

# THE TECH



CAMBRIDGE, MASS.  
FRIDAY, SEPT. 21, 1951  
PRICE FIVE CENTS  
VOL. LXXI NO. 29

THE OFFICIAL NEWSPAPER  
OF THE M.I.T. UNDERGRADUATES

"THE TECH" SMOKER  
Tuesday, Sept. 25 at 5:15 p.m.

Litchfield Lounge

## Baker Residents Protest Dining Overcrowding

Like Topsy and inflation, lines at the Baker House dining hall have been growing and growing with each meal during the week.

A total of 180 residents of Burton House have caused the bottleneck by signing up for commons meals at Baker House. Residents of Baker held a protest meeting last Wednesday night.

Dean Bowditch attended part of the meeting and explained that the housing situation was very unsettled at the moment, and that all those in the administration connected with dining and housing services were doing their best to alleviate difficult conditions throughout the dormitory system. He could not offer any specific proposals at the time.

### Proposals and Suggestions

In its proposals on campus living, issued last spring, the administration suggested that 100 Burton House residents dine in Baker with the remainder to be accommodated in the Campus Room of the Graduate House. The Campus Room plan has apparently been proven unfeasible.

Student suggestions at the meeting ranged from creating special hours at Baker House for Burton House residents to making commons meals for Baker House residents optional instead of mandatory. This year all freshmen are required to eat either in Walker Memorial or in Baker House.

### M.I.T. Hillel

M.I.T. Hillel, the organized section of Jewish students on campus, presents its opening program tonight: Oneg Shabat: Services, Opening address by Rabbi Zigmund — Dancing, Singing, and Refreshments, Walker Memorial, 5:15 Club Room, at 7:30 p.m. The twelve other Hillel Foundations in Boston have been invited. These include Radcliffe, Wellesley, Simmons, Lesley, Chandler, Boston University, etc.

Further events in the near future are:

Brunch, Sunday, September 23, Hillel House, 5 Bryant Street, Cambridge, 10:30 a.m. Tefillin services before Brunch, 9:30 a.m. Acquaintance Dance for Freshmen, Saturday, September 29, Burton Lounge, East Campus, 8 p.m. Acquaintance Dance for Upperclassmen, Sunday, October 14, place to be announced.

## Development Plan Expands Housing and Lab Facilities

With the acquisition of Burton House, dedicated last June to the memory of Alfred E. Burton, the Institute now has housing facilities for more than 2100 students.

Although total registration figures will not be available until later this week, the Institute expects to be able to assign on-campus rooms to all students seeking such accommodations.

### New Laboratories

Students this year will also see completed, as part of the Institute's continuing development program, the John Thompson Dorrance Laboratory and the Sloan Metals Processing Laboratory.

The John Thompson Dorrance Laboratory, made possible by a gift of \$1,000,000 from the Campbell Soup Company, will house the departments of biology and food technology, and the specialized equipment necessary for research in these fields. Named in honor of

## New Air Force Advanced Course

Major Lineham is presently awaiting final approval of the Committee on Undergraduate Courses of the new general technical course which is to be offered in addition to the communications course next fall to selected first year advanced course students in the Air Force R.O.T.C. The Communications course will be given primarily to Course VI and VIII students in the Air Force R.O.T.C. advanced program while the General Technical course will be offered to all other advanced course students.

Recently received orders to active military service for the majority of the Air Force R.O.T.C. June graduates show that they will specialize in research and development activities.

## Faculty Residents Move To Baker, East Campus Houses

Proofs for the Directory of Students will be posted in the following places from September 25 through September 27: — Building 2, First Floor; Building 5, First Floor; Building 10, Lobby. Each student is requested to inspect a list and to report any corrections to the Registrar's Office, Room 7-142, on the cards provided.

## Tech Show Auditions Will Begin Sept. 24

Auditions for Tech Show will begin Monday and will be held for two weeks in Tech Show's offices in Building 18. They will last from 5:00 to 6:00 p.m. Monday through Friday of these two weeks.

Although anyone with any talent for entertainment is desired, Business Manager Paul A. Lux, '52, cites a special need for secretaries and coeds. Anyone who is interested in writing, production work, or business is also invited to come at the same time.

the late John Thompson Dorrance, president of the Campbell Soup Company from 1914 to 1930 and a member of the class of 1895, the new laboratory building will provide facilities to meet an increasing demand for graduates technically trained in the cause of better health and better food.

