Cambridge, Mass. Tuesday, Sept. 25, 1951
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The Official Newspaper of the M. I. T. Undergraduates

Acquaintance Refunds of 10% On Cash Purchases

Patronage Refunds to be distributed on or after October 15 by the Harvard Cooperative Society for the fiscal year ending June 30, 1951, will be the guaranteed minimum of 10 per cent for each cash purchase of $2.00 and over. This amount, according to a statement today by Mr. R. B. Cole, President and General Manager.

Total sales for both the Harvard and Technology stores for this year amounted to $4,245,000. This figure shows an increase of $89,000 over the fiscal year ended June 30, 1950, and $13,000 over the total sales for 1949.

President Cole stated that the year 1947-48 was the most successful due to the fewest sales at both Technology and Mr. C. H. Cole has said the minimum of ten percent on cash purchases will be in effect next year.

A ten percent increase in sales for July and August, 1951 shows the 1950-51 season as compared to 1949-50.

Atom Defense Needs Stated by Bunker

American engineers can evolve effective atomic weapons to meet the military needs, according to a statement by John Welch '53, Chairman of the Technology store's sales figures for the last year. Welch is being featured in the current issue of the Harvard Coop. Mr. G. E. Cole, President and General Manager. The Coop reported 7,753 men-

Acquaintance Hall This Friday

Girls—690 of them—and men will be featured at the annual All-TEch Acquaintance Dance this coming Friday, September 28. The dance is sponsored by the Catholic Club, and all of girls have been invited.

Traditionally one of the most successful of Tech's acquaintances dances, this year's party promises to be one of the best yet, according to John Welch '53, Chairman of the Dance Committee. Technology students will be matched with those at the girl's schools to assure a good male-female balance. This dance year will be the first of the season in Mous Hall.

Refurbishments will be served during the month of June. The entire exterior will be repainted and the interior will be completely decorated and furnished. Lighting will be changed and windows will be set in place. The windows will look out on the back of the building and the exterior will be instantly made a part of the campus.

Mr. Welch is also constructing a large picture window to be installed in the back of the lobby. This window will be installed in the glassed-in corner of the room, which is used as a reading room for the new lounge. Plans for the lobby will be moved to room 1-173, and several more upper-classmen sign to attend.

Dr. Edgerton's Stroboscope Slows Down Birds, Bullets

In one of the more luxurious and expensive of his experiments, Dr. H. H. Egerston, professor of Theoretical Physics, has been busy with his stroboscope for the last few months. He has been given a special room in the basement of his house. The stroboscope is used for the study of moving objects by means of a flash of light.

In another experiment, Dr. Egerston has demonstrated the possibility of using the stroboscope to photograph birds in their natural habitat. The stroboscope is placed in a field of sand, and a camera is used to record the activity of the birds. The stroboscope is turned on and off rapidly, enabling the photographer to capture the birds in motion.

British Professor Discusses Molecules

"Theories of Molecular Structures" will be the subject of a talk to be given by Sir John Leonard-Johnson, professor of Physical Chemistry in the University of Cambridge, England, at a special staff seminar of the Department of Chemistry next Monday afternoon at 4:15 p.m.

A Fellow of the Royal Society and a member of the editorial board of the Journal of Physical Chemistry, Sir John Leonard-Johnson is also well known for his contributions to the theories of intermolecular forces and the structure of crystals and liquids.

In view of Sir John's eminent stature, all interested are invited to attend.

Fullbright Group Makes Two Additional Awards to Technology Students

The Institute's Fulbright Committee has received notices from the Fulbright Board of the award of scholarships for foreign study to two Technology students.

Bagwell Summer Rubin of Wal-

Dr. Edgerton's Stroboscope

(Continued from Page 4)

"The TECH" SMOKER

Tuesday, Sept. 25 at 5:15 p.m.

Litchfield Lounge

Sixty-three thousand dollars are available for the solicitation of State for two Technology students.

Fulbright Group Makes Two Additional Awards to Technology Students

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Bagwell Summer Rubin of Wal-

(Continued on Page 4)
The Tech

AS SEEN FROM HERE

by DAVID N. WEBER

"Billy Budd"

Litho many of the Greek tragedies, "Billy Budd" is a play of eternal truths. Good and evil, light and dark are characters of the play as well as the sailors who tread the deck of the H.M.S. Indomitable. With this dramatization of Herman Melville's novel by Louis C. Ogn, and Robert Chapman, a major work has been added to the literature of the theater.

The story is a simple one, derived from a true story that happened in the British Navy during World War II. Billy Budd, a young sailor, had been involved in a mutiny and was court-martialed. His ability to charm others and win friends he draws to his side. Then he is sentenced to death. In answer to Budd's plea to understand what is happening to him, Vere can only answer "the world demands, not justice, but order." As good and evil destroy each other there is left only an immense compromise. It is this compromise that is so easy, appealing,

For those who have not yet made a visit to the Brattle Theatre there is a pleasant evening in store for them. The theatre is on the order of those used for summer stock productions. There is a small balcony and a young girl in the house affords a clear view of the stage. While prices range from $1.25 to $4.50, we have found the best buy to be in the $1.50 range.

