music in the "Miller Mood" the Junior Prom of the Class of 1952 opens tonight to a sellout crowd with the traditional first night formal dance at the Copley Plaza ballroom. Named Stars and Bars, the Junior Prom will include a Stardust Ball tonight and Bar night tomorrow evening. Gambling and free beer will be featured at the second night

## Election Outcome OK'd By Members At Ins Comm Wed.

Results of the November 14 elections were announced and approved at Wednesday's meeting of the Institute Committee. Elected for Senior Week were: Fred Bumpus, Robert Butters, John Conely, Paul Grady, Marvin Grossman, Edward Hucke, Martin Miller, Marc Pearlman, Eleanor Semple and Robert Thulman, all of the class of '51. Henry Hohorst was elected and approved as Senior Ring Chairman. Members of next year's Junior Prom Committee include: Joseph Cahn, Alexander Danzberger, Julian Greenbaum, Jacob Pinkovitz, Bennett Sack, all of the class of '53.

(Continued on Page 2)

of the weekend which is to be held at Walker Memorial. Last week Edward J. Margules, President of the class of 1952 and chairman of the Junior Prom committee, announced that tickets for the complete weekend had been sold out. Sales were limited by the table space available at the Copley Ballroom, however, Mr. Margules emphasized tickets for the Bar night are still available since the number of people which Walker can accommodate is much larger.

Accompanying Beneke and his orchestra will be Eydie Goré and Gregg Lawrence as vocalists.

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personnel, including those of the Division of Industrial Cooperation under the immediate supervision of the department faculty, totals 750. During the post-war peak, student enrollment in the Department of Electrical Engineering exceeded 1,200. Associated with Professor Hazen and Professor Brown is Professor Carlton E. Tucker, the department's Executive Officer.

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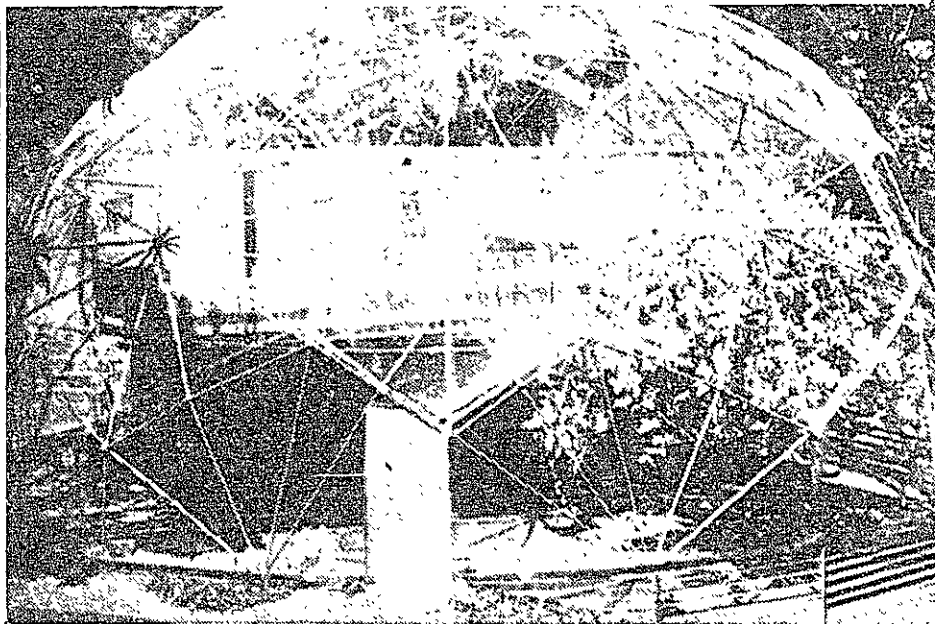


Photo by Cohen

This igloo-like structure is one of a number of aluminum space-enclosures built by R. Buckminster Fuller. Economy was the determining factor in its construction.

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His talk will be held at 5:00 p.m. in Room 10-250, and there will be a question period following the talk. Tickets will be on sale at the door; 50 cents for general admission and seventy-five cents for reserved seats.

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The Friends of the M.I.T. Library have organized a prize essay contest, open to all students at the Institute, in conjunction with an exhibition of fifty fine books, recently given to the Institute by the Peter Pauper Press of Mount Vernon, New York.

General theme of the contest is "the place of fine books in present day living." A specific title or subject may be selected from the fields of printing, book collecting, or the accumulation and use of a personal reading library.

First prize of \$15 and a second prize of \$10 both in money, or, at the option of the winners, the value in books selected from the catalogue of the Peter Pauper Press, will be awarded for the best papers received.

### Deadline is December 15

Manuscripts will be accepted and read by the Department of English and History. Entries should be typed, double space, with the name and address of the author appearing on the title page, and may not be less than 1,000 or more than 2,500 words in length. All entries should be marked "Friends of the M.I.T. Library, Prize Essay Contest" and must be left at the English and History Department Headquarters, Building 14-N407 before 4:00 p.m., December 15, 1950. The winners will be announced before the Christmas recess.

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### Low-Grade Coal Can Produce Good Steel Reports Dr. Killian

Dr. James R. Killian, Jr., president of the Institute, told a Birmingham, Alabama, audience last Friday night that diminishing supplies of first-grade coal no longer threaten to mean diminishing supplies of high-grade steel.

Reporting on current research and educational activities at the Institute, Dr. Killian said that recent research first sponsored by the Republic Steel Corporation and now also by the American Iron and Steel Institute in the Metallurgy Department, has established the fundamental chemistry of sulphur in steel furnaces. The work gives assurance that brittleness arising from sulphur in steel can be controlled in steelmaking processes.

#### New Metals Lab

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The result of a \$1,000,000 gift from Alfred P. Sloan, Jr., Chairman of the Board of General Motors Corporation, a new Metals Processing Laboratory building is now under construction in Cambridge.

Guiding the work of a student and faculty research group under the direction of Professor John Chipman, head of the metallurgy department and a graduate of the University of the South, Dr. Killian said that this research, "including what is believed to be the first equilibrium study of the distribution of sulphur in blast furnaces, has for the first time put the theory of steel desulphurization on a sound basis."

**Ice Box** (Continued from Page 1) feet deep. This space is cooled by five expansion engines driven by compressed helium.

Standing over 10 feet high, the cryostat has a refrigerated space capped during operation, by a steel lid containing a glass window through which the experiments may be observed. A vacuum insulates the entire machine from room temperatures.

**Dinghy** (Continued from Page 1) "helmsman" can take out a boat alone at any time. "Racing skipper" can enter any of the Association's races. "Bosun" is the top rank. The various ranks are reached by passing examinations first on the fundamentals, and later on the fine points of sailing.

The boats are, of course, the major equipment of the Association. Though getting on in age, the original fleet is still in use, however, a new group of dinghies is expected in the near future.

**Boats Are 15 Years Old** Because the boats are fifteen years old, they are somewhat difficult to keep in repair. While there has not been a lack of available boats, there are always a few on which work is being done. Almost all the masts have been spliced, and many stainless steel stays have had to be replaced. When it is remembered that such fleets usually last ten years, and that the members of the Association do more actual sailing than is done in almost any other such college organization, the fact that the boats have lasted this long is even more remarkable.

### R.O.T.C. Announces Senior Promotions

Names of seventy-three Seniors were listed in a special order issued last Wednesday by The Military Science Department giving promotions and assignments of officers in the Reserve Officers' Training Corps.

Four Seniors awarded the rank of Lieutenant Colonel were: Stephen J. Chamberlin, Jr., Corps of Engineers; Stanley E. Kasowski, Signal Corps; Christian L. Rust, Chemical Corps; and Herbert B. Voelcker, Jr., Army Security Agency.

Seniors given the rank of Major were: Frederick J. Bumpus, Quartermaster Corps; James L. Burkhardt, A.S.A.; John C. Champney, Signal; Stamford E. Jones, Ordnance Corps; and Forest O. Monkman, Jr., Ordnance.