The Sloan Metals Processing Laboratory building, made possible by the gift of \$1,000,000 from Alfred P. Sloan, Jr., Chairman of the Board of General Motors, will enrich and extend the Institute's engineering program in a field of increasing technological importance. The new building represents a pioneering effort on the part of the Institute to combine in an educational and research program the metallurgical and mechanical engineering approach to the fabrication of materials.

Both new laboratory buildings are being constructed on the main campus of the Institute.

## 350 Gals Grace All-Tech Dance

Morss Hall in Walker Memorial will provide the dance floor when the Institute plays host to more than 350 girls at the annual All-Tech Acquaintance Dance on September 28, a week from today.

Sponsored by the Technology Catholic Club, the dance is always the best attended of the acquaintance parties, and the girls, invited from 18 schools in the Boston area, are of all faiths. Refreshments and intermission entertainment supplement the dance music, this year provided by George Graham and his orchestra.

Admission will be \$1.25, tax included. Tickets are available in the lobby of Building 10 and will be sold at the door. Dancing will be from 8:00 p.m. until midnight.

To assist the dormitory student at times of need, the Institute administration has this year adopted a plan of having at least one faculty member residing in each dormitory unit. Professor Frederick G. Fassett, Jr. and his family are now living in Baker House in the Master Suite, which needed no alterations; Professor S. Curtis Powell, with an assistant, has moved into a recently remodeled suite in Munroe on East Campus; and Professor John Ruie and his family plan to move into Burton House as soon as their apartment is completed.

"These members of the faculty have no definite duties, but are to offer whatever service they can to assist the students in any way," reports Assistant Dean of Students Thomas L. Hilton. This is the outcome of a program the administration has been considering for several years.

## SOPH FOOTBALL

As no one showed up last Wednesday, another Soph rally will be held on Friday, Sept. 21, at 5 p.m. in Room 2-190. Sophomores! If you are interested come to this rally.

## WMIT SMOKER

The campus radio station, WMIT, will hold a smoker in Tyler Lounge, Walker Memorial, at 5:00 p.m. on Monday, Sept. 25. All interested freshmen are invited.

## Baker Memorial Prints

All students desiring an Everett Moore Baker Memorial Print for the semester must submit their applications to the T.C.A. office by 5:00 p.m. Friday, September 21. Drawings will be held on Saturday, September 22.

## DEFERMENTS

It is brought to the attention of students that statutory deferment of students mentioned in last Tuesday's issue of *The Tech* not only does not apply to those who have had postponement of induction during the last academic year, but also to students who were given a 2-A classification last year and no longer meet the criteria for student deferment.

## New Lowell Institute F M Station Starts Educational Broadcasting

### Full-Length, Live Symphony Will Inaugurate October Start

A new high-power non-commercial FM station for educational broadcasting, will bring to the people of New England full-length "live" performances of the Boston Symphony Orchestra for the first time since 1926, as well as the cultural resources of Greater Boston colleges and universities. It was announced last Wednesday by Ralph Lowell, Trustee of the Lowell Institute, broadcasting will begin on Saturday, October 6 at 8:30 p.m., with the first Saturday evening performance of the Boston Symphony Orchestra's 71st Season.

### "Design For The Sea" Exhibits in Building 7; Oils in New Gallery

The exhibition "Design for the Sea" now on display in the lobby of Building 7 provides an insight into man's ingenuity in the design and construction of ships for both commerce and communication.

It consists of numerous photographs, drawings, models and marine appurtenances, and is arranged in four parts:

1. INTRODUCTION, indicating the extent of the seas, their significance to technology, and the scale of the vessels that ply them.
2. FUNCTION, illustrating the hazards encountered on the seas, and the technical requirements ships must satisfy for successful operation.
3. FORM, showing some of the visual aspects of ship forms, evolved in answer to the requirements.
4. MATERIALS AND TECHNIQUES, showing the processes and details of construction of both wood and steel vessels.

The Exhibition will be open till October 8.

