The Tech

OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LXII NO. 22 CAMBRIDGE, MASS., FRIDAY, MAY 2, 1952 5 CENTS

STUDENTS RUN 18TH OPEN HOUSE

epartments Join Celebration /ith Numerous Exhibitions

Between thirty and forty thousand people are expected to visit the Eighteenth Open House on May third. Most of these spectators are expected to be students from the secondary schools in the New England area, alumni, friends of students and faculty members, parents of students, and the public in general. Many of the fraternities are having Alumni Days to coincide with the Open House. In addition, other colleges in the area and many of the industries have been invited to send representatives. Admission for the day is free.

Over two hundred displays and exhibitions will be presented by the various departments and interdepartmental laboratories, and the student activities. Most of the classrooms and laboratories will be open to acquaint people with M.I.T. and the important place technology has in the society of today. In addition, there will be athletic contests in rugby, sailing, track, baseball, and lacrosse held at various times throughout the day.

In order to facilitate viewing several tours will be run during the day by student guides. Arrows will indicate the direction of these tours. Various living groups are maintaining information booths at strategic spots in the Institute to answer all questions and to reroute the lost.

Programs will be available to all visitors listing the location of all exhibits or displays and the times of any special events. These will

(Continued on Page 2)

Institute's departments have
ne themselves in helping to
this 18th Open House a suc-
Almost every department will
a movie as well as lectures
various entertaining exhibits.
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throughout this issue.
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One of the best will be a
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A General Physics lecture to
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the other side of the campus
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—a new loudspeaker that is a
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ratory of Nuclear Science and
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hics has prepared an inter-
exhibit on "photograph"

(Continued on Page 2)

OPEN HOUSE XVIII

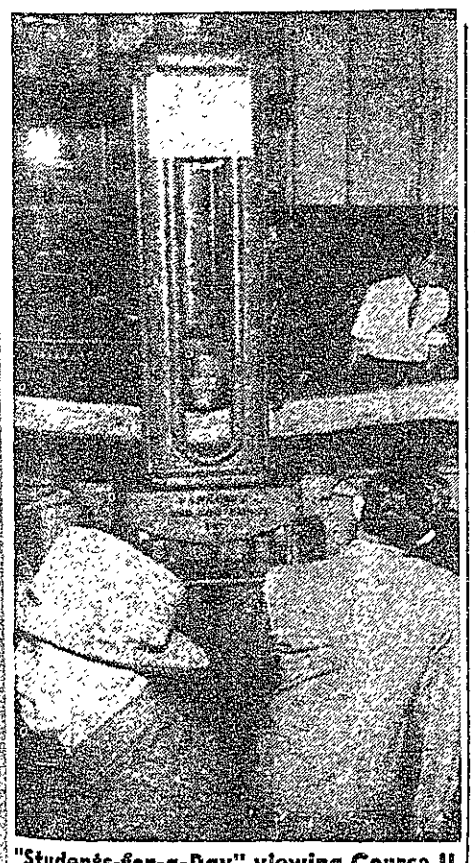
With more than casual attention to this particular periodic task, *The Tech* once again takes pleasure in representing the faculty and student body of Massachusetts Institute of Technology in welcoming its guests to this eighteenth Open House.

Some of the most revolutionary changes in the history of man—some already exercising far-reaching influence over the conduct of human affairs—are shown for the first time during this Open House. Enjoying a key position in scientific development, the Institute at this time submits its achievements to the inspection and judgment of the public.

Further, Technology exhibits today its educational facilities and the student body which studies here. Much of this Open House has been planned and executed by them, and a large portion of Open House commensurate with the interest of the Institute is devoted to students and their activities.

We welcome the visitor and call his attention to these two most important functions here at Technology.

Educational Facilities Impress Most Visitors



"Students-for-a-Day" viewing Course II exhibit

By JOE KOZOL

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Various laboratories were opened to display the mass of equipment the Institute possesses, the use of which facilitates experimental knowledge and research for the students.

Demonstrated lectures by Professor A. R. Davis on "Fire and Control of Fire" and by J. P. Benkard on "General Physics" proved very interesting to guests of Open House. The English and History exhibits provided refreshing detraction from the air of science surrounding the Institute. Games and Student Activities helped to demonstrate the fact that the Institute is not just one rolling machine.

Most of the guests of Open House were from the vicinity of Boston but many people made special trips to visit the Institute. The peak of the crowd came at about 3:00 p.m., but interested onlookers were still wandering around at 7:30 p.m. The long and interesting tours impressed all who visited the Institute.

Each sport had an exhibit at Rockwell Cage. Among the most interesting was that of the Pistol Team. The men on the team were able to demonstrate shooting without fear of bullets ricocheting. Intra-mural track trophies were also exhibited. The pitching machine provided a big attraction for young onlookers.

