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## Sophs Refuse Inst. Comm. Prom Budget

### Say \$1,500 too Small; Walker Memorial Acts On Poster Publicity

Prospects for a Sophomore Prom this spring died yesterday at the regular weekly meeting of Institute Committee. Frank Shannahan, Sophomore class president, stated that no attempt would be made to hold any dance, following the Committee's approval of a \$1,500 budget for the Prom.

Shannahan earlier stated that his Sophomore committee wanted to hold a two-night affair with a budget of \$2,600 and a name band. He would be willing to cut down these plans, "reluctantly," to include only the Friday formal if the Committee insisted. However, he said that the Sophomores were unwilling to hold a small dance under the limited budget of \$1,500.

### Subcommittee Allots \$1,500

Opposition to the Sophomore plans came from the subcommittee headed by Carleton H. Boll, '43, which had previously studied the matter. Boll claimed that the Sophomore committee had presented their plans too late to be accepted, as it was felt that the Prom would interfere with ticket sales for the Tech Show, which will be presented one week after the proposed Prom weekend. Also, several members expressed the opinion that the large dance with a name band was less desirable than a less expensive dance held at Walker. Their recommendation called for a maximum budget of \$1,500 with provision for 350 couples at a one-night affair.

The full membership of Institute Committee upheld these recommendations by a vote of 16 to 8, following which Shannahan made his statement ruling out all possibility of holding the dance.

### Walker Comm. Presents Report

Other business handled at yesterday's meeting included the presentation of report by the Walker Memorial Committee on the problem of activity publicity. It was announced that the Morss Hall public address system would be put into use daily during the lunch hours for announcements by undergraduate activities. Also presented was a program for regulating the use of bulletin boards in the Institute buildings. Under the plan, all of the boards will be divided into three areas, and every recognized activity will have space allotted in each area. Several members objected that this plan did not make adequate provision for posters announcing special events, and this part of the program will be considered further.

## Model Railroaders Offer \$10 Reward For Stolen Trains

Two model railroad engines and about 10 cars belonging to members of the Tech Model Railroad Club were stolen from the old club-room in Crafts basement. The theft occurred some time during the Christmas vacation. The lock on the club room door was broken, eliminating the possibility that the door had carelessly been left open. The Dorm Committee has been notified, and it is hoped that they will investigate this theft along with the others from several dormitory rooms.

A reward of \$10.00 has been offered by the Club for information

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## Ski Experts Regard Macomber As Greatest Olympic Threat

### Tech Senior Merits Praise of Europeans For Superior Style

Lauded by European experts for his effortless style, George Macomber, a Technology senior and member of the United States Olympic ski team, was rated the biggest threat to European skiers in the forthcoming winter Olympic Games at St. Moritz, Switzerland.

Now on leave of absence from the Institute, Macomber is training for the Olympics at Davos, Switzerland, with the 30 other members of the United States team. Ski experts eyeing the progress of the American group have noted a marked improvement in the U. S. team since its arrival in Europe a month ago, and according to reports from Switzerland have singled out Tech's George Macomber as the greatest potential rival of Europe's ace skiers. It was Macomber's "calm, effortless style" that particularly impressed the Europeans.

### Lives in Newton

Macomber, whose home is in West Newton, embarked for Europe on December 8 with Olympic team members, coaches and managers. The American team will match its skill against a field of 15 nations in the winter Olympics, January 30 to February 8, on the slopes at St. Moritz, Switzerland.

A downhill and slalom specialist, Macomber finished third in the Olympic trials at Sun Valley last year. During the past two winters he raced extensively on the Western slopes, and established an enviable record.

### Dispute Unsettled

Although the American Olympic team is undergoing intensive preparation for the winter games, a vague doubt still exists as to whether the U. S. group will be allowed to compete in the Olympics. A dispute over recognition of the American ice hockey team, now raging between two rival sponsors of a U. S. squad, the A.A.U. and A.H.A., has not been settled by the American factions nor by the Swiss organization committee responsible for the Olympics. Unless the hockey situation is satisfactorily settled the Swiss authorities may disqualify all American teams from Olympic competition this winter.

## SENIOR RING

Orders for 1949 Class Rings will be taken on Wednesday, January 14, and Thursday, January 15, in the lobby of Building 10 from 11:00 a.m. to 3 p.m. Orders for classes previous to 1949 may also be placed at this time.

## Samuelson Is Given Award

### Receives the "John Bates Clark" Medal For Economics Work

Professor Paul A. Samuelson, who was the recipient December 28, in Chicago, of the American Economic Association's John Bates Clark Medal, awarded for the first time to the "younger economist who has made the most distinguished contribution to the main body of economic thought and knowledge," is professor of economics in the department of economics and social science at the Massachusetts Institute of Technology.

Dr. Samuelson was born in Gary, Indiana, thirty-two years ago and was granted the degree of bachelor of arts from the University of Chicago in 1935. He then entered Harvard University, where he was awarded the degree of master of arts in 1936. He was awarded the degree of doctor of philosophy in 1941, a year after his appointment at the age of 25 as an assistant professor in the Department of Economics and Social Science at Technology.

Dr. Samuelson was promoted to the rank of associate professor in 1944, when he was granted leave-of-absence to serve as a staff member of the Radiation Laboratory at Technology. He also served from August, 1941, to July, 1943, as economic consultant to the National Resources Planning Board where he was in charge of war-time planning for continuing full employment. During 1945 he also served as a part-time economic consultant to the War Production Board in connection with its economic and general planning program.

Returning to the Massachusetts Institute of Technology July 1945, Professor Samuelson continued his teaching and research program and last July he was promoted to the rank of full professor in his department.

He is a member of the American Academy of Arts and Sciences, the American Economic Association, the Econometric Society, Phi Beta Kappa, and a Fellow of the Society Science Research Council. Professor Samuelson has contributed prolifically to economic literature and is the author of the recent book, "Foundations of Modern Economic Analysis." His new book, "Economics: an Introductory Analysis," will be published next spring.

### OFFICIAL NOTICE

#### REGISTRATION MATERIAL—SPRING TERM 1948

Registration material for the Spring Term was given out this week. Students who have not obtained their material should do so at once as follows:

All first-year students who have not obtained their material in 5.01 Laboratory Section call at Room 4-258.

All other students call at the Information Office, Room 7-111.

Registration material for the Spring Term must be filled in and returned to Room 7-142 before 1 p.m., Friday, January 16.

#### REPORTS FOR FEBRUARY 1948

Reports for the Fall Term 1947-48 will be mailed to the Term Addresses on Thursday, February 5. Students who wish to have their reports sent elsewhere must call at the Records Office not later than Monday, January 19. Duplicate reports for students who are under age will be sent to the parents.

No reports are sent to students who are candidates for a degree in February 1948. Any senior who desires a photostat copy of his complete record at the Institute should leave an order at the Registrar's Office, Room 7-142. There is a charge of \$1.00 for the first photostat and \$.25 for each additional copy ordered at the same time. These will be available about March 1.