### Standard Oil Gift

Standard Oil Company of New Jersey has presented to the Institute twenty-three paintings and three drawings which become part of the Institute's permanent collection. These paintings and drawings are now on view in the New Gallery of the Charles Hayden Memorial

(Continued on Page 4)

### Greater Boston Colleges

To inaugurate the new station, which will have the call letters WGBH, the Boston Symphony Orchestra has joined with the Lowell Institute as well as with M.I.T., Boston College, Boston University, Harvard, Northeastern University and Tufts College—all of which have been members of the Lowell Institute Cooperative Broadcasting Council since it was organized in 1946.

"This new radio station will be the only one of its kind in the United States in which a major symphony orchestra is collaborating with a group of colleges, universities and other cultural institutions to offer a program of general education for all groups in the community," Mr. Lowell stated.

### Location and Operation

Station WGBH, with studios in Symphony Hall and transmitter on Great Blue Hill, Milton, Mass., will operate at 89.7 mc. in the FM band on Channel 209, with 20,000 watts effective radiated power. It will broadcast daily from 3:00 p.m. to 10:30 p.m. During the Symphony season, broadcasting will begin at 2:15 p.m. on Fridays, and on Saturdays will continue until the close of the orchestra's performance.

"Boston has well-established stations, both AM and FM, in the field of commercial radio," Mr. Lowell stressed, adding that WGBH would not duplicate their offer.

### Programme Contents

"WGBH will present to FM listeners numerous programs never before available in this area on a regular schedule. They will include regular courses recorded in the classrooms of Greater Boston's colleges and universities; forums on world affairs with distinguished

(Continued on Page 2)

## Institute To Hold First Grad Convocation; Killian, Bunker To Be Feature Speakers

The first Graduate School Convocation in the history of the Institute will be held in the Great Court at noon today. Although the convocation has been called to accord formal recognition to graduate students and their integral part in Institute activities, the core topic this year will be the relationship between graduate study and our national needs.

This topic will be the subject of an address by President James R. Killian, Jr., who will also preside at the convocation. A related topic, "Responsibility," will be discussed by Dr. Karl T. Compton, Chairman of the Corporation, who will suggest some of the civic, national, and professional responsibilities which come to recipients of advanced degrees from the Institute.

### Further Addresses

Dr. John W. M. Bunker, Dean of

the Graduate School, will examine the problem of maintaining graduate status in view of the requirements of cumulative ratings, selective service, and officer reserves. Besides presenting a brief analysis of the importance of graduate study in today's world, the Dean will summarize the present policy of the Selective Service System for the deferment of graduate students.

Directly in harmony with the founding purpose of the convocation will be a talk by Dean E. Francis Bowditch, recently appointed Dean of Students, on "Outside of Study Hours," in which Dean Bowditch will discuss the relationships between extracurricular activities and academic accomplishments.

Since the convocation is an official graduate school function, all graduate classes from 12:00 to 1:00 today will be omitted.

# The Tech

VOL. LXXXI FRIDAY, SEPTEMBER 21, 1951 NO. 29

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**IN REMEMBRANCE**

With the death of Otto Tonnesen this summer the Senior Class has lost one of its outstanding members. Active in the Inter-Varsity Christian Fellowship, the Logarithms and Sigma Nu Fraternity, he had been a member of the swimming team since his Freshman year. Those who knew Otto will find him hard to forget.

**FRESHMAN CAMP —  
LET'S KEEP IT IN CAMBRIDGE**

For the second year in a row Freshman Camp was held here in Cambridge. Last week's program was a vast improvement over that of 1950, sufficiently so, that we believe the camp should be held on Institute grounds every year. An orientation program at a site such as Camp Wonderland cannot leave a deep impression on the entering student, because he can only hear of what lies in store for him at Technology; he cannot see it.

Those who maintain that the freshman this year and last wandered off "the reservation" too much, should remember that a visit to Boston in the evening will be of far more value to them during the coming weeks than will playing cards in a log cabin. The guided tours of the new Hydrodynamics Laboratory, the Cyclotron, and a wind tunnel were opportunities to visit school landmarks that the incoming student may never have again. Section meetings give the freshmen a chance to meet the students who will be with them during the coming term. Questions asked, and answered, during this two hour period can be acted on at the COOP, in the Medical Department, or at the Dean of Students Office, the next morning if necessary. Orientation at the Institute eliminates the feeling of detachment the student feels fifty miles away at Sharon, Massachusetts.