The R.O.T.C. provided another group of outstanding exhibits. Every conceivable type of weapon was displayed. Also exhibited were standard Army guns of the Civil War, The Spanish-American War, World War I and World War II. Walkie-talkies provided more entertainment for younger people. Among the other interesting pieces of equipment displayed was a Radio Direction Finder, which is able to give the direction of a station sending out radio signals. Among the smaller field pieces were the 57 millimeter recoilless rifle and the 50 caliber machine gun. The R.O.T.C. exhibit was quite informative to passers-by who knew little of weapons and military equipment.

The general consensus of opinion was that Open House was quite successful and that all those who visited the Institute were favorably impressed.

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Although the point score came out a tie, at 177½, Tech skippers placed their points to greater advantage. Harvard had the two highest scorers, but Almquist, Buckland and Rieman provided the depth that proved too much for Harvard.

Next day, Tech, sailing on the Seekonk at the Brown University Yacht Club for the Sharpe Trophy, dumped Harvard into fifth place, but Coast Guard managed to eke out a one-point victory over the Tech squad which finished second. During the regatta, one of the most highly contested of the year, M.I.T., Harvard, Coast Guard, Brown and Dartmouth held the lead at one time or another. Melaika and Michelove, sailing in A division, scored 37 points with Buckland and deBerc taking top honors in B division with 42 points. Final scores gave:

Coast Guard	80
M.I.T.	79
Dartmouth	79
Brown	77
Harvard	75
Princeton	62
Yale	35

Tech

SETTS INSTITUTE OF TECHNOLOGY

ASS., TUESDAY, MAY 6, 1952

edlyBoost In Recent dly Watch

By JOHN D'AMICO

Chemical and hydro warfare, plus a bonfire and acetylene cannon were used to spark the East Campus mock May Day riot; Pogo enthusiasts paraded "Pogo For President" banners as Cambridge police, somehow informed, waited quietly on Memorial Drive in anticipation of further action which never developed. Beginning about 9 p.m. on Thursday, the riot was completely disbanded at 11:30.

Spectators and participants unanimously agreed that the spark never took fire, and termed affair complete fizzle.

A small group of Technology students and musicians appeared on the scene during the proceedings in an attempt to provide a mock communist appearance to the rally. The group, led by a student in a red cape, played the communist "Internationale" to the delight of the Boston newspaper reporters who seemed to have overemphasized greatly the part played by these jokers in the over-all affair.

During the two-day period preceding the rally, rumors advertising it ran wildly throughout the entire dormitory system and reached across the river to the fraternity men, some of whom were present to witness the proceedings.

Preceding the 9 o'clock explosion hour, dormitory residents sharpened their aim by hurling waterbombs from their windows onto passers-by below. When a bonfire was finally built just shortly after nine, residents quickly sought to douse it with water, but with the addition of more wood the fire eventually got its start. Very few residents left their rooms but chose instead to participate by hurling water-filled balloons onto the daring few in the quadrangle. Support by student amplifying systems was hardly as pronounced as it was during the last melee held a short time ago, but it nevertheless added to the barrage of noise.

Dormitory Manager R. R. Masterson watched quietly from the steps of Walker Memorial, quite unconcerned by the proceedings. He commented that the riot was "tame compared to those a few years back" and was sure that no real damage would be done.

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"Pogo for President" boosters at not-too-successful May 1 "riot"

NOTICE

Air Force Talk

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Dean's List

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The seniors had 6.5% of its 867 students with first and 32% with second honors. Thus it more than doubled the percent of other classes receiving second honors and had 38.5% of its numbers winning honors, 17.5% above any other class.

Science Fair

(Continued from Page 1)

and was followed by Robert M. Oliver '52, Chairman of M.I.T. Open House, who extended an invitation to attend Open House to all who were interested. Dr. George R. Harrison, Dean of the School of Science, the main speaker, encouraged and praised the exhibitors for their efforts and interest which made the fair a success.

Baseball

(Continued from Page 3)

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Cliff Rounds, senior righthander from Detroit, started on the hill for the Techmen, the wet ball and chill in the air affected all the pitching, and Rounds was no exception, yielding 7 of the Bates' runs before being relieved by Sophomore Ted Slosek, who pitched splendidly, after an early battle to gain control of the moist spheroid.

In the 5th, down 8-0, the Engineers reached Berquist, Bates' starter, for 2 hits and 4 runs. Erratic base running proved costly here, snuffing out a promising rally. However, in the next frame, the Merrittmen again went to work, with Thompson doubling home two big tallies, and Bill Henderson stealing home with the tying run in a hectic dash and slide into the slime at home plate.

WELCOME FROM PRES. KILLIAN

OFFICE OF THE PRESIDENT

Open House
May 3, 1952

To All Open House Guests:

On behalf of the administration, I welcome you to M.I.T. The students plan this day for your enjoyment, and I know from previous years that they can be counted on to have provided a wide variety of interesting exhibits and demonstrations. This is the eighteenth year that students at the Institute have planned such an occasion. It has proved to be one of the most delightful of our annual events.