Eight Captains assigned were as follows: Robert R. Archer, A.S.A.; Reuben E. Maine, Signal; William L. Mann, Engineers; John H. Morgenthau, Chemical; Richard H. Reuther, Chemical; Harold M. Rich, Ordnance; James E. Roberts, Engineers; and John J. Singer, Chemical.

First Lieutenants in the Senior class are: Nicholas P. Badami, Engineers; Jack H. Baranski, Quartermaster; William L. Bentler, A.S.A.; Robert O. Bentley, Engineers; Rauld Cunn, Ordnance; William J. Cavanaugh, Engineers; Thomas N. Clark, Signal; John M. Cleza, Chemical; Francis J. Davis, Signal; John P. Dunn, Jr., Ordnance; William B. Ferguson, Signal; William H. Ferguson, Jr., Ordnance; James E. Fitzgerald, Jr., Chemical; John D. Freitag, Quartermaster; Albin A. Gesek, Engineers.

John D. Harris, A.S.A.; Clifford C. Herdman, Engineers; Richard P. Inshall, Signal; Vernon W. Kinney, Chemical; Hubert E. Kuhneyer, Chemical; Kenneth D. Koppie, Chemical; John H. Lindholm, Jr., Ordnance; Thomas E. Lockerie, Chemical; Robert L. MacCallum, Jr., Engineers; Daniel E. Magnus, Signal; Theodore A. Manzielsdorf, Jr., A.S.A.; Fred D. McCullay, Jr., Chemical; Howard A. Mills, Jr., A.S.A.; Howard E. Simmons, Jr., Chemical; and Roger A. Turner, Jr., Chemical.

Twenty-six Second Lieutenants were also promoted from the Seniors in R.O.T.C.: George K. Benson, Chemical; Garth Coombs, Chemical; Paul W. Cooper, Signal; Peter C. Darby, Jr., Engineers; Edward Davyan, Quartermaster; Robert W. Elliott, Quartermaster; Robert L. Harding, A.S.A.; Richard H. Howe, A.S.A.; Nathan G. Licherson, Chemical; Richard G. Lock Signal; Emeritus J. Marchetti, Chemical; Gerard E. Monsalvato, Chemical; Albert O. Olson, Engineers.

Charles A. Orne, Jr., Engineers; Eugene A. Oster, Jr., Chemical; Peter J. Philliou, Signal; Frederick A. Ruffell, Engineers; Robert E. Schiesser, Ordnance; Clinton B. Sealey, A.S.A.; William Seiler, Jr., Engineers; Jerrold D. Tille, Engineers; Martin J. Froster, Chemical; Richard S. Valpey, Jr., Signal; Joseph R. Vree, Ordnance; John H. Wolf, Jr., Chemical; and Gordon L. Zucker, Ordnance.

### M. E. Honorary Elects 21; Professor Collins Cited

Pi Tau Sigma, national honorary mechanical engineering fraternity, has elected thirteen Seniors and eight Juniors as new members of the organization. Professor Samuel C. Collins was elected to honorary membership for his achievements in mechanical engineering.

The following Seniors were elected to membership: M. C. Cameron Chisholm, John T. Degnan, John F. Dunn, Karl A. Geiger, Paul H. Hayaski, Peter J. Philliou, Miguel A. Rivas, Lee M. Rohde, Robert J. Schiesser, Lawrence A. Schneck, William H. Shenkle, Herbert B. Voelcker, and Donnell R. Wilson.

Those Juniors elected to membership were the following: Milton Dietz, Frank B. Fairbanks, George Friedensohn, Darrell A. Frohrib, Rodney I. Frost, Robert E. Goode, Charles A. Honigsberg, and Swraj Paul.

### Eta Kappa Nu Elects 20; Six E.E. Juniors Honored

The Institute chapter of Eta Kappa Nu, the National Electrical Engineering Honor Society, elected twenty men to membership on the basis of outstanding scholarship and broad interest in extra-curricular life.

The following Seniors were elected: Thomas Clark, Jr., Gilbert W. Bett, Richard G. Counihan, Daniel R. von Recklinghausen, Melvin L. Stone, William T. Peake, Julius Leonhard, Henry P. Hall, Frank E. Heart, Charles Helken, Elliott Cutting, John W. Craig, Jr., George R. Pfisterer, Jr., and Bronislaw Smulowicz.

In addition the following Juniors, and therefore "honor" members were elected: James S. Bomba, John T. Fitch, Philip L. Fleck, Jr., Charles W. Poppe, Robert H. Schloemann, and Herbert M. Teager.

## Bio-Lab Ground Breaking



Mrs. John Thompson Dorrance, climaxing the groundbreaking ceremonies for the new biology laboratory, is shown above, center, digging the first shovelful of dirt. To Mrs. Dorrance's right (left to right) are Dr. Karl T. Compton, Dr. James R. Killian, Jr., and Mr. Oliver G. Willits, President of the Cambridge Soup Company. Others pictured are members of the Dorrance family, with architect, Professor Herbert I. Beckwith, in the background.

### UNITED STUDENT FORUM

The United Student Forum will present Prof. R. L. Calhoun of the Yale Divinity School in a speech on "God and the Day's Work," at 7:30 P.M., Sunday, Nov. 19, at the First Congregational Church, Cambridge, 11 Garden St., near Harvard Square.

### Ins. Comm.

(Continued from Page 1) Passed with but slight opposition was the Budget Committee RORAP (Revised Operating Rules and Procedures).

### THE FIRST CHURCH OF CHRIST, SCIENTISTS

THE MOTHER CHURCH FALMOUTH, VERMONT AND ST. PAUL ST. BOSTON

Sunday services 10:45 a.m. and 7:30 p.m. Sunday School 10:45 a.m.; Wednesday evening meetings at 7:30, which include testimonies of Christian Science healing.

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2... Light up your present brand Do exactly the same thing—DON'T INHALE. Notice that bite, that sting? Quite a difference from PHILIP MORRIS!

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Try this simple test. We believe that you, too, will agree . . . PHILIP MORRIS is, indeed, America's FINEST Cigarette!

DON'T MISS THE NEW HEX-A-POPPIN VARIETIES AN HOUR AND A HALF OF ENTERTAINMENT FEATURING TOP TALENT FROM SIMMONS B. U. M.I.T. EMERSON NEWMAN CLUBS

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means MORE SMOKING PLEASURE!

CALL FOR PHILIP MORRIS

### Wood, Gilliland Highlight Discussion Educational Policy

ight of Ten Terms of Humanism was the issue on which a panel split at the Student-Faculty Forum held last Monday afternoon. Professor Thomas was the moderator. The discussion centered around the changes in the undergraduate curriculum program suggested by the Warren K. Lewis Committee on Educational Survey.

The first speaker, Dean of Engineering Thomas K. Sherwood, presented a summary of the Lewis Report. He stated that since the undergraduate curriculum lacked the Lewis Committee demand that it was essential to strengthen the formal study of culture. The hazard of Technology's training technicians rather than professional men was stressed in the report. "Without adequate cultural background the technical specialist is unfit for executive leadership in the field," remarked Dean Sherwood.

Rubin '50, editor of The Tech, was invited to join the panel because he had showed interest in the Lewis Report. Rubin stated that most students who study Technology want the best possible in technical subjects.

Professor Edwin R. Gilliland of the Chemical Engineering Department in his speech said that he was opposed to the proposal to have all students study ten terms of humanities. To specify a definite

### G. Burns, F. Weitz To Head Campaign For Baker Memorial

Commencing on Monday, December 4, the Everett Moore Baker Memorial Committee will conduct a two week student campaign to establish a memorial in memory of the late Dean Gerald S. Burns, '51, and Frederick W. Weitz, '51, who have been appointed co-directors of the campaign, under the direction of the Baker Memorial Committee.

Campaign plans to date call for personal contact of every student. To facilitate this, the co-directors announced that the organization for the campaign will consist of Division Captains (responsible to the co-directors), and Team Captains (responsible to the Division Captains). The Team Captains will direct the activities of the students who will do the personal contact work.