Particular improvements over last year were the shortening of the after-dinner speeches, and the better planned talks at the Activities Rally. Next year, if possible, the long wait for keys at the Dormitory Office should be prevented, and a Faculty-Freshman baseball game incorporated in the program. The freshmen, understandably, took little interest in a game between Faculty members they had not yet met, and Counsellors they did not know.

Last spring, the Institute Committee reversed itself on the location of this year's Freshman Camp. The members of the committee should not be expected to remember the good and bad points of a particular camp six months later. The report of the Freshman Weekend Committee should be completed as soon as possible, so that Institute Committee will have a chance to vote on the whereabouts of next year's program while memories of last week are still clear.

**"JOIN YOUR VOICES FROM THE SKY"**

As in past years no real attempt is being made to have the Freshman Class learn the school songs. Group singing had been planned for after the meals at Freshman Camp, but for some reason it was not held. It was not until this summer that we realized how well our school songs stood up in comparison to those of other colleges. In our company at R.O.T.C. Summer Camp at Fort Lee, Virginia, were men from the Universities of Michigan and California. While returning from bivouac by truck convoy these cadets began singing "Hail to the Victors," "Hail to California," "Sons of M.I.T.," and "Beaver, Beaver." We tried to join the singing of the latter two, but found we did not even know the words to the songs of our own Alma Mater. It seems that the men from Michigan and California had learned the words from one of the few Techmen who knew them.

We hope that those groups whose function it is to instill spirit in the Freshman, will make a special effort to teach the Class of 1955 their school songs.

**New Calculus Text  
Has Same Scope  
But New Technique**

By Ed Eigel

At the beginning of the fall term last year, the freshmen were somewhat relieved to learn that the famous Phillips Calculus book had been replaced. Associate Professor George B. Thomas of the Mathematics Department had written a new text.

Calculus and Analytic Geometry, according to the author, was written with the idea that the classroom type of explanation in the text itself might increase the comprehension as well as the student usage of such a book. In subject matter and order of presentation, the new book follows very closely Phillips' book, which, the Mathematics Department agreed, had the best coverage and order for the students at Tech. It is chiefly in the style of presentation, with the different type of explanations, that Professor Thomas made his changes. He also tried to explain the reason for including each new subject as it appeared, although this was not always an easy task.

**Based on Experimental Course**

Two years ago, the book, in preliminary form, was used experimentally by two freshman sections. This gave a basis for the smoothing out of rough spots, and enabled Professor Thomas to get the students reactions to his work. Last year the book was used by all freshmen, while two sections of Sophomores in Course X used the preliminary form of the M21 part of the text on an experimental plane.

This year the volume in complete form is being used by freshmen and first term Sophomores as well as by students in other schools, among

(Continued on Page 4)

**Lowell Station**

(Continued from Page 1)

New England scholars and scientists; comprehensive interpretation of news and events by faculty specialists; full-length drama; broadcasts of important local musical and educational events when and where they happen; educational programs from other colleges and universities throughout the country; and special features from the British Broadcasting Corporation, Radiodiffusion Francaise, the Canadian Broadcasting Corporation and other international broadcasting services.

In announcing that Station WGBH will be operated with the advice and cooperation of the Lowell Institute Cooperative Broadcasting Council, Mr. Lowell emphasized that "the Council will continue its policy to present programs over Boston's commercial AM, FM and TV stations which, by their generous cooperation in furnishing the colleges and universities with choice evening time on a sustaining basis, carry Council programs to wide audiences throughout New England."

**Station Manager**

Mr. Lowell announced further that the General Manager of Station WGBH will be Parker Wheatley who has been Director of the Lowell Institute Cooperative Broadcasting Council since it was organized in 1946. Mr. Wheatley was Chief of the Radio Programs Section of the Armed Forces Radio

Service during World War II. Earlier, he had been Radio Director of Northwestern University, Evanston, Ill., and previously was engaged in commercial broadcasting in Chicago.