I would like to pay tribute to the students who have made this day possible. Our students have a proud tradition of taking initiative and responsibility for enriching our college program and making it more effective. It is interesting that as long ago as 1921, M.I.T. students sponsored the first intercollegiate conference on student government and undergraduate life ever held in America. At that time it was reported that of the forty colleges represented at the conference, "Technology proved to be further developed in the line of student control of the undergraduate affairs and policies than any other institution." During subsequent years our students have continued to carry an unusually large amount of responsibility for campus affairs, including such an undertaking as this Open House.

I hope that you enjoy your visit to M.I.T. and that you will want to come again.

Yours sincerely,
J. R. Killian, Jr.
President

Departments

(Continued from Page 1)

views.

The meteorological department has an exhibit on forecasting the weather by student forecasters. The Department of Chemical Engineering has a promising exhibit on the chemistry of rocket flight. A challenging view into aeronautics is featured at the Department of Aeronautical Engineering.

One of the best exhibits of the day will be the launching of a ship (model of course) by the Department of Naval Architecture.

Metallurgy

This year Open House in Metallurgy Department is centered around the following branches of Metallurgy: physical metallurgy, ceramics, corrosion, process metallurgy and X-ray metallurgy.

The heat treatment of steel by quenching and tempering;

the phenomenon of recolescence, which is exhibited by steel when cooling through a phase change;

the preparation of metal samples for metallographic examination by grinding and polishing.

Building Construction

This department is to have two rooms with exhibits pertaining to Building Construction; one with displays of materials and methods pertaining primarily to heavy construction, and one devoted to light housing construction. Many of the large companies in the building industry are supplying interesting exhibits on new materials of construction.

Open House

(Continued from Page 1)

include a map of the Institute for those unfamiliar with the building numbering system. Further details on many of the exhibits can be found on pages two and three of this issue.

All activities for the day will begin at twelve noon and will end at seven p.m.

Indian Ambassador Guest At Institute

His Excellency B. R. Sen, India newly appointed ambassador to the United States, visited the Institute on Tuesday afternoon, April 2. Accompanying him were his wife and Professor Sundaram of the Embassy's Education Department. He was a luncheon guest of some members of the faculty.

Later on in the Library Lounge he answered several questions about India with respect to the international and domestic fields. He clarified India's policy in reference to Japan and China, going on to answer questions relating to the development of Indian industry especially in regard to the flow of foreign capital.

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ACTIVITIES EXHIBITS

Athletic Association .....
.....Rockwell Cage
Sports .....Briggs Field
Association of Women Students—
Open house to guests .....
...Margaret Cheney Room: 3-306
Catholic Club, Christian Science
Org., Hillel Foundation, Inter-
varsity Christian Fellowship ..
Faculty Lounge, Walker Memorial
Debating Society—Panel Discussion
"Technical vs. Liberal Arts Edu-
cation" .....1-190, 4:00 p.m.
Elections Committee—Student
Government display .....Litch-
field Lounge, Walker Memorial
Electric Railroads Association—
Exhibits, transit equipment ..
..... 2-229
Model Railroads Association —
Small table exhibit 2-229
Main exhibit 20E-216
Nine-Fifteen Club .....
.....Open house to guests
Flying Club—Private Plane ....
.....Briggs Field
Glider Club—Gliders and equip-
ment .....Briggs Field
Hobby Shop 2-051
International Association .....
Tyler Lounge, Walker Memorial
M.I.T. Symphony ..10-250, 12 noon
Music Clubs—display of instru-
ments; record playing; singing
by Logarhythms .....
..... Junction Bldgs. 2, 4, & 6
Concert Band .....
.....Great Court, 2:30 p.m.
Model Aircrafters — Exhibit of
various flying models .....
.....Walker Memorial Gym
Motor Sports Enthusiasts Club—
Sports car .....
Parking lot between Bldgs. 10
.....& 31
National Students Association ..
Tyler Lounge, Walker Memorial
Nautical Association—tours .....
.....Sailing Pavillion
Outing Club — Exhibition of
camping equipment and tech-
niques .....
....Lawn, between Bldgs. 6 & 14
Public Relations Committee ....
.....Litchfield Lounge
Radio Society—will send guests'
messages to amateur stations
throughout the world .....
.....Terrace of Bldg. 14
Rocket Research Society—movies
and demonstrations 10-275
Tech Show—numbers by Tech
Show stars, 1 p.m., 3 p.m., 5 p.m.
..... 2-190
T.C.A.—Main Exhibit .....
.....2nd floor, Walker Memorial
Boys' Work Exhibit 2-235
Tech Engineering News—display
of recent issues ..Lobby, Bldg. 10
THE TECH—Pictures and layout
material showing the make-up
of THE TECH ....Lobby, Bldg. 10
Voo Doo .....
....Lawn between Bldgs. 6 & 14
WMIT—broadcasting system ....
....Dining Hall, Walker Memorial
Other activities will work on ex-
hibits in conjunction with their as-
sociated departments.