#### ATTENTION OF CANDIDATES FOR GRADUATION IN FEBRUARY 1948

Notices of Recommendation for the February 1948 candidates for degrees will be mailed to the Term Addresses on Tuesday, February 3.

Please be sure that your Term Address as given in the Information Office is correct.

## Full Curriculum Will Be Offered To Second Term Seniors This Summer

### Hilton To Head 'The Tech' Staff

#### Promotions Announced At Annual Staff Dinner

Promotions on the staff of *The Tech* for the forthcoming volume were announced by retiring General Manager Peter H. Spitz at the annual banquet of *The Tech*, held Wednesday evening at the Fox and Hounds Club.

Thomas L. Hilton, '49, was appointed to head the staff as General Manager, beginning with this issue. Other members of the Managing Board include David R. Israel, '49, and George A. Freund, '49, Editors; Malcolm L. Reed, '49, and Harrison E. Rowe, '49, Managing Editors; and James I. Maslon, '49, Business Manager.

The Associate Board now includes the following men: Donald W. Ramsey, '49, News Editor; David Reiner, '50, Associate News Editor; David A. Grossman, '50, and Sander Rubin, '50, Co-Features Editors; Guy C. Bell, '50, Sports Editor; Karl Goldberg, '49, Associate Sports Editor; Norman B. Champ, '50, Assignments Editor; David W. Marcus, '50, Associate Assignments Editor; Harrison C. White, '50, Personnel Manager; Jon L. Ganger, '50, Photography Editor.

Those appointed to positions in the Business Department are: Edward J. Wolz, Jr., Circulation Manager; David Benenson, '50, Sales Manager; Jerome K. Lewis, '50, Treasurer; Stanley L. Chaikind, '50, and Irving Weinzweig, '50, Co-Advertising Managers.

#### Killian Discusses Institute Problems

Dr. James R. Killian, Vice-President of the Institute, was the guest speaker at the banquet. Dr. Killian discussed the serious post-war problems involving communications at the Institute, and the part *The Tech* plays in bringing essential information before the entire Technology family.

"Demand for engineering education is on a permanent high plateau," Dr. Killian stated in discussing the major problem of stabilizing the enrollment. The permanent optimum enrollment level is now being studied very carefully. This figure will probably be some-

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## Budget Comm. Positions Open

A competition will be held among juniors for three positions on the Budget Committee. The competition, which is open only to first term juniors, will be held at 5 p.m. in the Faculty Lounge of Walker on Friday, January 16. Selection will be based on personal aptitudes and on activity records.

The Budget Committee is one of the most important subcommittees of the Institute Committee, and is responsible for all financial records of the Institute Committee as well as all minor committees. All class A and Class B clubs must be checked monthly by the budget group, which acts as treasurer of all undergraduate activities. The chairman of the Budget Committee, who is also treasurer of Institute Committee, at the present time is Carl Boll.

## Many Subjects Open To Students In All Courses

Registrar Joseph MacKinnon announced this week that a full curriculum is to be offered next summer only to those students who will be enrolled in 4-2 for the summer term. Also announced was that a complete 4-2 program will not be offered during the fall term of 1948.

In view of the latter announcement, some students now in the 3-2 term requested that a full term summer school be open for them so that they might complete their work by Fall of this year, instead of being delayed until June 1949.

Although no other full terms will be offered, some courses will be given in seven-week terms. There will be two periods, the first to run from June 14 to July 30, while the second half is scheduled for the period from August 2 until September 17. In general, first-term courses will be given during the first period and second-term subjects are scheduled for the second period. This arrangement will not affect students in 4-2.

Mr. MacKinnon stated that there will be no Saturday classes nor final examinations for either period. Basic subject in all courses, as well as freshman subjects, are to be offered. As usual, Course V students will be required to take Qualitative Analysis 5.10 during the first half of summer school.

In addition to the regular surveying camp for students in Civil Engineering and Building Construction, a two-month camp is to be offered to juniors in the Geology Course. The former camp is to be held in Maine and the latter in Nova Scotia.

## Final Dancing Class To Require Dates

### Best Dancers to Win Arthur Murray Lessons

Music will replace the noise of bouncing basketballs in Walker Gymnasium this Saturday night when the sixth and final dancing class will be held at 8:00. The finale to the program of dances, which were sponsored by the Dormitory Committee, will be a date affair.

During previous sessions girls had been invited from neighboring colleges. The class will be held this Saturday instead of the usual Friday night because of a basketball game.

The Saturday night program, under the direction of Arthur Murray instructors J. Alexander and Miss Betty Sharp, will differ slightly from the preceding classes. A general review of the steps taught at previous times will be highlighted later in the evening by a fox trot or waltz dancing contest. Three individual instruction certificates will be awarded as prizes. These certificates, valued at about \$18.00 each, entitle the couple to free dancing instruction at the Arthur Murray studios.

Details for the sixth class, as throughout the entire program, are being handled by Chairmen Arthur Teager and Howard Reuter. Social Chairman James Baker and all those who helped him escort girls have their job lightened after five weeks, and will be able to work along with Nat Rossin, Frank Heager, Robert Youden, Frank Viera and Larry Lintz.

# The Tech

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FRIDAY, JANUARY 9, 1948

No. 1

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## OFFICES OF THE TECH

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Assistant Night Editor: Dale Cooper, '51

## A STATEMENT OF POLICY

As of this issue, **The Tech** has a new managing board. We of this new board feel that it is our first duty to inform our readers of those principles which will guide our editorial policy.

We have no crystal balls to inform us of what specific problems we may encounter during the coming year, and we cannot now say how we shall react to any single situation. But we do feel that there are certain basic tenets to which we shall endeavor to cling.

First, editorializing will be confined solely to the editorial columns. News stories will present the facts and the facts only, in as full a coverage as is technically possible. That is, in reporting any controversial issue the opinions of both sides will be included equally, while all analyses and interpretations will be reserved exclusively for the editorial space.

As for the allotment of this editorial space, national and international issues will be avoided. We do not feel that such matters are outside the realm of Technology students—far from it—but it is our belief that few students—if any—are qualified to comment significantly upon these issues.

In our editorials we will urge students to develop active interests in national and international affairs, but we shall make no attempt to influence their judgments on these matters.

We do, however, leave the "Letters to the Editor" column open to anyone who wishes to express his opinion on matters of interest to Technology students. Complete letters shall be printed in so far as space permits, but we shall not print anything to which the author refuses to sign his name.

As for local issues, we will appraise situations, not with the intention of dragging old or new skeletons from the closet, but with the intention of offering an acceptable solution to the question at hand.

Infallibility may not be ours, but after a problem has been fully discussed with staff members and our editorial advisers, we feel that we have the right to express our opinions frankly and without apology.

Voltaire said it: "I do not agree with a word that you say, but I will defend to the death your right to say it."

## THOSE WHO BLASPHEME

Perhaps it is about time for those who blaspheme Walker Dining Service to hold their tongues—either that or take a short tour about Pritchett Lounge. In fact, we believe that among the evening population at the Lounge we have discerned some of these bitter little men.

Th facts merit attention. Messrs. Bridges and Carlisle have done much to provide Technology with a lounge bar that far surpasses anything in the vicinity. From a dull dark hall there has been created an evening snack spot which should be the pride and joy of every student.