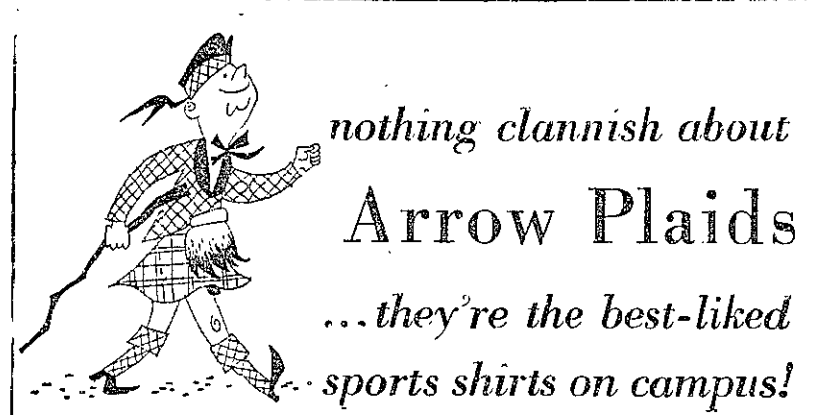
"The inauguration of Station WGBH represents the culmination of a unique five-year experiment in adult education by radio and television," Mr. Lowell declared. "The Presidents and faculties of the institutions associated with the Council in this new enterprise are to be congratulated on a major contribution to the growth of this community in particular and to the field of learning as a whole in extending more widely than ever before their outstanding educational resources. Their uniform willingness to associate themselves in this endeavor marks a responsible step towards meeting the educational challenge of our time."

**Mr. Lowell**

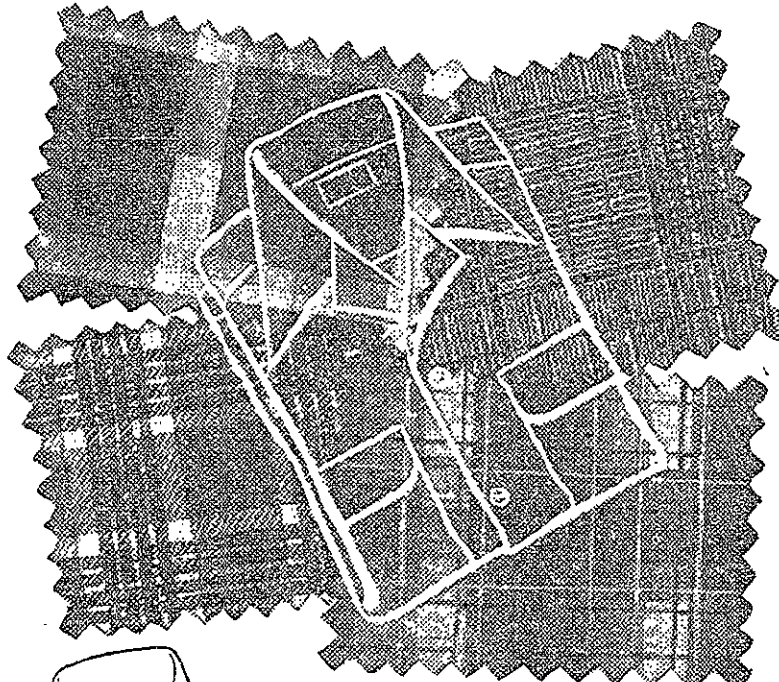
Mr. Lowell, who was elected President of the Boston Museum of Fine Arts earlier this year, is President of the Boston Safe Deposit and Trust Company, formerly an Overseer of Harvard University, a member of the corporations of Massachusetts Institute of Technology and of Northeastern University and a Trustee of Boston University. He also is a Fellow of the American Academy of Arts and Sciences. He holds the honorary degrees of Doctor of Laws from Northeastern University and of Doctor of Humane Letters from Tufts College.

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# Field Day Practice Starts; Frosh, Sophs Still Needed

Field Day is one of the oldest institutions at the Institute. For the last 51 years it has provided an outlet for the traditional rivalry between the freshman and the Sophomore. The freshman won in 1901, the year of the first Field Day, but since then they have only been able to eek out 11 victories.

This year the interclass struggle is scheduled for October 27. For the benefit of the freshmen and Sophomores who are interested in actively supporting their respective classes on Field Day and who have not yet contacted the coaches, a list of the sports, their coaches, and where to contact these coaches follows:

**Fresh:**  
Football; Head Coach—Bill Teeple—afternoons at Briggs Field House.  
Swimming; Coach—Jack Walsh—at the pool.

Track; See Oscar Hedlund anytime after 2 p.m., at Briggs.  
Crew; Chuck Jackson—at the boathouse.

Tug-of-War; Coach—John Ehrenfeld—notice of first meeting to be announced.