Free Airplane Rides for Open House

The M.I.T. Flying Club has announced that it is sponsoring free plane rides during the hours of Open House. Anyone related to the M.I.T. family may sign up for this free flight. The plane ride at the airplane that will be on display in Briggs Field Saturday. The Flying Club suggests that those interested, sign up early to avoid being disappointed.

Chemistry

Chemistry Dep't.

A lecture on "Fire and the Control of Fire" will be given by Professor Arthur R. Davis of the Chemistry Department in Huntington Hall (10-250) at 2:00 and 4:30 p.m. The discussion will be illustrated by a number of spectacular demonstrations which show how fires start and how they can be extinguished.

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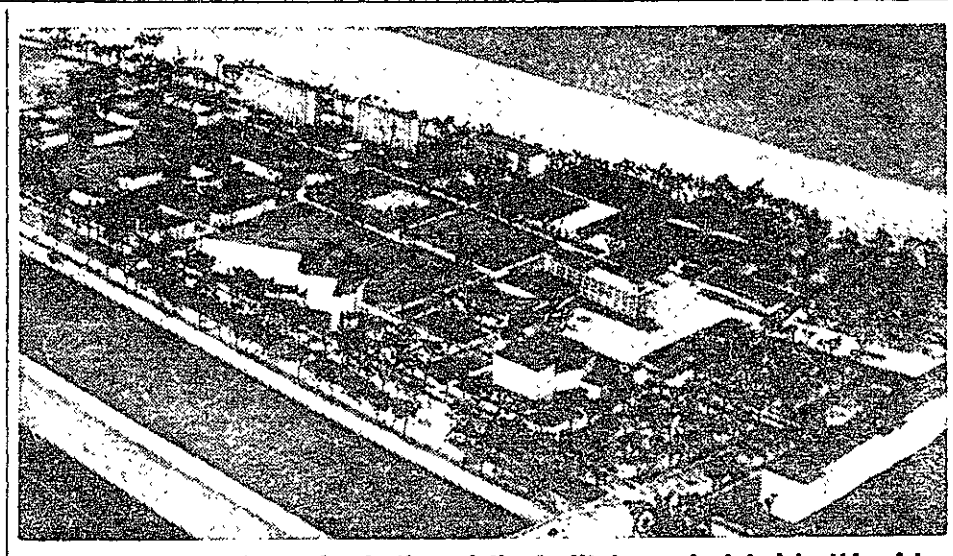


Present plans for the modernization of the Institute as depicted in this vision of a new West Campus extend the tradition of improvement of Technology's facilities.

Institute Shows Rapid Growth During Past Quarter Century

When the School of Industrial Management and the Department of Economics and Social Science were recently moved to the newly-purchased Sloan Building, it marked the first time since the moving of the Institute to Cambridge in 1916 that any department headquarters were outside the main educational area. W. Welles Bosworth originally designed the Institute so that all the departments could be housed under one roof, a revolutionary idea at that time. Room was provided for expansion; wings could be added or additions could be made to the rear.

The first construction of the buildings in 1916 included only Buildings 1, 2, 3, 4, 8, 10, Walker Memorial, and the President's House. In the expansion that took place during 1925-26, most of the buildings on Vassar Street, the Old Senior House and the Old Dorms (now known as East Campus), the Boat House, the Rifle Range, and Building 5 were built. However, the total amount of square feet area of the buildings at that time was only one-third of the square feet area of buildings built or acquired since then.

In the next ten years, Buildings 11, 33, 31, and 6 were added to the buildings, the last being one of the largest wings added to the buildings.

When the Sailing Pavilion was added in 1937 the total area devoted to recreational purposes had increased to 112,000 square feet. Since that time the building of the Briggs Field House, the Swimming Pool, and the Rockwell have added 70,000 square feet to that total.