CAST

Budd ........................................... John Schilling
Vere ............................................ William S. Phinney
Macleay ....................................... John Margulis
Shuyler ............................................ Laura G. Hacker

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Acquaintance

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FOR THAT WELL-GROOMED LOOK

LANRY'S BARBER SHOP

SEVEN BARBERS—NO WAITING

Opa, Sigs 7 Enmore
Freshmen—Sophomores Prepare For Coming Event

With the Field Day rallies at an end and the turnouts ranging from satisfactory to excellent in the different activities, the future participants in that vast parade of games and pageants which are planned for the junior and senior years. To be sure,

the future participants in that vast parade of games and pageants which are planned for the junior and senior years.

Two football teams, both Freshmen and Sophomores, have scheduled their practices to help put them in shape for their coming match. The Sophomores are under way with their practices. A

The Sophomores are under way with their practices. A.

second match is now in the making and will be announced shortly.

The swimming picture looks pretty promising for the Sophomores. We recall their record last Field Day when they swamped their opponents. However, the Freshmen will have some surprises in store with the material left on hand.

Crew practice has gotten under way with both teams already having had a few workouts under their belts. They have already taken to the Charles in the 14-man barges used for the first few sessions. It will be a while before definite teams will be picked. It might be mentioned here that the coaches are on the lookout not only for men to

It might be mentioned here that the coaches are on the lookout not only for men to

play, but also for the material '55 has on hand.

Winning the Freshmen's squad travels to Hartford to meet Trinity College and on the following Saturday the Freshmen will again be away, this time to battle Amherst. Tufts will visit here on October 24, then Tech will be away on the 27th and 30th of October, respectively.

Two home contests, one against Middlebury and the other against the Tufts will visit here on October 24, then Tech will be away on the 27th and 30th of October, respectively.

(Continued on Page 4)

THE TECH

Beaver Soccer Gets Under Way; Schedule Includes 11 Contests

With a light October and November schedule coming up, Tech's soccer team is hard at work getting into shape to meet some powerful competition.

The opening game is at home with M.I.T. scheduled to play Brown University on Wednesday, October 20. On Saturday, October 23, the squad travels to Hartford to meet Trinity College and on the following Saturday the Beavers will again be away, this time to battle Amherst. Tufts will visit here on October 24, then Tech will be away on October 27 and 30th of October, respectively.

Two home contests, one against Middlebury and the other against Tufts.

(Continued on Page 4)

Tech's championship rifle team which last year swept the National Intercollegiate Rifle meet with a phenomenal new record of 1453 and placed three men on the All-American Rifle Team faces the new season with the loss of six of the ten men on the varsity. Two of the graduates, Mel Bower and Herb Voelker were all-Americans.

A sturdy nucleus of four of last year's varsity together with seven members of the Freshmen team will compose the new squad. Newly elected Capt. Al Tanner who incidentally was one of last year's All-Americans and Chris McCay, Arthur Auer, and Sarkis Zararian of the first team plus Krista Arumugam, Roy Ham, Charles Burhans, Jim Grove, from Canada, George Dornier, Curt Hirs- ch, on Icelander, Ed Heist, Phil Rann, Bob Reichard, Everett Tooley, and Carlos Roggera from Sweden will compose a tentative squad.

Rifle Rally

A rifle rally for all interested freshmen will be held some time during the first week in October, the exact time and place to be announced later. The first tryouts and practice sessions will take place in mid-October and informal meets with various teams in the Boston area will follow.

Through a definite schedule has not yet been established, the opening intercollegiate match will probably be in December. The Beaver team is to meet such powerful contenders as Harvard, Navy, Army and Maryland (from whom the Techmen wrested the National title last year) and some New York and Washington teams in a southern tour.

Though partially handicapped by the loss of valuable senior men, the team does have a good potential which should permit some exciting matches for the coming season.

Here's another instance where the Patronage Refund is very important

For Your Car!!

GASOLINE OIL WASHING GREASING

The COO wishes to emphasize the fact that members of the Technology Store may purchase gasoline and oil for their cars and obtain a Patronage Refund thereon. A Patronage Refund is also paid on the charges for washing and greasing. To the drivers of cars, this represents a saving that is well worth while and you are urged to visit this Authorized Tech Store Gas Station.

Technology Store Gas Station

218 MAIN STREET

AT KENDALL SQUARE ROTARY

Mobilgas

Patronage Refund to Members
Field Day (Continued from Page 3) participants in the Field Day event, but for men eligible for Freshman, heavy and light. Tracks is being handed entirely by Oscar Hedlund and, as for Track, the schedule turns has yet to be announced.