**Sophs:**  
Football; Head Coach—Howie Anderson—afternoons at Briggs Field House.

Swimming; Coach—Dirk Plummer—at the pool.

Tug-of-War; Coach—Merwin Blum—notice of first meeting to be announced.

Track; See Oscar Hedlund anytime after 2 p.m., at Briggs.

Crew; See Coach Chuck Jackson at the boathouse. Men who earned numerals last year are not eligible to compete this year. Therefore a complete new team is needed.

# Cross Country Practice Begins

The 1951 Technology Cross Country Season opened in a spirit of optimism this week as one of the biggest squads in the last decade reported for practice. Four of last year's seven varsity runners are back this year, including Captain Charlie Vickers and former Captain Bill Nicholson. Juniors Jerry Tiemann and Bob O'Donnell are also back from the 1950 crew, which opened the season as a green lot that included only one letterman and went on to amass an undefeated season and take fifth place in the New England I. C. 3 A. Championship meet.

Freshman Captain John Avery, John Farquhar, Ian Williams and Bard Crawford head the Sophomore contingent. Paul Kaminski, Clyde Baker and Wilson Round, all experienced trackmen, are also among the standouts at the present time.

## Runners Rank Highly in N. E.

With this large and experienced group on hand the Beaver Harriers should regain their old place among the top favorites for the New England title. Nicholson, who finished a strong fifth in last year's race, will rank high among those mentioned as potential title winners in the big race. Boston University, Brown, Providence, and Maine will join the Techmen as chief early season favorites. However, the return of Freshmen to varsity eligibility could change these ratings drastically. Technology is one of a small minority of schools which will not use Freshmen in varsity competition.

So far the Freshman group is also very promising. John Dicey, Larry Bermann, Martin Gilvar, Charles Burr, Barton Roessler, Harry Schreiber, Bob Hill, and Carl

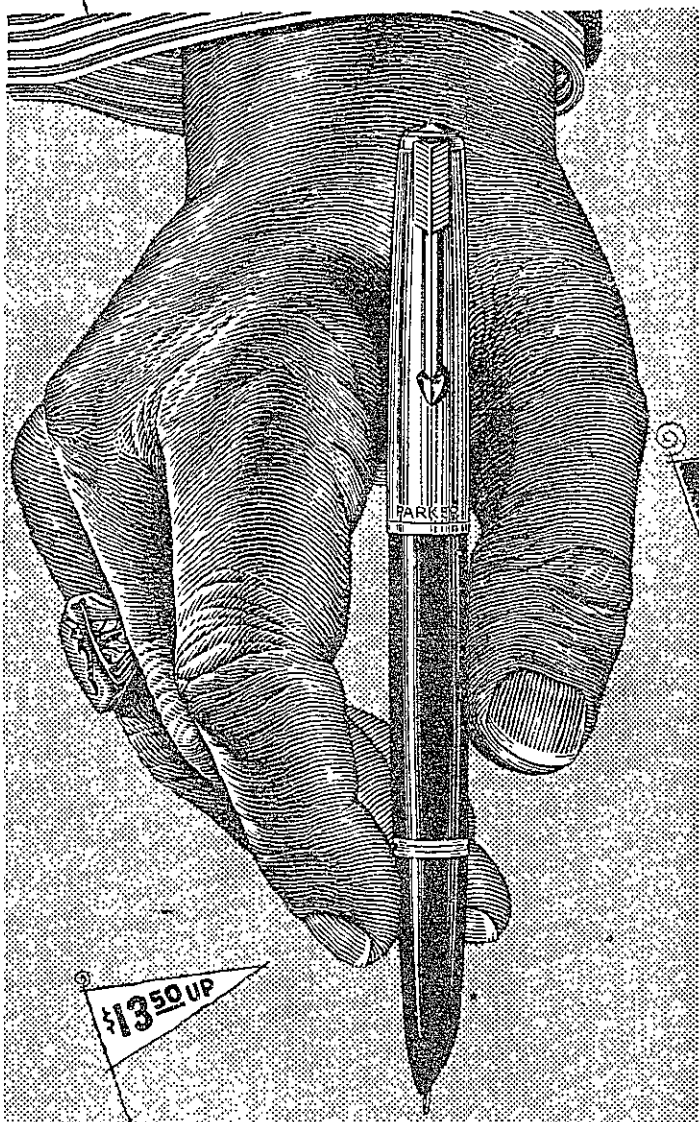
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# Crew Needs Freshmen