The greatest period of expansion has occurred from 1937 to the present. Buildings 7, 24, 22, and 20, Westgate, Westgate West, Eastgate, Baker House, the Hayden Library, the Hydrodynamics Laboratory, Twelve-MEV Generator, Super-

(Continued on Page 7)

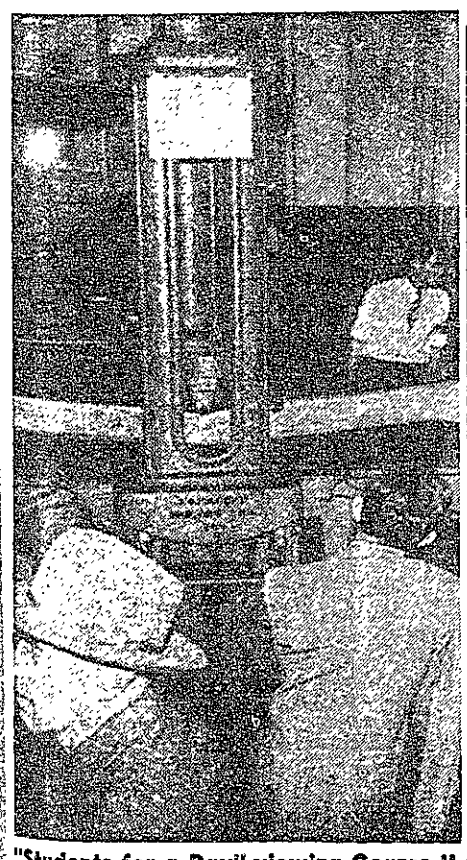
New Draft Exam

General Lewis B. Hershey has arranged for a Selective Service College Qualification Test to be held on May 22, 1952, "because there were some students who, for reasons beyond their control, were unable to take the test" on a prior date.

Students who have reached their eighteenth birthday between the dates of March 1st and April 10th should take advantage of this examination, as well as those students who have failed for any reason to do so up to this time.

When filling in the application, available at all Selective Service local boards, the student should cross out "April 24" opposite the space reading "Center No." and write in "May 22." Clerks have been instructed to help students in preparation of Application Cards, as no special cards have been issued for this test.

Educational Facilities Impress Most Visitors



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VOL. LXXII FRIDAY, MAY 2, 1952 NO. 22

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Editorials

GOODBYE — OR "AU REVOIR"

Little over a month ago, the body of Tech's-a-poppin' was officially declared dead, and was buried without ceremony.

However bad student apathy seems at present, the Athletic Association's decision to disband Tech's-a-poppin' as a recognized function of the A.A. was not entirely justified.

Tech's-a-poppin' had the makings of a fine tradition. The week-end was a great success when first started in 1949. It was no less successful the following year. In 1951 and this year it was less prosperous but then no event can be a success all the time.

The A.A. based its decision on the fact that although Tech's-a-poppin' was designed to be an athletic event just as much as a social affair, it was mainly the social part of it that helped it along; and in view of this, the A.A. saw no reason why it should continue sponsoring it.

There is much logic in this attitude. We believe, nonetheless, that such events have their ups and downs, and that the Athletic Association was mistaken in not recognizing this. Also the A.A. should not have been discouraged by a less successful 1952 Tech's-a-poppin' at a time when the performance of several of our athletic teams was at a low ebb.

The aims of Tech's-a-poppin' are both to stimulate and to give expression to interest in Institute athletics, and to combine this with entertainment in the form of a dance and a carnival.

Since the A.A. as a sole sponsor has thought it best to discontinue Tech's-a-poppin', we believe it is the duty of some other activity or body to take over and see to it that these aims are attained.

We feel that the most appropriate form would be a subcommittee of Instcomm. Its members should include the Presidents of the 5:15 Club, Dormcomm, the IFC and the

(Continued on Page 10)

INVITATION BY STU-FAC COMMITTEE

The Student-Faculty Committee extends an invitation to all men in charge of Open House exhibits to come to the Committee's lounge in Room 2-290 between 1:00 p.m. and 5:00 p.m. on Saturday. Refreshments will be served.

Tech At The Pops Saturday May 3rd

This year Tech's barbershop octet, the "Logarhythms," will appear for the first time on the "Pops" program on Sunday evening, May 4. Tickets are still on sale in the Lobby of Building 10. A special sale will be held during Open House, Saturday, May 3, at the Musical Clubs exhibit in Building 2.

Program for Tech Night at the "Pops" follows:

"Washington Post" March ..... Sousa
Overture to "La Gazza Ladra" .. Rossini
Fantasia on "Greensleeves" Vaughan Williams
Symphonic Poem, "Finlandia" ... Sibelius
Concerto in E-flat for Piano and Orchestra ..... Liszt
Soloist: EUGENE LIST
Roumanian Rhapsody No. 1 ..... Enesco
Selection from "The King and I" . Rodgers
Hello, Young Lovers—March of the Siamese Children—Getting to Know You—We Kiss in a Shadow—Shall We Dance
a. Ranch House Party ..... Gillis
b. Blue Tango ..... Anderson
Farandole from "L'Arlesienne" .... Bizet

The program will broadcast over Station WGBH.

Plans For Freshmen Counsels Approved By Dorm. Committee

A new system of freshmen counselling originated by the Freshman Coordinating Committee was approved by Dormitory Committee in its meeting on Monday in Crafts Lounge. Motions concerning the social committee and student management of the dormitories were also discussed.