Recently installed with new tables and chairs, the lounge provides the ideal spot to take a date after the movies or a show. Of particular interest is the small dance floor with accompanying juke box, a feature not available at any other of the Charles River ice cream and hot dog emporiums.

The dance floor, the rapid service, the hostess, and the modernistic stainless-steel atmosphere are all provided at ridiculously low prices. In the majority of cases the prices of the food at Pritchett Lounge are about one-half those charged at similar after-dark dining places.

Both the inception of the idea and the present operation of Pritchett Lounge deserve praise. Such projects are of considerable value to the student body and deserve the support which they are receiving, blasphemers included.

## Letters to the Editor

The Editor of The Tech  
 Walker Memorial

Dear Sir:

The Christmas holidays afforded me an excellent opportunity to read and digest the President's Report Issue of the Institute Bulletin, published in October, 1947, and just recently available in the libraries of the Institute. In my estimation it is "must" reading for all persons connected with and interested in the progress of the school.

Without detracting from the outstanding accomplishments of the Institute and its personnel, I should like to set forth a few of my personal impressions of the whole Report Issue in the hope that they may stimulate an enlightening on this volume.

In its entirety the Report Issue left me with a feeling that Technology expended nearly all of its annual effort (and actually one-half of its total expenditures) on research contracts, meanwhile devoting very little time to the improvement of its undergraduate academic program. The tone of each departmental report built up this feeling as I read along. A great deal of space in each report was devoted to the particular department's activities in research projects, including the expansion and betterment of academic work at the graduate level, as compared to the surprisingly small space devoted to a discussion of the increasingly urgent undergraduate teaching crisis. In all of the reports this crisis was acknowledged, however, only one department has done anything positive towards a solution of the problem. The Electrical Engineering department secured Dean Donald D. Durrell of Boston University to lecture to its staff on the basic essentials of good teaching, and it plans further conferences this year on teaching methods.

During my two and one-half years as an undergraduate I have often felt that the Institute was very little concerned over providing me with the kind of an education that its past reputation promised. Too often have I taken subjects under instructors who have the impression that they are only fulfilling an undesirable requirement of their job when they teach a course to undergraduates and that they desire only to return to their interrupted research work. Perhaps they may not wish to feel this way but their research commitments are so extensive that they simply don't have the time to devote to teaching properly. And now the Report Issue seems to reinforce these impressions.

To my mind Technology has reached the point where it must decide upon which of two distinct paths it is to travel in the future. The first path, well worn by its traditions, leads to the maintenance of a fine undergraduate institution, where the accent is on excellence of instruction; the second path, bright and enticing, leads to the establishment of a fine graduate school and research center.

The former path would eliminate all major research and allow instructors, who would have gained extensive experience in their particular fields elsewhere, to devote all of their time to the highly skilled job of teaching the fundamentals of engineering and science. The latter path would eliminate all undergraduate activities altogether and provide this world with an institution of advanced study and a research center both without parallel. I cast my vote for the latter path.

In closing I wish to reiterate that every member of Technology's vast "family" should read this enlightening, interesting, and readable report. Perhaps your impressions will be diametrically opposed to mine.

Sincerely yours,  
 DONALD MARSHALL, '48

## In The Spotlight



PETER H. SPITZ

With the ringing in of the new year, the position of General Manager of **The Tech** again changes hands. In this issue we turn our spotlight on our retiring General Manager, Peter Spitz.

At the stroke of midnight, May 31, 1926, in Vienna, Austria, Pete was issued into the world on the morning edition of the Vienna Times. For lack of imagination, his parents called him Peter, and he bears that name today.

In Vienna he went to a progressive school where there were neither instructors nor books. This proved too much for Pete, and in 1938 he left for Paris. Here he lived near the Folies Bergere, but Pete was only at the tender age of 12, and wasn't able to fully enjoy French "art." Before coming to France, Pete traveled throughout Europe, visiting Italy, Hungary and several other countries.

His departure for the United States was heralded by a gun fight which took place between his ship, the last to leave France before the war, and several others. After his arrival in this country, Pete and his family lived for a short time in Philadelphia, where he attended the Germantown Friends School. In 1943, he and his family left for New Rochelle, where he has been living ever since.

In this same year Pete came to Tech. His career in journalism began when he decided to reform the Yellow Press of Captain Patterson and he sought to accomplish this task by becoming a member of **The Tech** staff as a reporter. During his freshman year he also became a member of the Pi Lambda Phi fraternity. His high school interest in chemistry led him to choose Course X for his studies. He became a member of the Junior Board during his sophomore year, and also participated in the Sophomore Field Day swimming team. Uncle Sam had other plans for Pete that year and he left for basic training in

Florida. While in the army he became a member of the Signal Corp. During his training he had plenty of opportunity to explore the French Quarter of New Orleans.

After his return to the Institute Pete resumed his duties on **The Tech** staff and during the second term he was appointed to the Managing Board. During his four years here, he has participated in many activities, including the Beaver Ke Society, Institute Committee, Gric Iron Society, Tau Beta Pi, the Liberal Arts Society, Senior Week Committee, and the A. I. Ch. E. of which he was president.

Pete's time as General Manager was highlighted by two developments. He succeeded in keeping the financial accounts of **The Tech** above water despite a 58% printing rate increase, and also decided to publish two issues a week. In his frequent editorials he often deplored the fact that Techmen don't appreciate the finer things in life. He set an example for many members of the student body by taking a course in modern painting, sponsored by Harvard University, proving that there always is time for other things besides homework!

After graduation Pete plans to study for his master's degree here at the Institute.

## AWAY FROM THE GRIND

By DONALD W. RAMSEY

Hahvahd, Paahk Street, and the Beacon hill matrons notwithstanding, Boston rates only third in the list of U. S. cities with the best diction, according to a recent poll conducted by the Linguaphone Institute of America.

Although loyal Bostonians from the Watch and Ward Society to Scollay Square have risen in protest against the "superiority" granted to Washington and Nashville, we can't help but feel that the L.I.A. has been extremely kind to Beantown.

The **Boston University News** quotes its president, Daniel L. Marsh, as stating: "Boston pronunciation is as nearly accurate as it is possible for English to be spoken. You will find the best English in the country here in Boston."

Senator Henry Cabot Lodge, who should be in a position to know, rates Boston speech far above that of the national capital. But he could be prejudiced.

The gem comes from the Rev. John Louis Bonn, S.J., professor of English at Boston College, who is quoted by the B.U. News as follows: "Boston is the only city in the United States where vowels are kept. At least Boston makes a distinction instead of slurring over."

All we can say is, "That ain't the way I heard it."

The ways of engineers often leave considerable room for explanation,

but the following excerpts from Bob Schwab's column in the **Oredigger** (Colorado School of Mines) should speak for themselves:

"The more I go to school, the more I wonder about it. All last spring they sweated blood on the new Petroleum Refining Lab, and when it was finally completed with much hullabaloo, it's up to the students to discover that they forgot to put drains on the sinks in the lab. Little things like putting the gas in the blue pipe and the compressed air in the red pipe can be overlooked, but no drains on the sinks sort of louses up things.