The Division Captains and their divisions will be: Robert F. Barnes, Jr., '53, Riverside House; Frederick J. Bumpus, '51, Commuters; Walter E. Casey, '51, Commuters; Michael J. Fitzmorris, '50, Westgate; Herbert D. Limmer, '50, Graduate House; Daniel P. Maxfield, '51, Senior House; Harry F. Raab, Jr., '51, Dormitories; Ralph F. Romano, '51, Baker House; William H. Shenkle, '51, Fraternities.

Assisting the co-directors in the management of the student campaign will be: Stanley J. Marcewicz, '51, Treasurer and Bookkeeper; Robert S. Gooch, '51, Publicity; and Stanley I. Buchin, '52, Personnel.

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## Junior Prom Survived Dissolution Of Presently Defunct Junior Week

By NELSON MacDONALD

This year's Junior Prom, which will be held in a setting of elegance and charm at the Copley Plaza this evening, has behind it a glorious history of lavishness and gaiety which marks it as the outstanding social event of the school year.

Originally the J.P. was held late in the spring as a part of the huge "Junior Week," the annual social extravaganza of the Junior class, which is the predecessor of the present "Senior Week." Although Tech Show, Technique, Technique Rush (a now defunct scrimmage on the order of the Glove Fight, sans gloves), numerous sport events and special dances vied for full attention of body and purse, the Prom stood out as the major and, to many, the only event of worth in the week.

### Alpha Club Is Now Recognized By IFC

Alpha Club, the first fraternity to be recognized by the I.F.C. since 1932 formally entered the Institute group of fraternities last week.

The newly admitted fraternity, which now has 35 members as well as 12 pledges, first met in 1941 as a social group. The war prevented any substantial development of the Club till 1947, when the group again became organized in Brookline as a colony of Alpha Epsilon Phi. A few years ago the I.F.C. adopted a decision not to admit a newly formed fraternity to campus status unless it first went through a three year "test period" in its own house. The Alpha Club began a two year initial period in the fall of 1947 and a final one-year probationary period a year ago. It moved from Brookline in 1948 and now has a house on Bay State Road in Boston. The last fraternity to be recognized was O V O.

Luxurious Boston hotels such as the Copley Plaza, the Statler and the Somerset have been the settings of the Proms in the past. Again this year it will be held in Boston's finest ballroom in the Copley Plaza.

When the Junior Week disappeared from the Institute scene, it was decided to hold the Prom in the fall as a two-night affair, a distinct social event in its own right. There were some apprehensions at the time that the Junior Prom would not be able to carry on at its former high level without being a part of a special Junior Week. However, these fears have been soundly dashed by the continuing high quality of balls and dances, with name bands, outstanding ballrooms and reasonable cost.

Our many inflations taken into consideration, the present cost of the Prom is, indeed, a credit to the J.P. Committee. In 1910 the cost of a complete Prom ticket was \$5.00. Today, it is about \$8.00.

### Smith Girls Take Over WMIT Activities Tonight

On this Friday evening, about twenty lassies from Smith College will take over all the station activities of WMIT, all the way from announcing and producing programs to spinning discs and twirling knobs.

Naturally, the Northampton girls will present only the best programs that are heard on their own radio station WSCR (standing for Smith College Radio). Among these are to be an audience participation show (with real, live Techmen) and a give-away show.

## THE FRIDAY

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# 1952 J. P. Committee Welcomes You To The STARS & BARS WEEK END

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Copley Plaza  
Friday



## BAR NIGHT

Techonians  
Walker Memorial  
Saturday

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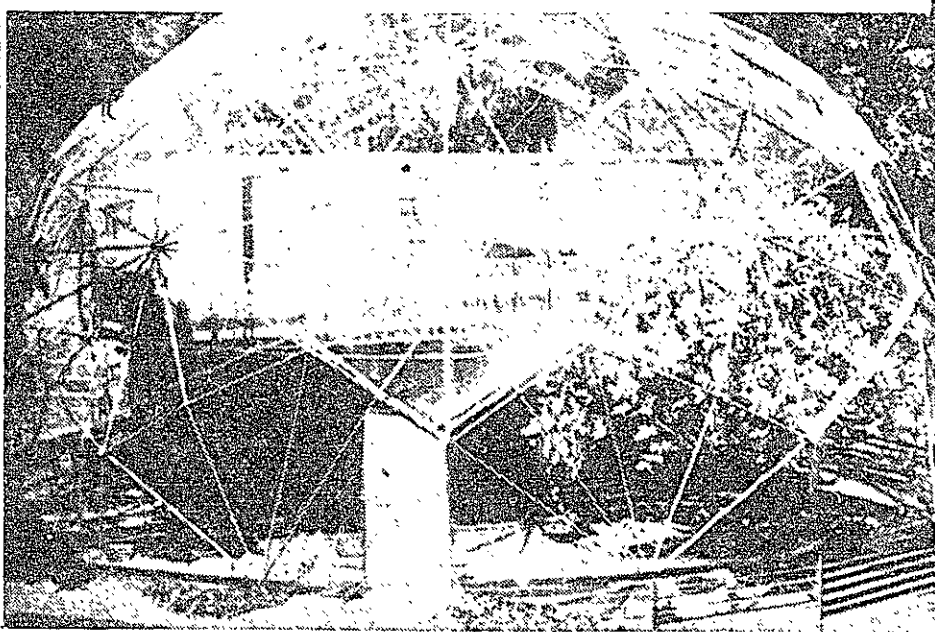
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# The Tech

VOL. LXX FRIDAY, NOVEMBER 17, 1950 NO. 46

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## JOBS FOR ENGINEERS

For the past few years the demand for engineering graduates has been apparently swinging from pole to pole in a fashion which might lead a great many engineering students to the bleak conclusion that the supply of engineers generally exceeds the demand, except when the threat of war causes engineering talent to become a priority item. Although it is true that the demand for engineers increases sharply in times when the nation undertakes an armament program, it is not true that this demand drops off as sharply when the emergency is over as one might be led to expect from a cursory examination of the conditions of the past few years.

Throughout the last war the demand for engineers far exceeded the supply, and this situation continued for a couple of years after the war as industry filled its depleted ranks and expanded beyond pre-war levels. The acute shortage of engineers was widely publicized during the first few post-war years, and the enrollment in engineering schools increased rapidly, reaching a peak of 226,000 in 1948. Included in this number were a great many veterans under the GI Bill, and last year it dropped to 181,000.

This was still high, compared to pre-war enrollments, and people began to make dismal predictions about a great oversupply of engineers, predictions which seemed to be substantiated by statistics released by the Department of Labor. The Labor Department releases of last year and the year before contained information about the number of students in engineering schools and made estimates of the probable number of engineering jobs which would be open to these men upon graduation. The fact that there were considerably more stu-

dents than probable engineering jobs became popular knowledge, and secondary school graduates began staying away from engineering schools in droves. Total enrollment this year down to 130,000, and once again we find ourselves faced with a critical shortage of engineers.

Too many people think that the present mobilization program is solely responsible for this new shortage, and that would otherwise be oversupplied with engineers for many years to come. The fact is that the Labor Department's reports of the past few years have been widely misinterpreted, for they did not make it clear that there are always a great many students in engineering schools who do not intend to seek positions classified as "engineering jobs" upon graduation. It is important to realize that even if we had not increased national military preparedness activities the pessimistic predictions of a year ago would by now have been proven false.

There are undoubtedly many students in secondary schools who do not realize this, and who believe that the demand for engineers vacillates widely, depending for the most part on the apparent imminence of war. These are misconceptions which most certainly should be dispelled if we are not to be faced with a permanent shortage of engineers.

## Letters to the Editor

I am puzzled at the apparent absence of thought on a most vital aspect of the subject of extra humanities courses. No one, it appears to me, has paused to consider whether the MIT student will derive benefit and/or knowledge from the added courses.

Many of the humanities instructors are, at present, worried—in fact appalled—by the lack of interest on the part of MIT students in these subjects. I wonder what effect adding extra hours of humanities to the program will have. Will the student learn more? Or, will he simply pass two more humanities courses?