Frederick Zwerling, '53, introduced the motion that Dormcomm set up a committee to investigate the possibility of economies afforded by student management. The committee then approved of the motion that all discussion on this was off the record.

The new plan for freshmen counselling as presented by the Freshman Coordinating Committee was approved. The plan is that there will be one student counsellor for every 10 freshmen and one faculty advisor for every two counsellors. This plan will still have to be approved by the faculty. It will be brought up to the faculty some time in the middle of this month.

Social calendar of Dormcomm announced is: October 10—Fall Acquaintance Dance; December 12—1952 Christmas Formal; February 13—Spring Acquaintance Dance; April 24 — Dormitory Week-end. This calendar is only tentative and is subject to change.

Second was a change in the by-laws that changes the social committee to include the house so-

(Continued on Page 7)

MODERN HOUSES IN A COMMUNITY DESIGNED FOR FAMILY LIVING

A new Model House designed by The Architects Collaborative and completely furnished for inspection.

Furnishings by The Architects Collaborative Interiors, Hans Knoll Inc., Gilbert-Estabrook Inc.

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For further information contact:

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rackmen Face ufts At Home

The Technology varsity track eam will open its home outdoor eason tomorrow afternoon against he defending New England Champions, Tufts College, at Briggs Field t 2 p.m. Both the Beavers and ufts bowed to Bowdoin College in eir season openers, so that both ill be after their first victory tomorrow.

The Jumbos who had a two-year inning streak broken at Bowdoin st week-end will be on the reound and attempting to extend eir winning streak over the Techmen to three years in a row. Alough Ed Yeager's team lost a pair great weightmen last June with e graduation of Tom Bane and ob Backus, they still boast a strong uad, built around Bob Jones, who most single-handedly brought e Jumbos their New England title st year.

Jones Major Threat

Jones may compete in as many as x events, including both dashes, e low hurdles, the broad and high mps, and the quarter-mile. In ddition to Jones, the Jumbos have o of the best hurdlers in New ngland in Jack Goldberg, book vorite to win the high hurdles, d Andy Howitt, and one of the p contenders' for New England nors in the pole vault in Bob illiamson. Of the Tufts runners, ly Paul Farina, miler Tom Hearn, and two-miler Joe Greicci e likely to cut into the Beavers' re.

Beaver chances to win the meet ge on two things, their ability pile up a big lead in the middle ance running events and the lity of the Tech weightmen to t up on their opponents in the t put, weight and hammer. Led ndoor mile record holder Chuck ers, the Engineers should sweep mile and may do the same in quarter, half and two-mile.

Jumbos Strong In Hurdles

e Jumbos should pick up most he points in the javelin, hurjumps, and pole vault, but the t events and the other weight ts should be split fairly evenly

(Continued on Page 7)

ATE SPORTS FLASH!!

h Beat Tufts in Lacrosse 11-9
ity Succumb to Harvard 10-5

Tech Sailors Place Second In Eastern Dinghy Races

The Tech sailing team rose from a fifth place spot after Saturday's races to finish runner-up in the twelfth annual Eastern Dinghy Championship for the George Owen Trophy this past week-end. The Harvard team, taking the lead after the second race, remained on top to score the first victory for the Crimson since 1944. Previously undefeated Navy ended up third, followed by Coast Guard, Brown, Princeton, Dartmouth, Williams, Cornell, Yale and Army.

A combination of light air and rain persisted during both days making it slow going for the two eleven-boat divisions. The winner's lead was never challenged so that the excitement of the regatta centered around Tech's climb to second place over a strong Navy team which held the home team at bay until the last race.

Kerwin Second

Sailing in A division for Tech was Jake Kerwin with crew Bibi Margulies, who finished second behind high-point skipper Jim Nathanson of the Crimson. In B division, skipper Pete Felsenthal and crew Adam Bincer finished fourth behind Harvard's John Bishop. Navy took the division honors followed by Brown.

Tufts Wins Frosh Race

Ted Garcia, Tech ace freshman dinghy man, was upset in the New England Individual Freshman Championship held at Brown last week-end by a steady scoring combination from Tufts.

On Saturday, Garcia with crew Alain deBerc qualified for the finals by winning four straight elimination races. These races narrowed the field of 16 contestants down to ten for the finals on Sunday. Boston College took an early morning lead, but were overtaken by Garcia in the fourth race. By afternoon Tech had built up a nine-point lead over second running Tufts, skippered by Judy Webb, Long Island Sound Woman's Champion. In the eighth race came the downfall as Garcia was caught on the port tack, by a starboard tack boat, and promptly withdrew, leaving a one-point margin going into the ninth race of ten. The lead was held until the last race, which Tufts won, pulling out a one-point victory.

Bad Sailing Conditions

The Seekonk river offered only fair sailing conditions as Tufts won with 83 points followed by Tech 82, Boston College 80, Univ. of Rhode Island 73, Harvard 72, Northeastern 49, Amherst 40, Brown 36, and Trinity 33. Colby did not finish.