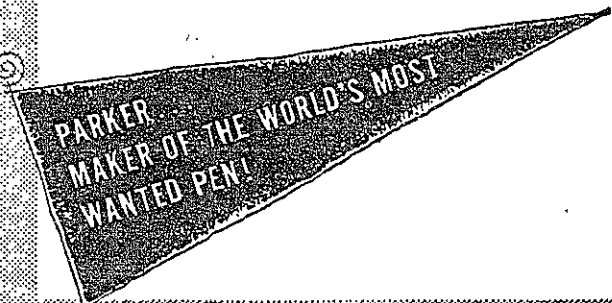
All freshmen who are interested in going out for crew are urged to contact Coach Chuck Jackson at the boathouse. No experience is necessary. Rowing is one of the top sports at Technology and our crews have always made an excellent showing. Last summer at Marietta the freshman crew was just nipped in the stretch by the Washington University aggregation, beating out every other top freshman crew in the country. Our crews have always had a good reputation in rowing circles. It is up to you freshmen to uphold this stellar record.

## Make Your Selection Of PARKER PENS At the TECHNOLOGY STORE

# Parker Preview for Fall!

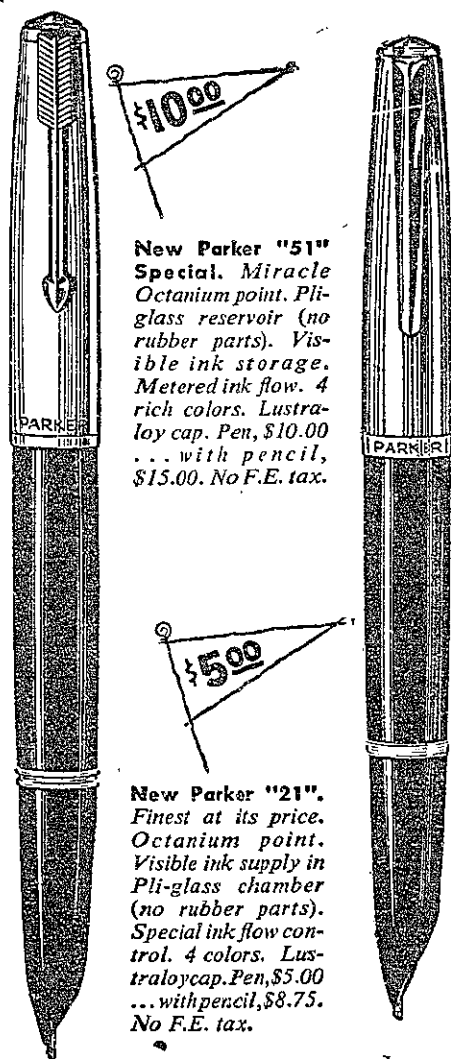


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Patronage Refund to Members

**Calculus**

(Continued from Page 2)

them the California Institute of Technology and Notre Dame. In two years the final book will be published, after all problems have been smoothed out as a result of these experimental years of general usage.

Looking back on his work, Professor Thomas says that the hardest problem he encountered was forcing himself to sit down and do the actual writing. There were also parts of the book that caused special trouble; the chapter introducing integration was written completely three times before the author was satisfied that his first version was closest to what he wanted. Despite these problems, most freshmen and Sophomores will probably agree that Professor Thomas did a good job.

**Exhibit**

(Continued from Page 1)

Library. The Gallery is open from 10:00 to 5:00, Monday through Friday. The paintings in this collection constitute a pictorial record of the development and distribution of oil.

On exhibit are works by the following artists: Thomas Benton, Don Burns, Adolf Dehn, Ernest Fiene, Peter Hurd, Avery F. Johnson, Joe Jones, Mimi Korach, John McCrady, Frank Mechau, Ogden M. Pleissner, Georges Schreiber, Lawrence Beal Smith, Frederic Taubes, John A. Wedda.

The Exhibition closes on October 10.

**Cross Country**

(Continued from Page 3)

Seils form the nucleus of the team. However, Coach Oscar Hedlund still is hoping to get more men out when the Freshman A-1 program becomes more settled next week.