"Then of course there's the old story about the great Geology School in Golden (Colo.) that built their administration building and their new Geology building right in the middle of a fault plane. They have to tighten up the turnbuckles in Guggenheim every six months to keep the building from literally going to pieces. The Geology building on the other hand was very scientifically designed—they don't have turnbuckles over there, the walls just crack."

It probably would not be appropriate to say anything at this time about the designers who placed our machine tool lab on the third floor of Building No. 3.

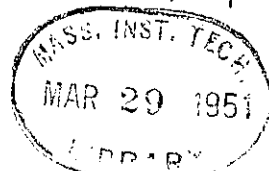
We hope the **New Yorker** won't mind our borrowing for the moment the title of their "Items Printed in their Entirety" department.

Obviously of startling importance to the engineering world is this report from a recent issue of the **Oredigger**:

"A method for igniting airplane engines without spark plugs has been invented."

The **Massachusetts Collegian** contributes the following fact to our growing store of information:

"In Argentina the years are 12 months long."



**Rep. Kennedy Interviews Applicants For Academies**

Representative John F. Kennedy of the Eleventh Congressional District, which includes Cambridge and parts of Boston, has announced that candidates for entrance to West Point or Annapolis may apply

at his office in 1702 Federal Building, Boston, between January 6 and January 10.

To be eligible for appointment to Annapolis, candidates must be between the ages of 17 and 21 on April 1, and for West Point, between the ages of 17 and 22 on the date of entrance to the Academy. However, if a man has served honorably not less than one year, he may enter West Point between the ages of 17 and 24, and Annapolis between the ages of 17 and 23. In addition, no person may be eligible who has been, or is, married.

This information is of pertinent interest only to students actually living in the 11th Congressional District.

**Station WBMS Is Here To Stay According To "Key Hole" Poll**

By SANDER RUBIN

According to an informal poll we conducted by listening at keyholes in the dormitories, Technology's favorite daytime radio station is WBMS. Last year we went down to their studios at 35 Court Street, just off Scollay Square.

We walked up to the third floor on a flight of stairs resembling a dingy version of J. Arthur Rank's "Stairway to Heaven" and were greeted by as cheerful a sight as we hope to see. Instead of the cold, modernistic plastic and stainless steel of the usual radio station, WBMS's offices are comfortably informal, and somewhat reminiscent of our own WMIT.

Our informant was in the program department. He explained that the makers of Temple radios, an old, reliable company, we were assured, had wanted to set up a radio station as part of their advertising program. They chose Boston because at the time there were only eight stations covering this large territory, and a classical music program because there was no such station in the vicinity. The station operates at 1090 kilocycles and 1000 watts with a transmitter at Medford. The station began operation twelve and a half months ago and now anticipates moving to larger quarters and establishing an FM affiliate. Temple radio is in the business to make money so the station accepts advertising from such competitors as Magnavox and Capehart. This is evidently a wise policy for the station now shows

an operating profit.

The program department works with a library of about 6,000 records and is acquiring new ones as fast as they are issued. Their favorite company is Columbia which provides an extra flip record in the automatic series. Programs are planned a month and a half ahead and published in a monthly bulletin issued by the station. The program department finds its job easier in the summer when the longer broadcasting day makes the make-up more flexible.

With their present frequency allocation the station has to leave the air after sunset to avoid interference with WBAL in Baltimore. They hope to get a change of frequency permitting a full schedule, but until then their days will be short in winter and long in summer. During the summer they take on an extra engineer and announcer because of the longer day.

The station has about twenty people on the payroll, many of them young. Most of them got their experience on other stations including Harvard's carrier current WHCN. When we visited WBMS the announcer on duty was a Harvard junior who had worked on the station over the summer and was filling in for that week.

Like our WMIT, WBMS has only one studio which is well sound proofed. However, since there is no airconditioning system in the building, during the summer the windows are opened to let in fresh air and street noises. Unlike our station, the announcer, and not the engineer sets up the recordings. The engineer just sits in the control room monitoring the output and smoking cigarettes. They don't have WMIT's elaborate system of warning lights either. The announcer merely says, "Shush," and throws the switch putting the microphones on the air. Sometimes this can be embarrassing.

**Having Troubles With Registration? So Are We . . .**

It has been a standing joke around the Institute for a number of years that most of the knowledge obtained in the first term was necessary in filling out the registration material for the second. The Tech wishes to say that this is not true . . . in fact, only about half true.

In any case, feeling that the average student needs a little help in this task, we publish the following set of directions:

Remove material from envelope, preferably over a closed container such as a bushel basket, being careful not to lose any of the little cards through the cracks. Have a typewriter, pen, ink, pencils, erasers and a vial of morphine handy.

In the first place, you should have some big cards, some little cards and some papers. Don't pay any attention to the papers; they're for veterans . . . mostly, anyway. Unless you're a veteran. If you are a veteran, we guess you had better fill them out.

Now take the big cards, all of them. Count them, making sure you have at least enough. There should be several colors, in fact the more the better. Next, unless you have done so already, you had better pick a course. There are about twenty of them, and it doesn't matter much which one you take; the only important thing is that you use Roman numerals when you put it down. About the only other thing you have to be careful of is to use your right name.

Well, about the little cards; you had better take them one at a time. It seems you get fined five dollars unless you do something or other, so you had better hurry up. Now, here's one from the Bursar . . . what's this one . . . oops . . . hmm, two of these. . . After filling them out, don't forget to hand them in.

**Tech Promotions**

(Continued from Page 1)

what lower than the present record number at the Institute.