Cramping extra hours of humanities down a student's throat may open great new vistas of culture to him; a few students may even forsake engineering and become Doctors of Philosophy. The extra terms may give the student a better viewpoint of society and civilization; they may cause him to discover a wonderful new purpose to life. The MIT student may, on the other hand, already have a purpose in life; he may know all he wishes to know about culture and society. The ultimate result of his having taken the extra humanities courses may be two terms of valuable engineering lost to the student.

There are some of us who do not wish to become presidents of corporations, or even vice-presidents. There are some of us who simply want to be darned good engineers—who want to study and work the fields in which we are interested. There are some of us who do not want more humanities. You can

lead a horse to water, and you can force us to take more humanities. I hope the analogy will be pardoned, sir, but, as I remember, you can't make the horse drink.

Albert Sevcik, '52

True enough. But we've got our thirsty horses here to justify the addition of a few more watering troughs. For a comment, see editorial column—14th.

(Continued on Page 7)

## Construction Of Lab Begun By Ground Breaking Ceremony

Turning the first shovel of dirt, Mrs. John Thompson, Dorrance gave the signal to begin construction of the new John Thompson Dorrance Laboratory on Wednesday morning. Mrs. Dorrance, her family, and officers of the Campbell Soup Company were the guests-of-honor at the ground breaking ceremonies for this \$1,000,000 structure. The exercises were held under a tent on the site of the new lab.

Dr. Karl T. Compton, Chairman of the Corporation, acted as master of ceremonies. Before introducing the first speaker, Dr. Compton praised the construction of the building, which has been made possible by a \$1,000,000 grant from Campbell's Soups, as symbolizing the teamwork between the Institute and industry.

Dr. Compton then introduced the principal speaker of the occasion, Mr. Oliver G. Willits, Vice President of the Campbell Soup Company. Mr. Willits told of Mr. Dorrance's record at the Institute, a member of the class of 1895, and of his work as president of the Campbell Soup Company.

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AT \$4 PER COUPLE

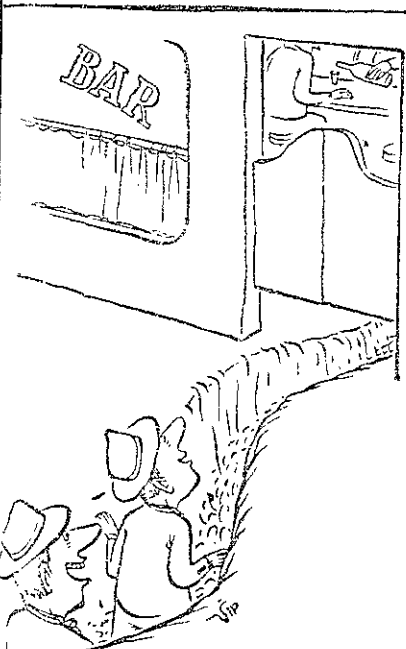
THE GOOD OLD DAYS



...ody, VOO DOO came out with a back issue number and not to be outdone we have dug up this picture from our files. Roundhouse O. Pinwheel and Victor Zounds, editor of Voo Doo and THE TECH, respectively of 1925 are shown comparing notes on their publications in the days when chivalry flourished and paper fizzled. We present this picture in conjunction with Pinwheel's recent resignation as publicity manager of the Old Howard and Zounds' recent promotion to the editorship of the Mid-Town Journal.

Educational Policy

(Continued from Page 3) ...rogram would be harmful. He said, "Students should have more opportunity to plan their programs."



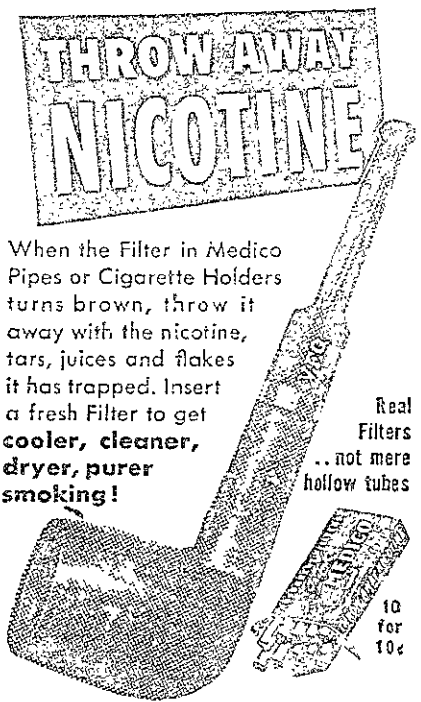
"People wore a path to their door when they started serving Angostura\* in Manhattans."

ANGOSTURA AROMATIC BITTERS MAKES BETTER DRINKS

So many foods and drinks are more bracing with a few dashes of zesty Angostura! Try it in salad dressings, on fish, ham... and of course, in Manhattans and Old Fashioneds!

Suggest Overhaul

Completing the panel of speakers was Thomas G. Hagen '51, editor of The Tech '50. He said that the problem of humanities study at Technology could not be approached with the average Technology student in mind. The Institute would do best to realign its humanities program he concluded.



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Dormitory Broussings

By ED FACEY

The Dormitory Social Committee is going to start dancing lessons here in the Dorms. These lessons will be administered to three types of dancers—beginners, intermediate, and advanced—and will cost \$6 for 3 hours, very reasonable. Pat McCrann, a highly touted dance master, will lead, and she'll have support from many of her better college students as feminine partners for the Tech men. This looks like a new acquaintance angle to be exploited. More particulars are soon to come out in mimeographed form in the mail boxes.

There has been much discussion by residents of the East Campus on whether or not they're going to have contract dinners at Walker in the future. They will soon get a chance to express their views in a poll which will canvass all the Old Dorms. The Contract Dinner idea needs 60% support to become a reality.

The Baker House students are elated over the recent successes of their football team. A good crowd watched the club defeat the favored Grad House last Sunday, 18-12. Shirts with lettered "Baker House" on them, have been purchased by the Baker House Committee and will be ready for use for the two playoff games with S.A.E. and Theta Chi during J.P. weekend.

Riverside will elect 5 floor chairmen to Dorm Committee today. So far, five petitions have been received—one from the first, third, and fifth floors and two from the second floor. Each floor chairman will represent from 40 to 50 students as of now.

The two biggest complaints from Riverside fellows have been directed against the smallness of the

(Continued on Page 6)

off the beat

By RICHARD JUDSON POWELL

To begin, a coda to last week's exposition:

Fortunately, the Juilliard String Quartet is an extremely exclusive and highly evasive group, one of their rare appearances being on page 6 of Mr. Schwann's September LP catalog. The Juilliard Quartet will not honor us this Sunday, and it is with small consolation that the Juilliard String Quartet will appear in their stead. I hope that this does not come as too much of a shock; we must keep our lognettes up. Verdi's Quartet in E minor, the Quartet No. 8, Opus 59, No. 2 of Beethoven, and the Ravel Quartet in F comprise the program of the Juilliard four. As the first in a series to be presented by the Division of Humanities, the concert will be given this Sunday afternoon at 4 p.m. in Huntington Hall, uncouthly referred to as 10-250. If notice of this event has evaded you to present, any tickets remaining from the distributions on Wednesday and Thursday will be available with Mrs. Phillips in Room 14-E236. Admission is free.

Unfortunately, my dear editor's mother was scared by a pair of scissors. Consequently my editor has an engram and is constantly cutting off the ends of my columns. Last week's ending: Tickets for the Mozart concerts are priced at a very reasonable 74 cents, and may be purchased at the door or in advance at Briggs and Briggs in Harvard Square. Recapitulation: The Cambridge Collegium Musicum is presenting the chamber music of Mozart in a series of concerts at Sanders Theatre. The third and final concert will be given this Monday evening at the customary

(Continued on Page 6)

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IE FRIDAY

To Speak to a World

mediate future, all is not lost. Human and the hope, the love and the of men, who are to be found in all parties and through all nations; and in spite of everything, and whatever may come, I believe."