The assistant manager in charge of runs Field Day and has announced that three freshmen and two sophomores will be held in the few weeks preceding Field Day. The schedule for these rallies is as follows:

**Freshman rallies:**
- Tues., Oct. 9 5:00-6:00 p.m. - Room 12-250
- Fri., Oct. 12 5:00-6:00 p.m. - Room 12-100
- Tues., Oct. 16 5:00-6:00 p.m. - Room 12-410
- Fri., Oct. 19 5:00-6:00 p.m. - Room 6-210

**Sophomore rallies:**
- Tues., Oct. 16 5:00-6:00 p.m. - Room 10-250
- Fri., Oct. 19 5:00-6:00 p.m. - Room 6-210

Oscar Hedlund, track coach at M.I.T., will be on hand at the September 25 rally to speak about previous Field Days at the Institute. Representatives of the Class of 1954 will also attend to make a presentation to the freshmen class. This presentation is something worth seeing by every freshman at the Institute. It is guaranteed that this first rally will prove very interesting to the freshman.

**Edgerton**

(Continued from Page 1) able to see a picture at a few millions of a second exposure time, Dr. Edgerton has provided science with a powerful weapon in the fight against the mysteries of nature.

**Shock Waves Timed**

The shockwave, which in simple terms is a light flash on and off very quickly, is actually an old instrument. It had been undeveloped, however, until Dr. Edgerton became interested while a graduate student here at the Institute. Under his able guidance, the shockwave has grown to its present position of prestige. And with it have been developed many auxiliary and supplementary machines which aid in the study of light and sound sciences.

Dr. Edgerton, who is never satisfied with things as they are, is always looking for ways of improvement. He is now working on an electronic shutter which will outlaw every light streak.

**Roaming Apparatus**

In his three-room office and Laboratory, Dr. Edgerton carries on his experiments with the aid of three or four graduate students interested in his work. His well-stocked supply of apparatus is constantly being rotated among his fellow professors who borrow the instruments for their work. His lending library of apparatus is one of the busiest in the Institute, and complete records of all instruments are kept. For as Dr. Edgerton says, it is much better to have such instruments in use, than merely lying around the laboratory.

Soyip (Continued from Page 1) Connecticut on November 3 and continually being rotated among his experiments with the aid of the famous Institute of Archi-

**Connecticut on November 3 and continually being rotated among his experiments with the aid of the famous Institute of Archi-

Fullbright (Continued from Page 1) is one of approximately 750 grants, including 100 State Scholarships, for study abroad which are part of the Fullbright program for the academic year 1951-1952. As provided by the Act, all students are selected by the Board of Foreign Scholarships, the committee which appoints are selected by the President, Students are recommended by the campus Fullbright committees and by the Institute of International Education.

This latest announcement brings to ten the number of graduate students and alumni who have received United States Government Grants for study abroad in 1951-52 under the Fullbright Act. Five of these students are from New England, three are from greater Boston. The eight previous M.I.T. Fullbright appointments were:

1. Robert Dudley of Burrardale, Maine, to study medical physics at Hamnamar Hospital, the University of London, England.
2. Thomas P. McNulty of Cambridge, Mass., to study architecture at the Institute of Architecture, Venice, Italy.
3. James McKenna of Lebanon, New Hampshire, to study mathematics at the University of Edinburgh, Scotland.
5. Leroy N. Blumberg of Atlanta, Georgia, to study physics at the Technical College, Delphi, The Netherlands.
6. John Fox of Huntington, West Virginia, to study physics at the University of Groningen, The Netherlands.
7. Murray Sirkis of Washington, D. C., to study physics at City College, the University of Cambridge, England.
8. Christopher Walter of Collierville, Tennessee, to study physics at the University of Paris, France.

**The COOP**

Patronage Refund for the year ending June 30, 1952 is guaranteed at not less than 10% on cash purchases and 8% on charge - same rate as paid on purchases made during Fiscal Year ending June 30, 1951. Last year's Patronage Refund checks will be distributed at The Technology Store on October 15, 1951.

**The COOP**

Patronage Refunds are paid on purchases made in the Harvard Square Store by Tech Store members. Use your charge account card if desired.

**The TECH**

Tuesday, September 25, 1951

**NOTICES**

S.A.M.E. Meeting
Military engineering activities in Korea this past summer will be the subject of a film to be shown at the organizational meeting of the S.A.M.E. Student Branch of the Society of American Military Engineers. The meeting will be held today at 5:00 p.m. in Room 208-E-019. All members of the society and any advanced course ROTC students are invited.

Persisting Rifles Smoker
The National Honorary Society of Persisting Rifles will hold a smoker in Tyler Lounge, Walker Memorial, at 8 p.m. on September 25. All freshmen and sophomores interested in the society are invited. Refreshments will be served.

**T.C.A. Freshman Smoker**

Technology Christian Association will hold its annual freshman smoker this Thursday afternoon at 5:00 p.m. The smoker will be held in the S.L. office, Walker Memorial. Refreshments will be served.

**Catholic Club Meeting**

During the Freshman orientation period. Mr. Peterman, president of the Catholic Club, will meet with all members of the Catholic Club. The meeting will be open to all students and will be held at 5:00 p.m. in Room 2-190. The topic is "Loving God."