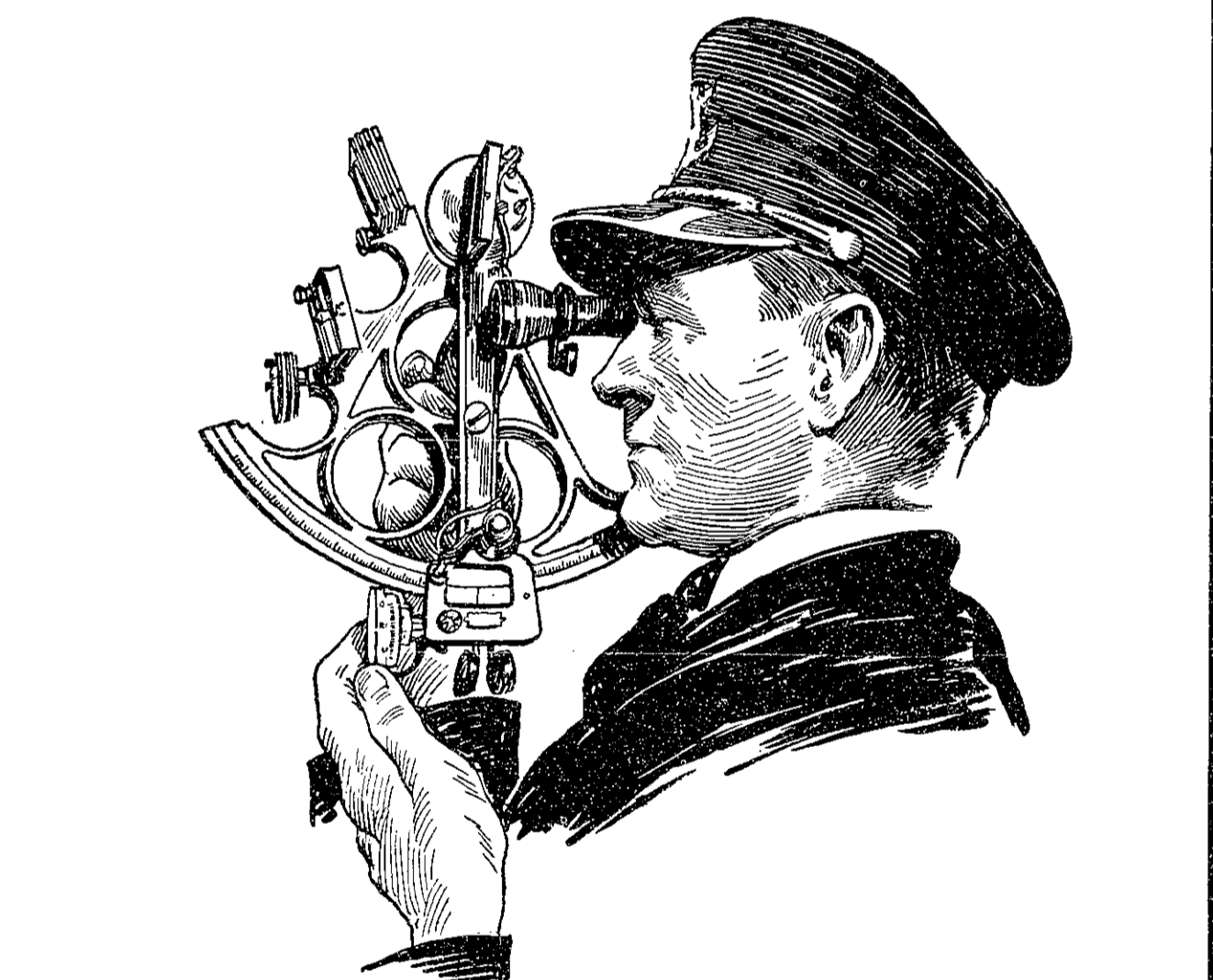
Among the other guests of honor at the banquet were Dr. Everett M. Baker, Dean of Students; Thomas P. Pitre, Dean of Freshman; Mr. John Rowlands, Director of the Institute News Service; and Mr. Frank Wholley, representative of the Rapid Service Press, printers of The Tech. Several former General Managers of The Tech also attended.

The retiring Managing Board, as well as several other retiring staff members, were elected to the Editorial Board. These include Peter H. Spitz, '48; Louis F. Kreek, Jr., '48; Arnold M. Singer, '48; Robert D. Fier, '49; Daniel J. Fink, '48; Frank W. Heilenday, Jr., '48; and Theodore E. Thal, '49.

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IN the telephone business, much of the knowledge of "where we are" and guidance as to "where we are headed" comes from the analysis of statistics.

Telephone statisticians and engineers are constantly studying trends and figures. They assemble the facts, analyze them, correlate them, discover their significance, draw guidance from them.

The work of these men is vital to our never-ending task of improving telephone service. In such work many college-trained men have found satisfying and rewarding careers.

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Dentyne Gum — Made Only By Adams

### Education Survey Being Conducted; Changes Foreseen

Since January, 1947, when it was formed, the Education Survey Committee has been investigating the aims and objectives of the Institute, as well as the system of scheduling classes as regards to lectures, recitations and research.

The real place of humanities in this school will be evaluated; also the relative emphasis which should be placed upon graduate research versus recitation, upon basic science versus professional subjects. The Committee distributed questionnaires in May to the members of the staff requesting suggestions which would contribute to more effective teaching and research at the Institute. These suggestions were evaluated by the Committee and passed on to the Administration.

The Administration plans to consolidate student housing and recreational facilities west of Massachusetts Avenue. More permanent housing units for the staff will be erected as soon as building conditions permit.

New color combinations for many of the classrooms are being formulated, these colors varying with the exposure. This promises to be a

novel improvement though it is quite in the spirit of the activities at M.I.T. Committees are at work testing new designs for fluorescent lights and improving the acoustics in classrooms and lecture halls. The results of these research activities will prove their worth as soon as they are put into effect throughout the school.

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(8.03 QUIZ REVIEWS: Today, 5 to 7 p.m., and Sunday, 10 to 12 Noon)

# REVIEW CLASSES FOR FINAL EXAMS

Illustrated by problems from past examinations, these classes will provide you with a most efficient way of reviewing, will prove a help toward a higher cumulative rating and will save you considerable time. Each subject (five 2-hour meetings): \$10.

8.01  
(5 to 7 p.m.)  
\*\*Sat. Jan. 17\*\*  
\*Sun. Jan. 18\*  
Mon. Jan. 19  
Thu. Jan. 22  
\*Sun. Jan. 25\*

5.01  
(5 to 7 p.m.)  
Sat. Jan. 17  
Sun. Jan. 18  
Tue. Jan. 20  
Wed. Jan. 21  
Fri. Jan. 23

M-11  
(5 to 7 p.m.)  
Fri. Jan. 16  
\*\*Sun. Jan. 18\*\*  
\*\*Sat. Jan. 24\*\*  
\*\*Sun. Jan. 25\*\*  
Mon. Jan. 26

8.03  
(5 to 7 p.m.)  
Fri. Jan. 16  
Tue. Jan. 20  
Wed. Jan. 21  
Fri. Jan. 23  
Mon. Jan. 26

M-21  
(5 to 7 p.m.)  
Thu. Jan. 15  
\*Sun. Jan. 18\*  
Mon. Jan. 19  
Sat. Jan. 24  
\*Sun. Jan. 25\*

2.04  
(8 to 10 p.m.)  
Wed. Jan. 14  
Fri. Jan. 16  
Mon. Jan. 19  
Wed. Jan. 21  
Fri. Jan. 23

\*10 to 12 Noon instead of 5 to 7 p.m.  
\*\* 2 to 4 p.m. instead of 5 to 7 p.m.

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### Rubber accelerators lead the way to new agricultural fungicides

Vulcanization accelerators for rubber and agricultural fungicides would seem to have little in common. But the wide variety of interests of men in the Du Pont organization sometimes result in outstanding developments from such apparently unrelated products.

A rubber chemist suggested to a plant pathologist that derivatives of dithiocarbamic acid,  $\text{NH}_2\text{-C(S)SH}$ , parent substance of a well-known group of rubber accelerators, be tested as insecticides. His suggestion was based on the possibility that sulfur combined in this form might be more effective than free sulfur, a recognized insecticide.

Entomologists and plant pathologists investigated the fungicidal as well as the insecticidal properties of this group. One of the first compounds tested, sodium dimethyldithiocarbamate,  $(\text{CH}_3)_2\text{N-C(S)SNa}$ , even in dilutions of 1:30,000, was found to be a powerful fungicide, but somewhat injurious to plant life.