This quotation exemplifies the philosophy of its author Pierre van Paassen who is speaking here today, on the subject "There Is Still Time." Van Paassen's speech is the second lecture in the Lecture Series Committee Subscription Series.

His talk will be held at 5:00 p.m. in Room 10-250, and there will be a question period following the talk. Tickets will be on sale at the door; 50 cents for general admission and seventy-five cents for reserved seats.

What Does the Future Hold?

In his lecture van Paassen will speak on his views of the future, and what he thinks America's role should be. What he sees emerging is a "new kind of internationalism, a unification of mankind in mankind's own interests, the world over."

From 1925 to 1930, as chief correspondent for the N. Y. Evening World, Van Paassen covered almost every important political event in the world occurring at the time. From 1932 to 1935, while foreign correspondent for the Toronto Daily Star, he spent three years in Russia studying the Soviet political and economic system.

Political Refuge

Van Paassen is proud of the fact that he has been expelled from nearly every European country because of his condemnation of fascism.

Library Friends Run Prize Essay Contest Open To All Students

The Friends of the M.I.T. Library have organized a prize essay contest, open to all students at the Institute, in conjunction with an exhibition of fifty fine books, recently given to the Institute by the Peter Pauper Press of Mount Vernon, New York.

General theme of the contest is "the place of fine books in present day living." A specific title or subject may be selected from the fields of printing, book collecting, or the accumulation and use of a personal reading library.

First prize of \$15 and a second prize of \$10 both in money, or, at the option of the winners, the value in books selected from the catalogue of the Peter Pauper Press, will be awarded for the best papers received.

Deadline is December 15

Manuscripts will be accepted and read by the Department of English and History. Entries should be typed, double space, with the name and address of the author appearing on the title page, and may not be less than 1,000 or more than 2,500 words in length. All entries should be marked "Friends of the M.I.T. Library, Prize Essay Contest" and must be left at the English and History Department Headquarters, Building 14-N407 before 4:00 p.m., December 15, 1950. The winners will be announced before the Christmas recess.

The fifty Peter Pauper Books are on display in the wall exhibition case near the English and History

(Continued on Page 6)

cient to pull the station and the large section of the state it was serving out of synchronization, finally shutting down the station. Cambridge Electric Light had about 30% reserve capacity on the lines, but they were unable to take up the load before the whole sys-

(Continued on Page 3)

Tucker To Lecture On Music Next Mon.

Contemporary American music will come under the scrutiny of the Institute's Prof. Gregory Tucker next Monday, November 27, in Room 2-190 at 5:00 p.m. A lecturer in music at Technology, Tucker will speak on "Sources of American Music."

Before coming to the Institute in 1947, he was a Professor of Music at Bennington College and at this time toured extensively as a concert pianist. Many of his appearances were in South America and he has recently played with the Boston Pops Orchestra.

Tucker has also composed several works, the most recent being a ballet which had its premiere at the American Festival of Dance in New London, Connecticut, this past summer and which will be produced by the New York City Center in March.

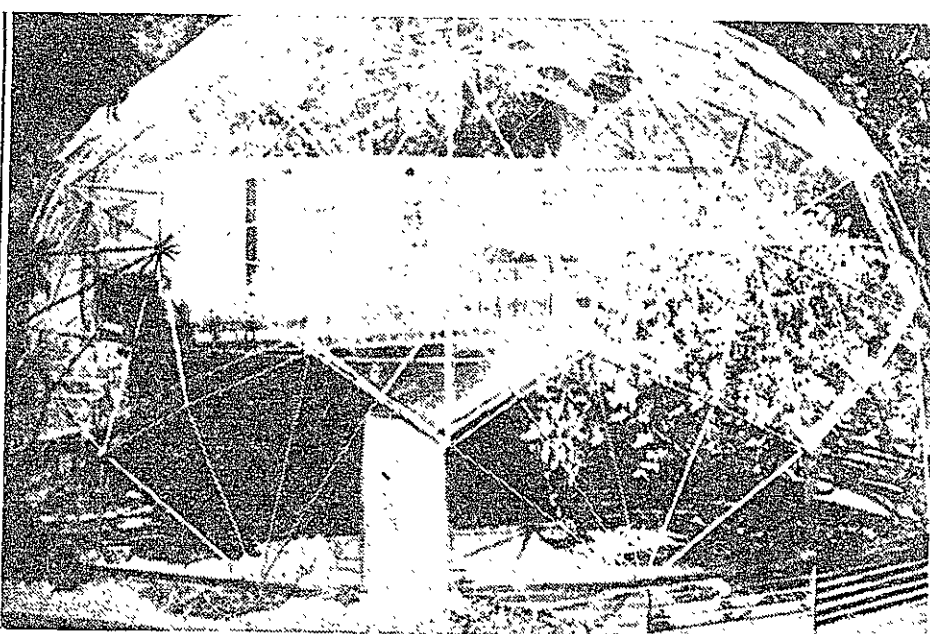
personnel, including those of the Division of Industrial Cooperation under the immediate supervision of the department faculty, totals 750. During the post-war peak, student enrollment in the Department of Electrical Engineering exceeded 1,200. Associated with Professor Hazen and Professor Brown is Professor Carlton E. Tucker, the department's Executive Officer.

Dorm Open House Rules Postponed To Later Date

Nicholas Melissas '52, Chairman of Dormitory Judicial Committee announced the revised dormitory rules, with the exception of open house provisions, Sunday night. The committee has postponed action on the open house problem until a later date.

The new rules provide that no objects of any kind may be kept on the window ledges, that no missiles of any kind shall be thrown from the windows, and that any tampering with the telephones or misuse of the phone service will result in disciplinary action by the Dormitory Judicial Committee.

The firing of fire-arms, the setting off of fire crackers, the using of chemicals to create a nuisance, all are again tabooed.



This igloo-like structure is one of a number of aluminum space-enclosures built by R. Buckminster Fuller. Economy was the determining factor in its construction.

By ALYCE STAFF and BARBARA BEYER Two weeks ago, R. Buckminster Fuller returned to the Institute to conduct a ten week series of seminars for the Department of Architecture. This is the fourth time in two years that Mr. Fuller has been here to conduct courses in experimental structures and energetic geometry.

While at the Institute, Mr. Fuller will construct a model of a proposed hemisphere to be erected on

Memorial Drive. The structure will have a 70-foot diameter and will weigh only 3,800 pounds since it will be made of aluminum. This structure, made of a grating of crossed bars forming a curved surface, is called a "three way grid geodesic structure" and will serve as a space enclosure.

Theory of Comprehensive Designing Mr. Fuller's main interest in life

(Continued on Page 3)

### Low-Grade Coal Can Produce Good Steel Reports Dr. Killian

Dr. James R. Killian, Jr., president of the Institute, told a Birmingham, Alabama, audience last Friday night that diminishing supplies of first-grade coal no longer threaten to mean diminishing supplies of high-grade steel.

Reporting on current research and educational activities at the Institute, Dr. Killian said that recent research first sponsored by the Republic Steel Corporation and now also by the American Iron and Steel Institute in the Metallurgy Department, has established the fundamental chemistry of sulphur in steel furnaces. The work gives assurance that brittleness arising from sulphur in steel can be controlled in steelmaking processes.

#### New Metals Lab

This means, Dr. Killian said, that lower grades of coke, containing more sulphur, may now be used for making even the highest grades of steel.

The result of a \$1,000,000 gift from Alfred P. Sloan, Jr., Chairman of the Board of General Motors Corporation, a new Metals Processing Laboratory building is now under construction in Cambridge.

Citing the work of a student and faculty research group under the direction of Professor John Chipman, head of the metallurgy department and a graduate of the University of the South, Dr. Killian said that this research, "including what is believed to be the first equilibrium study of the distribution of sulphur in blast furnaces, has for the first time put the theory of steel desulphurization on a sound basis."

**Ice Box** (Continued from Page 1) feet deep. This space is cooled by five expansion engines driven by compressed helium.