At New London on the same day John Rieman and Ed Melaika of Tech took 50 and 34 points respectively to finish runner-up behind Tufts in a seven school meet held at the Coast Guard Academy. Behind Tech were Coast Guard, Harvard, Boston College, Babson, and Holy Cross.

COMING EVENTS IN THE SPORTING WORLD

	BASEBALL	
May Fri.	2	Bowdoin (V)
Sat.	3	Colby (V)
Sat.	3	Tufts (F) 2:00 p.m.
	CREW	
May Sat.	3	Harvard, Princeton, vs. heavies, at Princeton (V., J.V., F.) Harvard vs. J.V. lights Tabor Academy vs. 3rd boat
	GOLF	
May Fri.	2	Bowdoin, 2:00 p.m.
Sat.	3	Colby, 1:30 p.m.
	LACROSSE	
May Sat.	3	New Hampshire (V), 3:00 p.m.
Sat.	3	Gov. Dummer (F), 2:30 p.m.
	SAILING	
May Sat.	3	Harvard vs. M.I.T.
Sun.	4	Sharpe Trophy at Brown
Sun.	4	Hexagonal at Dartmouth
	TENNIS	
May Fri.	2	Bowdoin (V), 3:30 p.m.
Fri.	2	Babson (F), 3:00 p.m.
Sat.	3	Colby (V), 1:30 p.m.
	TRACK	
May Sat	3	Tufts (V & F), 2:00 p.m.

Westgale Delts Win; Clinch League Titles

By BOB EHLERT

Westgate rolled over VI-A to wrap up the softball title in league six, and Phi Delta Theta also took their fourth straight game by a comfortable margin over Phi Sigma Kappa, and so won the league eight championship.

Eight other teams have managed to remain undefeated throughout the Boston monsoon season. Two of the strongest, Kappa Sigma (3-0) and East Campus (2-0) will meet soon for the league nine title. Both SAE and Grad House I have won three straight and should have little trouble in their leagues.

The Huskies (2-0) and Sigma Nu (2-1) lock horns this afternoon at 5:00 p.m. and one should win a playoff berth. Alpha Tau Omega has disposed of its more formidable rivals in winning two straight. Theta Delta Chi (2-0) and the Walker Staff (1-0) meet Sunday and the former is favored to win in league seven.

Only in league two has every team met defeat. There Alpha Epsilon Pi nosed out Pi Lambda Phi, but then forfeited a game, and if the latter wins against Sigma Alpha Mu, there will be a tie.

SCORES

League II

Phi Kappa Sigma	WF	AEPi	LF
AEPi	WF	Delta Upsilon	LF

League III

Latin American	WF	Theta Xi	LF

League IV

Delta Tau Delta	14	Theta Chi	3

League V

SAE	12	Meteorology	3

League VI

Burton Stu. St.	17	Chi Phi	14
Westgate	21	VI-A	7

League VIII

Phi Delta—Theta	13	Phi Sigma Kappa	0

League IX

Kappa Sigma	23	Sig Ep	15
East Campus	12	Sig Ep	10

MIT Sweeps Colby In Tennis Match

The Badminton and Tennis Club, Boston, was the sight of the fourth varsity tennis match of this season on Saturday, April 25. The matches, which were played indoors due to rain, saw the home team defeat Colby College by the score of 5-0.

In the first match, Gil Mar of Tech defeated Lavin of Colby 7-5, 6-2. Mar's powerful strokes and steady court play proved too much for Lavin who played hard but fruitlessly. In the number two slot, Walt Beckett of M.I.T. outlasted Gordon of Colby in a sustained contest which was decided by 10-8, 6-2 scores. Then John Melavas, the Beaver's mechanical marvel, swept past Lowrey of Colby 6-0, 6-2. Lowrey couldn't manage to cope with the blistering service and tremendous stroking by Melavas which have established him as one of the foremost Beavers of the future. In the final singles match, Crosby of Colby succumbed to the fine stroking of M.I.T.'s Al Reynolds, 6-1, 2-6, 6-3.

The only doubles match of the abbreviated program was played between Ricardo Haegler and Howie Brody of the Engineers and Colby's Resler and Ulman. Tech's duo won 6-1, 6-1, to complete the 5 match conquest.

Educational Facilities Impress Most Visitors

udents-for-a-Day" viewing Course II exhibit

By JOE KOZOL

is estimated that twenty-five usand people visited the Insti- when it opened its doors for eighteenth Open House on May third. Two hundred guides were present to conduct visitors to the exhibitions presented by the departments and student activities which combined to present to the outsider a glimpse of the Institute and of the life that is built around it.

Various laboratories were opened to display the mass of equipment the Institute possesses, the use of which facilitates experimental knowledge and research for the students.