This led to a systematic program of research including other metallic salts, the ethyl, propyl, butyl, phenyl, and other aryl derivatives of the dithiocarbamates and thiuram mono- and disulfides, and the related compounds

made from ethylenediamine and morpholine. In this phase of the work, organic chemists played an important role by suggesting various derivatives and preparing them for tests. Later, in cases where proper dispersion and adherence of the compounds to plants were important, the skill of physical chemists was called upon.

In general, the compounds of greater chemical stability were found to be less effective. Fungicidal efficiency diminished with increase in size of alkyl radical, and as aryl radicals were substituted for alkyl. Thus the unusual situation developed that with the exception of the bisethylene (dithiocarbamates), the first and simplest products tested, the methyl derivatives, proved to be the best fungicides.

Iron and zinc dimethyldithiocarbamates,  $(\text{CH}_3)_2\text{NC(S)-S-M-S(S)CN}$  ( $\text{CH}_3$ ), are now sold as "Fermate" fungicide and "Zerlate" fungicide respectively, for control of fungous diseases of many fruit and vegetable crops, tobacco, flowers and other ornamentals. Zinc ethylenebis(dithiocarbamate),  $\text{Zn(-SC(S)NHCH}_2\text{CH}_2\text{NH(S)CS-)}$ , marketed as "Parzate" fungicide, has specific action in the control of late



B. L. Richards, Jr. Ph.D., Cornell '44, and A. H. Gaddin, M.S., University of West Virginia '32, test efficiency of "Parzate" fungicide in control of tomato late blight and bean rust. Equipment is specially designed laboratory spray chamber.

blight on potatoes and tomatoes. Tetramethylthiuram disulfide,  $(\text{CH}_3)_2\text{NC(S)-S-S-C(S)N(CH}_3)_2$ , is used in two compositions, as "Arasan" disinfectant for seeds and "Tersan" fungicide for turf diseases.

Overall, the derivatives of these groups of compounds proved to be outstanding as fungicides, rather than as insecticides. Although a marked degree of specificity for different pests was characteristic of the members of this series, it is interesting to note that all three were highly effective. This work offers still another example of how the breadth of interest in a company like Du Pont can lead to worthwhile developments.

Questions College Men ask about working with Du Pont

#### What are the opportunities for research men?

Men qualified for fundamental or applied research are offered unusual opportunities in facilities and funds. Investigations in the fields of organic, inorganic and physical chemistry, biology, parasitology, plant pathology and engineering suggest the wide range of activities. Write for booklet, "The Du Pont Company and the College Graduate," 2521-A Nemours Building, Wilmington 98, Delaware.



BETTER THINGS FOR BETTER LIVING... THROUGH CHEMISTRY

More facts about Du Pont— Listen to "Cavalcade of America," Mondays, 8 P.M., EST on NBC

Field testing of promising fungicides, including "Parzate" formulations, for control of tomato late blight.



## Sports Schedule

FRIDAY, JANUARY 9

Basketball — Varsity vs Boston University at B.U. 8:00 p.m.  
 Freshmen vs Boston University at B.U. 7:15 p.m.  
 Swimming — Freshmen vs Boston University at Alumni Pool 8:00 p.m.

SATURDAY, JANUARY 10

Swimming — Varsity vs Trinity at Alumni Pool 4:00 p.m.  
 Freshmen vs Brookline H. S. at Alumni Pool 2:45 p.m.  
 Wrestling — Varsity vs Springfield at Armory 2:00 p.m.  
 Freshmen vs Springfield at Armory 2:00 p.m.  
 Squash — Varsity vs Amherst at Squash Courts 2:00 p.m.

### Model Railroad

(Continued from Page 1)

leading to the return of the stolen articles. This amount may soon be increased by the individual members who suffered losses. Anyone with information about

the above articles, or about the robbery, is requested to contact John F. Moore, '49, Secretary-Treasurer, Box 349, Dormitories, or to inform the Model Railroad Club during the regular meetings at 5:15 p.m. every Tuesday in the new clubroom in 20-E-216.

## Grapplers Clash With Springfield

### Team Hopes to Gain First Win of Season

Hoping to win their first match of the season after two setbacks, the Tech matmen will hook up with the grapplers from Springfield College, 2 p.m. tomorrow at the Armory. The Tech wrestlers got off to a poor start this season losing matches to Brown University, as part of the Techsappopin week-end, and to Harvard University, but the team is working to develop the winning form that won them the New England Intercollegiate Wrestling title last year.

Leading the Techmen are Captain Whit Mauzy, Dick Lemmerman, Wil Haggerty, Joe Deputula, and Lars Soderburg. Although none of them were victorious against Harvard (the team was shut out 28-0), they all registered wins in their matches against Brown and should prove to be the mainstays of the team during the rest of the season.

The freshman team will also get a chance to gain its first victory when the '51 matmen wrestle the Springfield College Frosh.

## Icemen Suffer As B.C. Cometh

MIT's rugged, undermanned, hard-pressed hockey quintet lost to one of the nation's powerhouses, Boston College, in a close, poorly refereed, rough contest, 6-4, in the last game before the Christmas vacation.

The score went 1-0, 1-1, 2-1, 3-1 and 4-1 for BC before Tech put on the pressure to score and make it 4-2 as the first period ended. Lea (from Madden) and Willard (unassisted) scored for Tech and a whole mess of All-Stars piled it on for BC. One of the Eagle's scores came on a major penalty shot, the only penalty of the period.

Early in the second period the Beavers tied up the game by handcuffing both referees and playing even with BC. Lea (Seifert) and Walworth (Tenney, McKim) did the scoring. Late in the period BC went ahead 5-4. No penalties in this period.

From then on it was all a matter of how long Tech could stand up under such odds. Lea got a major penalty about halfway through the period, and when he returned he immediately injured himself to keep up his tradition of at least one injury in every game he plays. Then, shortly after they carried Tenney from the ice with a slashed face, BC put in the clincher and the game ended 6-4. Lea's penalty was the only one of this period also.

Adams in the goal and Madden and Tsotsi at the points were sensational on defense. Lea, while he lasted, was the sparkplug of the offense.

## 3 Teams Boast Perfect Record In Intramurals

### Reeves, Winder Tie For Scoring Honors; Register 54 Points

Leading the 40 teams competing in five leagues of the intramural basket ball tournament, Sigma Alpha Epsilon, Phi Kappa Sigma and Theta Chi maintained undefeated records throughout December.

The tourney, which began the first week of December, is now moving into the closing weeks, with most teams slated for one more league game. At the completion of intraleague play, a round-robin among the leagues will be inaugurated.

### Pace Scoring

Tied for high honors with 54 points apiece, Burch Winder, of the Phi Gams, and John Reeves, of Phi Kappa Sigma, led the individual scorers during the first month of play. Third in the scoring parade was John Roy, of Phi Sigma Kappa, with 45 markers. The leading scorers, all sophomores, registered their total in four games.