Standing over 10 feet high, the cryostat has a refrigerated space capped during operation, by a steel lid containing a glass window through which the experiments may be observed. A vacuum insulates the entire machine from room temperatures.

**Dinghy** (Continued from Page 1) "helmsman" can take out a boat alone at any time. "Racing skipper" can enter any of the Association's races. "Bosun" is the top rank. The various ranks are reached by passing examinations first on the fundamentals, and later on the fine points of sailing.

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# Tech Show Of '01 Presented Gilbert & Sullivan Premiere

By DAVID WEBER

Those Technology students who saw the D'Oyly Carte Opera Company perform Gilbert and Sullivan operettas during their recent appearance at the Boston Opera House, undoubtedly did not realize that about fifty years ago another group was presenting an operetta in Boston by this same musical team. It was in fact the first time that this particular work had been produced in the United States.

The company which presented this operetta, "The Grand Duke," was our own Tech Show. Today such an event would be comparable to the selection of the Drama Shop to give the American premiere of T. S. Eliot's Cocktail Party. In the March 7, 1901, issue of The Tech, an announcement appeared calling attention to the Tech Show's performance for that year, "a Gilbert and Sullivan opera which has never been hitherto produced in this country." "The Grand Duke" is a brilliantly amusing and picturesque bit of nonsense, admirably adapted to the needs of a college show, and to have the distinction of giving it its first presentation on the American stage, is no small feather in the theatrical cap of "Tech."

#### Morgan Library Requests Program

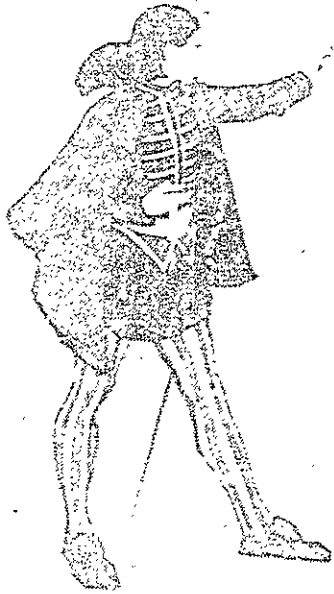
This bit of Technology history becomes of interest again as yesterday the Pierpont Morgan Library in New York City opened a public exhibition devoted to the work of Gilbert and Sullivan. The library which perpetuates the collections begun by Mr. J. Pierpont Morgan, recently asked the Institute for a program from the production of "The Grand Duke." Though it was not possible to locate a program, a poster, the one shown on this page, was found and loaned to the exhibition.

It was far from a small production that the Tech Show presented at the Hollis Street Theatre in Boston on May 3, 1901. A cast of fifteen, together with special dancers and chorus made up the nearly one hundred people who took part in it. In those days there were no movies, radio, or television, so the theater was the principal means of entertainment.

#### Featured a "Statutory Duel"

Put into rehearsal in early March the production committee of Allan Winter, '01, James Bradford Laws,

## TECH SHOW The Grand Duke



Hollis St. Theatre Boston May 3, 1901

A Tech Show poster vintage of 1901, used to advertise their production of Gilbert and Sullivan's THE GRAND DUKE.

'01, Jason Mixer, '02, gave the public dress rehearsal on Tuesday afternoon, April 30th. That Friday the final performance was presented before a large and appreciative audience. Among the features of the operetta were a "Statutory Duel" with playing cards, as represented in the poster, and a ballet, a Dutch Sabot dance of ten peasants dressed in the national colors of orange and yellow.

The Tech which had found the Tuesday performance disappointing noted a "snap and a dash in the work on Friday which was not evident in the rehearsal." While it still found points of criticism, the issue of May 9 stated that "Considered as a whole, 'The Grand Duke' was a decided success."

Though times have changed and the Tech Show now presents musicals often with a Technology background, it still looks with pride on its Gilbert and Sullivan premiere of half a century ago.

### Hockey Squad Outclasses In Preseason Encounter

The MIT hockey squad will stage a dress rehearsal for the coming season's battles this Saturday afternoon at the Arena when they play the Alumni team in a requisition encounter. The Alumni, headed by the outstanding Don Lee, will be more than a match for Boston College's Engineers.

Leading the Engineers will be captains Paul Grady, local Watertown High product, and M. J. "Tim" Chisholm of Wynnemore, Pa.

The schedule: Dec. 2, Tufts, Garden; Dec. 5, Harvard, Garden; Dec. 14, U. of Mass., at Springfield; Dec. 15, Northeastern U., Garden; Dec. 18, Boston University, Arena; Jan. 5, at Bowdoin; Jan. 6, at Colby; Jan. 16, Tufts, Arena; Feb. 8, American International College, at Springfield; Feb. 13, Middlebury, Arena; Feb. 19, Bowdoin, North Shore Sports Center; March 3, Boston College, Arena.

### Interclass Track

Oscar Hedlund's Technology Track team will hold its fall interclass meet tomorrow afternoon at Briggs Field. The meet, first of three interclass meets to be held during the season, appears a tossup with the Sophomores and Freshmen ranking as favorites. Last year the class of 1950 won all three meets, although two were by close margins.

## NOTICES

#### Newsmen

The W.M.I.T. News Department will hold a smoker for interested freshmen and sophomores in Litchfield Lounge, today at 5:00 p.m. Speakers and refreshments are included on the program.

#### Debaters

The Debating Society will hold a business meeting on Tuesday, November 21, at 5:00 p.m. in room 2-131. Plans for future debates, and general society policies will be discussed. Any student who is interested in debating or debate management and who has not yet joined the society can do so at this meeting. If it is not possible to attend the meeting, they may contact the General Manager of the Society, Irwin Manning '51, Baker House.

#### "Twelfth Night"

The Institute's Staff Players will present Shakespeare's "Twelfth Night" in Huntington Hall, 10-250, on the evenings of November 31, December 1 and 2, the weekend of Tech's-A-Poppin. On Saturday afternoon, there will be a matinee with special rates for high-school students and their teachers.

#### A.S.M.E. Movies

Two films, "The Fleet That Came to Stay" and "The Formica Story," will be shown by the A.S.M.E. on November 21 at 5:00 p.m. in room 2-190.

### Beat

(Continued from Page 5)

8:30 p.m. End of coda. New stuff: The next two Sunday recitals at the Gardner Museum are to be given by the pianist Claudette Sorel, on November 19th and Richard Farrell, on November 26th. There is no admission charge to these recitals, sojourns which are further enhanced by the art-laden surroundings of the museum itself. The recitals begin sharply at 2 p.m. and last about one hour.

Hemidemisemiquavers: Hans and Haydn Society is presenting Mendelssohn's "Elijah" Sunday evening in Symphony Hall. "The Gypsy Baron" of Johann Straub tonight and tomorrow night at Rindge Tech Auditorium, Cambridge.

Well, well, here it is almost the end of the column and no sign of those . . .

### Dorms

(Continued from Page 5)

wardrobes, and against the absence of a door between the rooms in the suites. This menaces the privacy of many of the brown-baggers. The Board is urged to correct this situation.

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**2 . . . Light up your present brand**  
Do exactly the same thing—DON'T INHALE. Notice that bite, that sting? Quite a difference from PHILIP MORRIS!

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### Beaver Soccer Team Finishes Season With 4-0 Loss To Harvard

On Wednesday at Briggs Field the soccer team ended their season with a 4-0 loss to the Crimson team from upriver. By coincidence last year's and this year's Beaver squads compiled a season's record of two wins, six losses and a tie with the tie of both year's being against the University of Connecticut soccermen.

After the showings of the team in the last few games it was doubtful that they would have a chance against a powerful Harvard club. The Engineers played with much more drive than they have shown in their last three games and they were plagued by near misses all afternoon as more than once the ball rebounded off the goal posts and away from the goal.