The 1951 schedule:

- Oct. 13 Tufts at Franklin Park (V & F)
- Oct. 19 Holy Cross at Franklin Park (V only)
- Oct. 26 New Hampshire at Franklin Park (V & F)
- Nov. 3 Massachusetts U. at Amherst
- Nov. 12 New England I. C. 3 A. Meet at Franklin Park (V & F)
- Nov. 19 I. C. 4 A. Championship Meet at Van Courtlandt Park, N. Y.

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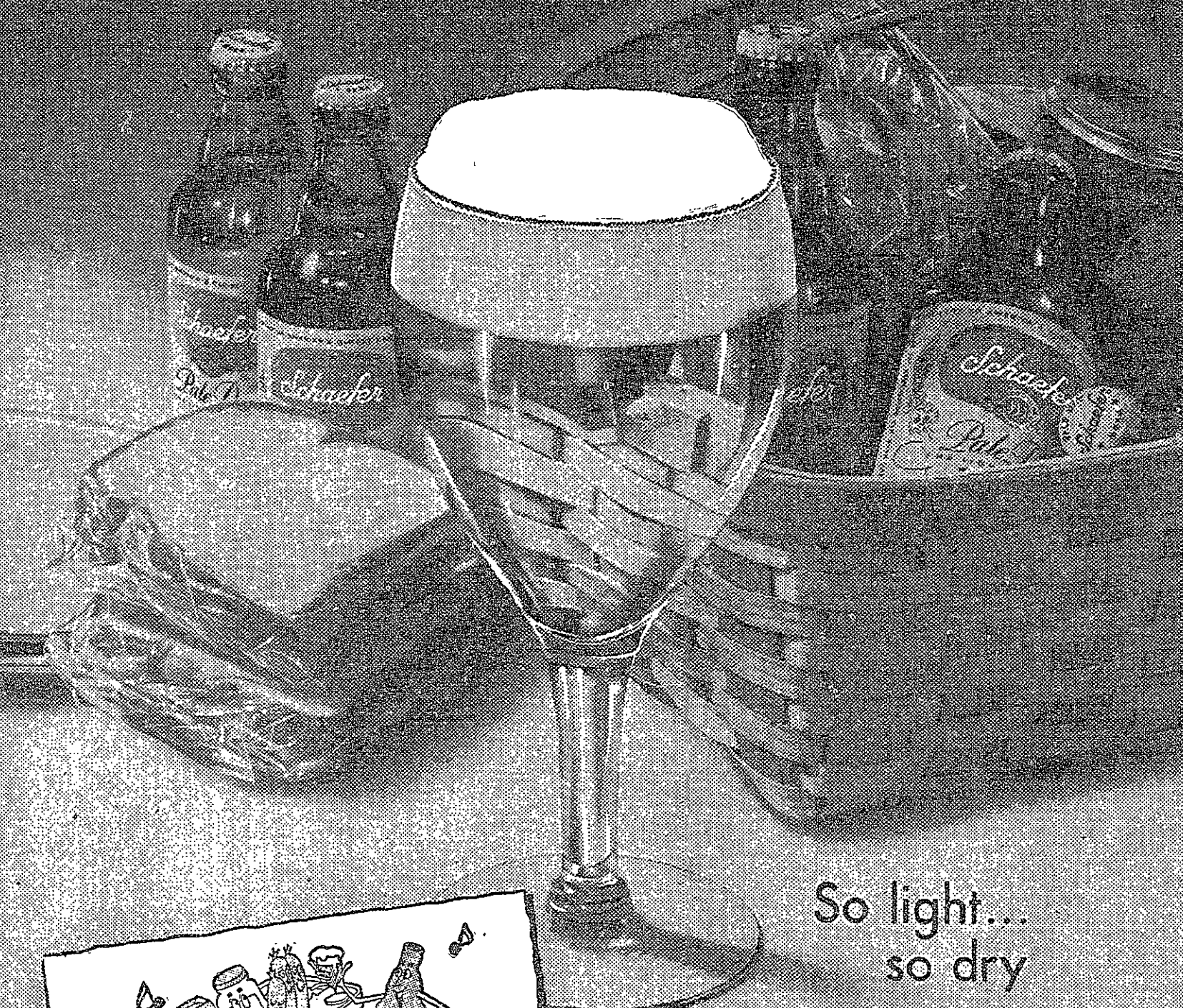
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