Holding a slight edge in the points-per-game average, Dick Davis, of Theta Chi, tallied 41 points in three games, according to figures released by Fritz Dunmire, intramural basketball manager. Also included among the two highest scorers in each league were George Merrow and John Bent, of Delta Upsilon; Don Molino, of Lambda Chi Alpha; Mark Nelkin, of Sigma Alpha Mu; Rolfe Folsom, of Westgate; and Howie Hender-shot, of Sigma Chi.

### League Leaders

The teams leading the five leagues as of January 1 are: Senior House B, Hayden-Bemis and Sigma Nu, of League A, each with three wins and a loss; Sigma Alpha Epsilon, of League B, with three victories and no defeats; Monroe-Walcott and Phi Sigma Kappa, of League C, each with three victories and a loss; Phi Kappa Sigma, of League D, with four triumphs and no losses; and Theta Chi, of League E, with three wins and no defeats.

Averaging better than 50 points a game, the Theta Chi quintet racked up a 173 point total in its three games to pace the tourney in team scoring. The Theta Chi courtmen registered the most decisive triumph of the tournament in defeating Alpha Epsilon Pi by a 91-22 score.

## TECH MOTORS

### "Studebaker Sales and Service"

4 SPECIALS FOR THE COMING WEEK

1941 FORD CLUB COUPE — \$925

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## Cause for American Pride...

*Four score and seven years ago our fathers brought forth, upon this continent, a new nation, conceived in liberty, and dedicated to the proposition that all men are created equal.*

*Now we are engaged in a great civil war, testing whether that nation, or any nation, so conceived, and so dedicated, can long endure. We are met here on a great battle-field of this war. We have come to dedicate a portion of it as the final resting place for those who here gave their lives that that nation might live. It is altogether fitting and proper that we should do this.*

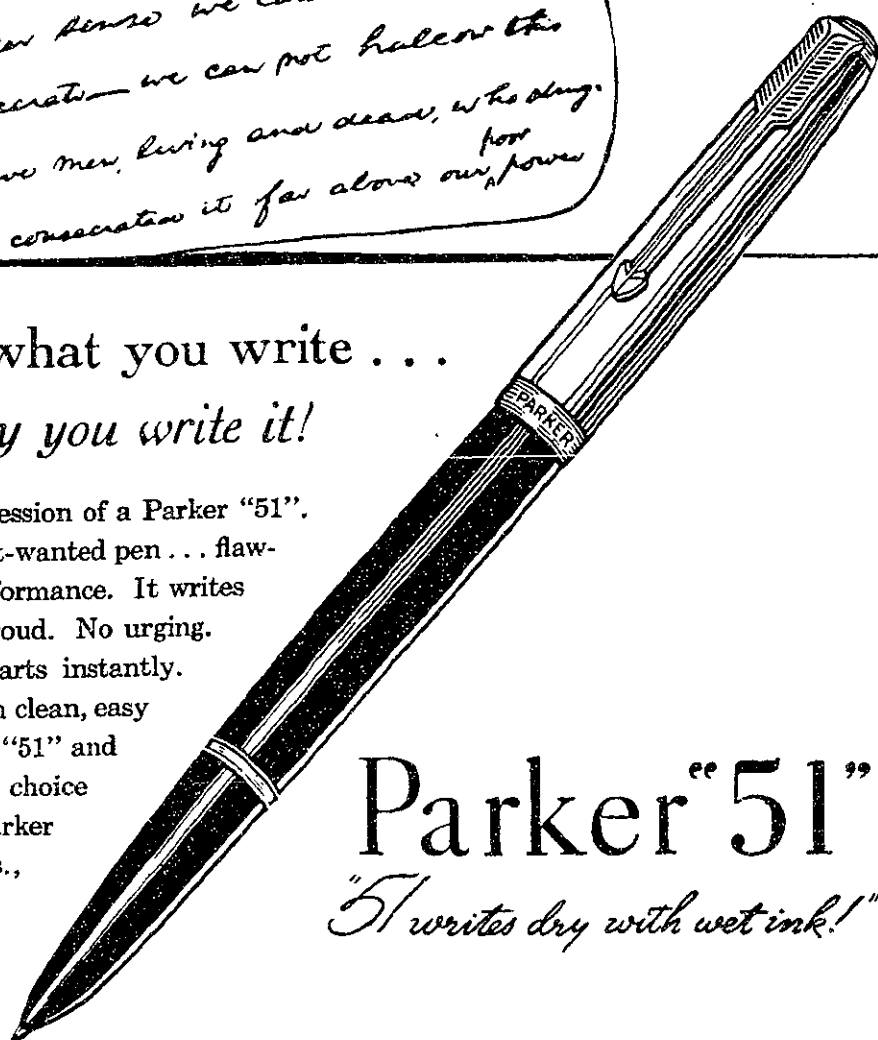
*But in a larger sense we can not dedicate—we can not consecrate—we can not hallow this ground. The brave men, living and dead, who struggled here, have consecrated it, far above our power*

### THE GETTYSBURG ADDRESS

\* Just ten stirring sentences in all. But they are an immortal expression of democracy and freedom. Shown here, in Abraham Lincoln's own handwriting, is part of the manuscript from which he spoke on the afternoon of Nov. 19, 1863. The original, along with more than a hundred documents famous in American history, is on exhibit aboard the "Freedom Train". This train is now on a nationwide tour. Watch for its arrival in your area!

Be proud of what you write... and the way you write it!

Pride comes with the possession of a Parker "51". For this is the world's most-wanted pen... flawless in its beauty and performance. It writes in a way that does you proud. No urging. No coaxing. The "51" starts instantly. Coasts across the page with clean, easy strokes. Two sizes: regular "51" and new demi-size. Both with choice of custom points. The Parker Pen Co., Janesville, Wis., U.S.A., and Toronto, Can.



## Parker "51"

"51 writes dry with wet ink!"

### Skiers Gain Affiliation To Athletic Association

Technology's ski team, formerly sponsored by the Outing Club, was last month recognized by the Athletic Association as a full-fledged Institute team.

Skiers are now eligible for letters, and the team captain and manager represent the squad on the A.A. council. With A.A. affiliation the ski team also gains the use of facilities made available to Technology teams by the A.A.

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William J. Hart '48, Director Year First Elected 1947

FROM M.I.T. AT LARGE

Harold E. Lobdell, Director Year First Elected 1947

Ralph E. Freeman, Director " " " 1940

Horace S. Ford, Treasurer " " " 1919

Walter Humphreys, Secretary " " " 1917

The Board consists of fifteen Directors including the four Officers

### Activity Briefs

The Tech Engineering News recently announced the following staff promotions, effective last month:

Managing Board: Edward M. Kosower, '49, General Manager; Edward T. Miller, '49, Editor-in-Chief; William R. Bohlman, '49, Business Manager; Guido J. Frasinelli, '48, Managing Editor.

Junior Board: Mario S. DiQuilio, '48, Circulation Manager; Harrison C. White, '50, Literary Editor; Ralph C. Johnston, '50, Literary Associate.