#### Harvard Scores

In the first frame the two teams played nearly equally with Harvard getting the better luck as they scored at about ten minutes of the first. In the second quarter, The Crimson made good a penalty kick to give them a 2-0 half time advantage. In the third frame both teams were held scoreless but in the fourth the Tech squad fell apart and allowed two goals to be scored. At the end of the fourth frame there were a few heated arguments leading in the eviction of three Tech men and one Harvard man from the game. In the first of these arguments one of the Harvard men involved with Tech's Belo and he were sent from the game. The following was the starting lineup for the final game:

Goalkeeper: rf. Bruer; lf. Barcinski; rh. Mitt; ch. Belo; lb. Saban; or. Austin; center: ct. Rahmatallah; il. Saragza; dm: subs. Villareal; Medal; Moran; dm: Gutwerc.

### Fencers Seem Strong As Rally Opens Season, Squads Lack Reserves

The 1950-1951 fencing season was formally launched last Monday with a varsity rally held in the fencing room behind Walker Gym. The meeting was called by Captain Tony Mirti to take inventory of the team's strength and to map plans for the coming season. Manager Phil Gibber also took the opportunity to read the list of teams that have accepted meets with the Beaver fencers.

The outlook for the team is fairly good since there are seven varsity men returning from last year's squad. However, a berth remains to be filled on both the epee and saber squads. Also there is a general lack of reserve strength on the team. Therefore the success of the coming season depends on no small extent whether or not two new men can be developed in time by Coach Vitale.

#### Foil Squad Strong

Only the foil squad has any measure of depth. Vieing for positions in this department are veterans Tony Mirti, Dick Moroney and Tony de Alteriis, and an up-and-coming Sophomore, Bob Dion.

Returning to the saber team are John Lowry and Peter Ney, both dependable point-getters on last season's squad, while Phil Gibber is being converted over from foil to saber to fill the third position of the team.

The epee squad will again have the services of Charlie Kurz and Al Zesiger, who can be counted on to come through with needed wins in this department. Sandy Sussman, a newcomer to the squad, is being groomed by Coach Vitale to step into the open berth.

## Beaver Harriers Fifth Brown Captures N. E. Cross Country Crown

By ROB BURDETT

In one of the best races in the history of the New England I. C. 3A Meet, Bruno Giordano of the University of Connecticut led a close packed field to the finish line to win the 38th New England Intercollegiate cross country championship. Unlike Giordano, however, the Uconn team proved a big disappointment. Favored to place in the first three, the Nutmegs finished seventh while an underdog Brown University squad captured the team title.

While the winning time of 21:27 was slow in comparison with those turned in by Bob Black of Rhode Island State, title winner for the last four years, the field as a whole was rated one of the fastest in many years. 114 men, representing 20 schools started, with sixteen schools entering and finishing five men.

With Harry Wood and Walt Molineux running fourth and seventh, respectively, the Bruins placed four of their five scorers in the top twenty and came off with low score, 98 points. Vermont, Maine, Springfield, Northeastern, and M.I.T. completed the first five. Rhode Island State, which had captured the team title for five straight years, finished tenth.

#### Techmen Present Strong Showing

The Technology Harriers added more luster to their record for the year with an outstanding performance. Although undefeated in regular season competition, the Techmen were figured to do no better than seventh. Captain Bill Nicholson led the Beaver runners home finishing fifth, a hundred yards behind Giordano. Nicholson came up with a strong drive in the stretch to edge Maine's highly rated Dick Dow and Molineux, who ran third most of the way but faded in the stretch.

Carl Liswith, only Senior on Oscar Hedlund's squad, turned in a surprising performance, coming away with fourteenth spot. Jerry Tiemann, 27, and Chuck Vickers, 30, both contributed a lot toward boosting the Beavers into fifth.

#### Kelley Dominates Frosh Race

In the Freshman Championship race, the Tech runners finished seventh in a field of fifteen teams. Captain John Avery was the first Engineer home, finishing eighth. John Kelley, great Boston University prospect, ran away from the pack to win by a hundred yards in record breaking time, finishing in 15:44 for the 3 1/4 mile Freshman course. The B.U. Harriers gained a tie with Providence College for the team title when Friar ace Chris Lohner developed a stitch and was forced to drop out.

The Tech squad will close the official intercollegiate season Monday, running in the I. C. 4A meet in New York.

### FRESHMEN

All freshmen, who are interested in crew and have not as yet reported, have been urged to turn out by Coach Jim McMillan. More freshmen are needed to round out the squad and any latecomers will not be handicapped in any way. The squad is working out on machines at the boathouse and those interested should report there at 5 p.m. any afternoon.

### Letters

(Continued from Page 2)

Dear Sir: What is going on around here anyway? I and many others from the class of '54 were evicted from the plywood palace one month ago. Now I see that a freshman was the last one to vacate Building 22 this week. Is he an exceptional case, does he rate, or are my eyes deceiving me?

D. A. White, '54

### Baker

(Continued from Page 3)

All persons interested in serving as Team Captains are asked to contact the Division Captain in their living group. Those interested in helping the campaign in any other capacity, please contact Stanley I. Buchin, Baker House.

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cient to pull the station and the large section of the state it was serving out of synchronization, finally shutting down the station. Cambridge Electric Light had about 30% reserve capacity on the lines, but they were unable to take up the load before the whole sys-

(Continued on Page 3)

### Tucker To Lecture On Music Next Mon.

Contemporary American music will come under the scrutiny of the Institute's Prof. Gregory Tucker next Monday, November 27, in Room 2-190 at 5:00 p.m. A lecturer in music at Technology, Tucker will speak on "Sources of American Music."

Before coming to the Institute in 1947, he was a Professor of Music at Bennington College and at this time toured extensively as a concert pianist. Many of his appearances were in South America and he has recently played with the Boston Pops Orchestra.

Tucker has also composed several works, the most recent being a ballet which had its premiere at the American Festival of Dance in New London, Connecticut, this past summer and which will be produced by the New York City Center in March.

personnel, including those of the Division of Industrial Cooperation under the immediate supervision of the department faculty, totals 750. During the post-war peak, student enrollment in the Department of Electrical Engineering exceeded 1,200. Associated with Professor Hazen and Professor Brown is Professor Carlton E. Tucker, the department's Executive Officer.

### Dorm Open House Rules Postponed To Later Date

Nicholas Melissas '52, Chairman of Dormitory Judicial Committee announced the revised dormitory rules, with the exception of open house provisions, Sunday night. The committee has postponed action on the open house problem until a later date.

The new rules provide that no objects of any kind may be kept on the window ledges, that no missiles of any kind shall be thrown from the windows, and that any tampering with the telephones or misuse of the phone service will result in disciplinary action by the Dormitory Judicial Committee.

The firing of fire-arms, the setting off of fire crackers, the using of chemicals to create a nuisance, all are again taboed.

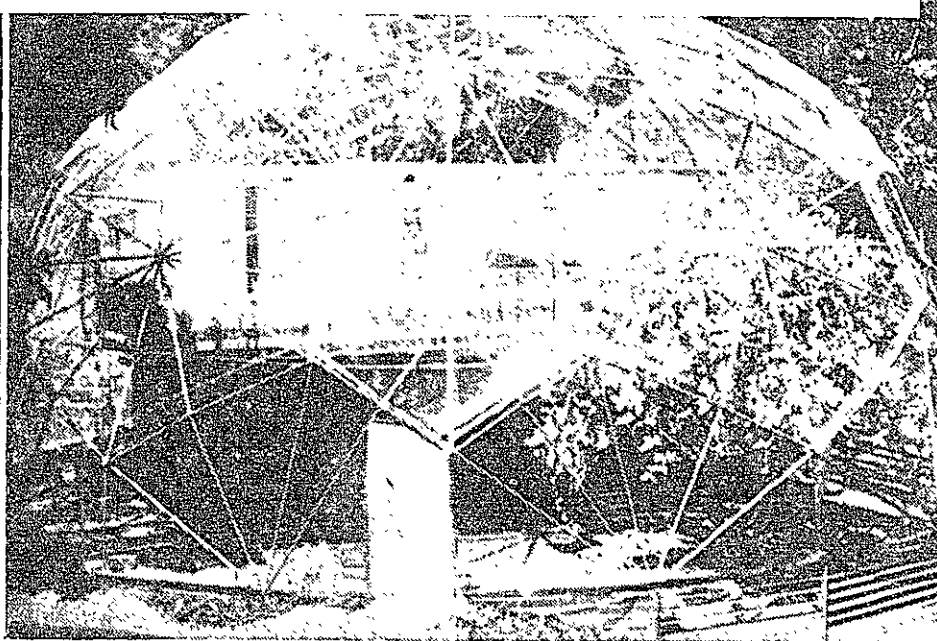


Photo by Cohen

This igloo-like structure is one of a number of aluminum space-enclosures built by R. Buckminster Fuller. Economy was the determining factor in its construction.