#### OUTING CLUB

The M.I.T.O.C. is conducting two trips this weekend: a ski trip on Sunday and an excursion to Tech Cabin on Saturday and Sunday. The latter affair is being held in conjunction with the outing club of Mt. Holyoke College.

#### DEBATING SOCIETY

Preparations for tournaments at Boston University, West Point, and Technology, which climax the year's debating activities, have been started by the M.I.T. Debating Society this week. Continuous tryouts for the varsity and a series of preparatory decision debates are planned for the next few months.

The society is well on its way to its best record in recent years. Wins have been chalked up against Harvard, Boston University, Brown, Mt. Holyoke, and Middlebury (twice). A lone loss to Mt. Holyoke leaves the varsity with an .857 average for the fall season.

Present varsity members are: John W. Colton, '48; Robert P. Auty, '48; Edward D. Eich, '48; Charles M. Wiswell, '48; John M. Rau, '49; William C. Bibb, '50; Leonard H. Caro, '50; James T. Jensen, '50; and Edward L. Perkins, '50.

### Placement Bureau To Present Talks On What It Does

The Institute Placement Bureau will present a lecture for June, 1948, Graduates, "The M.I.T. Placement Bureau and what it does for Students and Alumni." The lecture will be given in Room 10-250, at 3 p.m. on Monday, January 12.

Speakers will include Mr. Nathaniel McL. Sage, Placement Director, Professor Carlton E. Tucker, Assistant Placement Officer, and Mrs. E. A. Yates, Alumni Placement Officer.

Another lecture, "How to Get a Job and How to Interview," will be given Monday, January 19, at 3 p.m. in Room 10-250. Professor A. L. Townsend of the Mechanical Engineering Department will be speaker.

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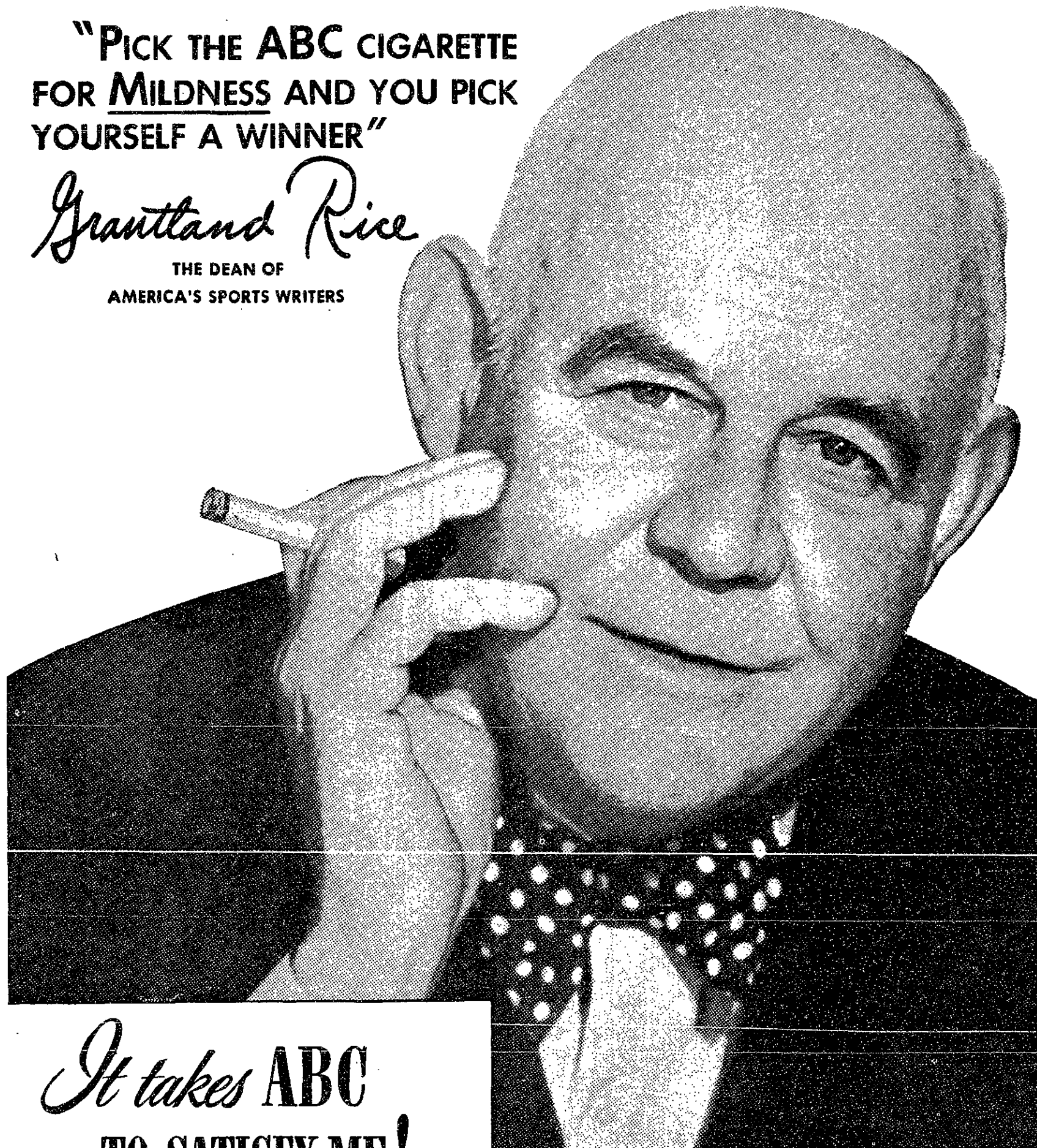
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### "PICK THE ABC CIGARETTE FOR MILDNESS AND YOU PICK YOURSELF A WINNER"

## Grantland Rice

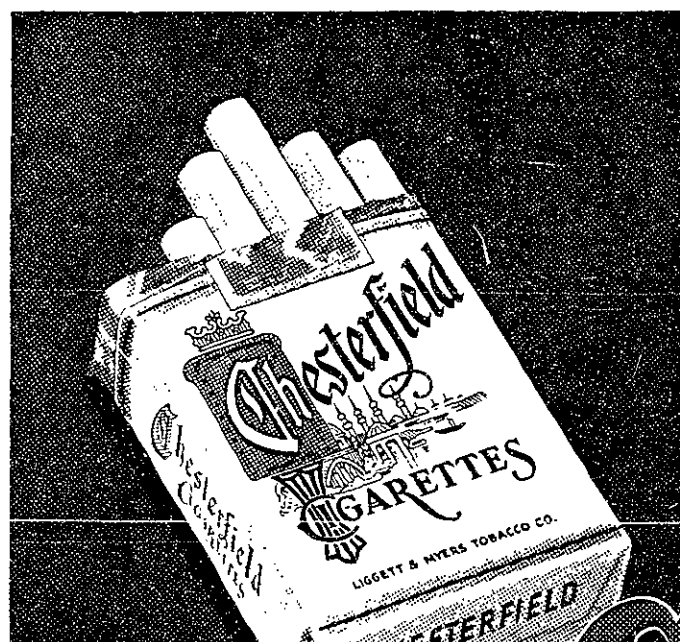
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