### By ALYCE STAFF and BARBARA BEYER

Two weeks ago, R. Buckminster Fuller returned to the Institute to conduct a ten week series of seminars for the Department of Architecture. This is the fourth time in two years that Mr. Fuller has been here to conduct courses in experimental structures and energetic geometry.

While at the Institute, Mr. Fuller will construct a model of a proposed hemisphere to be erected on

Memorial Drive. The structure will have a 70-foot diameter and will weigh only 3,800 pounds since it will be made of aluminum. This structure, made of a grating of crossed bars forming a curved surface, is called a "three way grid geodesic structure" and will serve as a space enclosure.

### Theory of Comprehensive Designing

Mr. Fuller's main interest in life

(Continued on Page 3)

## THE FRIDAY

# To Speak Pled World

mediate future, all is not lost. Hope and the love and the hope of men, who are to be found in all parties and through all nations; peace, and in spite of everything, and whatever may come, I believe."

This quotation exemplifies the philosophy of its author Pierre van Paassen who is speaking here today, on the subject "There Is Still Time." Van Paassen's speech is the second lecture in the Lecture Series Committee Subscription Series.

His talk will be held at 5:00 p.m. in Room 10-250, and there will be a question period following the talk. Tickets will be on sale at the door; 50 cents for general admission and seventy-five cents for reserved seats.

#### What Does the Future Hold?

In his lecture van Paassen will speak on his views of the future, and what he thinks America's role should be. What he sees emerging is a "new kind of internationalism, a unification of mankind in mankind's own interests, the world over."

From 1925 to 1930, as chief correspondent for the N. Y. Evening World, Van Paassen covered almost every important political event in the world occurring at the time. From 1932 to 1935, while foreign correspondent for the Toronto Daily Star, he spent three years in Russia studying the Soviet political and economic system.

#### Political Refuge

Van Paassen is proud of the fact that he has been expelled from nearly every European country because of his condemnation of fascism.

## Library Friends Run Prize Essay Contest Open To All Students

The Friends of the M.I.T. Library have organized a prize essay contest, open to all students at the Institute, in conjunction with an exhibition of fifty fine books, recently given to the Institute by the Peter Pauper Press of Mount Vernon, New York.

General theme of the contest is "the place of fine books in present day living." A specific title or subject may be selected from the fields of printing, book collecting, or the accumulation and use of a personal reading library.

First prize of \$15 and a second prize of \$10 both in money, or, at the option of the winners, the value in books selected from the catalogue of the Peter Pauper Press, will be awarded for the best papers received.

#### Deadline is December 15

Manuscripts will be accepted and read by the Department of English and History. Entries should be typed, double spaced, with the name and address of the author appearing on the title page, and may not be less than 1,000 or more than 2,500 words in length. All entries should be marked "Friends of the M.I.T. Library, Prize Essay Contest" and must be left at the English and History Department Headquarters, Building 14-N407 before 4:00 p.m., December 15, 1950. The winners will be announced before the Christmas recess.

The fifty Peter Pauper Books are on display in the wall exhibition case near the English and History

(Continued on Page 6)

### Low-Grade Coal Can Produce Good Steel Reports Dr. Killian

Dr. James R. Killian, Jr., president of the Institute, told a Birmingham, Alabama, audience last Friday night that diminishing supplies of first-grade coal no longer threaten to mean diminishing supplies of high-grade steel.

Reporting on current research and educational activities at the Institute, Dr. Killian said that recent research first sponsored by the Republic Steel Corporation and now also by the American Iron and Steel Institute in the Metallurgy Department, has established the fundamental chemistry of sulphur in steel furnaces. The work gives assurance that brittleness arising from sulphur in steel can be controlled in steelmaking processes.

#### New Metals Lab

This means, Dr. Killian said, that lower grades of coke, containing more sulphur, may now be used for making even the highest grades of steel.

The result of a \$1,600,000 gift from Alfred P. Sloan, Jr., Chairman of the Board of General Motors Corporation, a new Metals Processing Laboratory building is now under construction in Cambridge.

Citing the work of a student and faculty research group under the direction of Professor John Chipman, head of the metallurgy department and a graduate of the University of the South, Dr. Killian said that this research, "including what is believed to be the first equilibrium study of the distribution of sulphur in blast furnaces, has for the first time put the theory of steel desulphurization on a sound basis."

**Ice Box** (Continued from Page 1) feet deep. This space is cooled by five expansion engines driven by compressed helium.

Standing over 10 feet high, the cryostat has a refrigerated space capped during operation, by a steel lid containing a glass window through which the experiments may be observed. A vacuum insulates the entire machine from room temperatures.

**Dinghy** (Continued from Page 1) "helmsman" can take out a boat alone at any time. "Racing skipper" can enter any of the Association's races. "Bosun" is the top rank. The various ranks are reached by passing examinations first on the fundamentals, and later on the fine points of sailing.

The boats are, of course, the major equipment of the Association. Though getting on in age, the original fleet is still in use, however, a new group of dinghies is expected in the near future.

#### Boats Are 15 Years Old

Because the boats are fifteen years old, they are somewhat difficult to keep in repair. While there has not been a lack of available boats, there are always a few on which work is being done. Almost all the masts have been spliced, and many stainless steel stays have had to be replaced. When it is remembered that such fleets usually last ten years, and that the members of the Association do more actual sailing than is done in almost any other such college organization, the fact that the boats have lasted this long is even more remarkable.

# Be Happy - Go Lucky!

The campus queen is now my girl; My charm, sir, leaves her weak. She's dropped her other boyfriends for My Lucky Strike technique.

By John Scholding Temple University

I put a Lucky with my test To see if it would pay. My paper got a big flat F; The Lucky Strike an A.

By Cy Kees University of Oklahoma



Enjoy your cigarette! Enjoy truly fine tobacco that combines both perfect mildness and rich taste in one great cigarette - Lucky Strike!

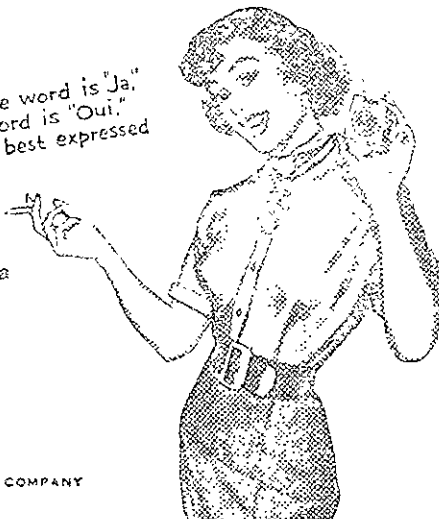
Perfect mildness? You bet. Scientific tests, confirmed by three independent consulting laboratories, prove that Lucky Strike is milder than any other principal brand. Rich taste? Yes, the full, rich taste of truly fine tobacco.

Only fine tobacco gives you both real mildness and rich taste. And Lucky Strike means fine tobacco. So enjoy the happy blending that combines perfect mildness with a rich, true tobacco taste. Be Happy—Go Lucky!

### LS./M.F.T.-Lucky Strike Means Fine Tobacco

In German class the word is "Ja." In French the word is "Oui." In smoking "Yes" is best expressed By LS./M.F.T.

By John G. Davis University of Virginia



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