Demonstrated lectures by Professor A. R. Davis on "Fire and Control of Fire" and by J. P. Benkard on "General Physics" proved very interesting to guests of Open House. The English and History exhibits provided refreshing detraction from the air of science surrounding the Institute. Games and Student Activities helped to demonstrate the fact that the Institute is not just one rolling machine.

Most of the guests of Open House were from the vicinity of Boston but many people made special trips to visit the Institute. The peak of the crowd came at about 3:00 p.m., but interested onlookers were still wandering around at 7:30 p.m. The long and interesting tours impressed all who visited the Institute.

Each sport had an exhibit at Rockwell Cage. Among the most interesting was that of the Pistol Team. The men on the team were able to demonstrate shooting without fear of bullets ricocheting. Intra-mural track trophies were also exhibited. The pitching machine provided a big attraction for young onlookers.

The R.O.T.C. provided another group of outstanding exhibits. Every conceivable type of weapon was displayed. Also exhibited were standard Army guns of the Civil War, The Spanish-American War, World War I and World War II. Walkie-talkies provided more entertainment for younger people. Among the other interesting pieces of equipment displayed was a Radio Direction Finder, which is able to give the direction of a station sending out radio signals. Among the smaller field pieces were the 57 millimeter recoilless rifle and the 50 caliber machine gun. The R.O.T.C. exhibit was quite informative to passers-by who knew little of weapons and military equipment.

The general consensus of opinion was that Open House was quite successful and that all those who visited the Institute were favorably impressed.

to 38. In the final race, Kerwin, Melaika and Felsenthal teamed together to give Harvard a good thumping, 50¼ to 40.

Although the point score came out a tie, at 177½, Tech skippers placed their points to greater advantage. Harvard had the two highest scorers, but Almquist, Buckland and Rieman provided the depth that proved too much for Harvard.

Next day, Tech, sailing on the Seekonk at the Brown University Yacht Club for the Sharpe Trophy, dumped Harvard into fifth place, but Coast Guard managed to eke out a one-point victory over the Tech squad which finished second. During the regatta, one of the most highly contested of the year, M.I.T., Harvard, Coast Guard, Brown and Dartmouth held the lead at one time or another. Melaika and Michelove, sailing in A division, scored 37 points with Buckland and deBerc taking top honors in B division with 42 points. Final scores gave:

Coast Guard	80
M.I.T.	79
Dartmouth	79
Brown	77
Harvard	75
Princeton	62
Yale	35

'ech

SETTS INSTITUTE OF TECHNOLOGY

ASS., TUESDAY, MAY 6, 1952

edlyBoost In Recent dly Watch

By JOHN D'AMICO

Chemical and hydro.warfare, plus a bonfire and acetylene cannon were used to spark the East Campus mock May Day riot; Pogo enthusiasts paraded "Pogo For President" banners as Cambridge police, somehow informed, waited quietly on Memorial Drive in anticipation of further action which never developed. Beginning about 9 p.m. on Thursday, the riot was completely disbanded at 11:30.

Spectators and participants unanimously agreed that the spark never took fire, and termed affair complete fizzle.

A small group of Technology students and musicians appeared on the scene during the proceedings in an attempt to provide a mock communist appearance to the rally. The group, led by a student in a red cape, played the communist "Internationale" to the delight of the Boston newspaper reporters who seemed to have overemphasized greatly the part played by these jokers in the over-all affair.

During the two-day period preceding the rally, rumors advertising it ran wildly throughout the entire dormitory system and reached across the river to the fraternity men, some of whom were present to witness the proceedings.

Preceding the 9 o'clock explosion hour, dormitory residents sharpened their aim by hurling waterbombs from their windows onto passers-by below. When a bonfire was finally built just shortly after nine, residents quickly sought to douse it with water, but with the addition of more wood the fire eventually got its start. Very few residents left their rooms but chose instead to participate by hurling water-filled balloons onto the daring few in the quadrangle. Support by student amplifying systems was hardly as pronounced as it was during the last melee held a short time ago, but it nevertheless added to the barrage of noise.

Dormitory Manager R. R. Masterson watched quietly from the steps of Walker Memorial, quite unconcerned by the proceedings. He commented that the riot was "tame compared to those a few years back" and was sure that no real damage would be done.

Pogo enthusiasts arrived shortly after the bonfire was built and pa-

(Continued on Page 2)

"Pogo for President" boosters at not-too-successful May 1 "riot"

NOTICE

Air Force Talk

Major Robert P. Lent of Headquarters, U.S.A.F., will lecture in Room 4-270 Wednesday, May 7, at 8:00 a.m. on technical careers in the Air Force. His talk will center on what AFROTC Cadets may expect upon entering active duty in the way of job assignment and future requirements. All those interested are invited.

Dean's List

(Continued from Page 1)

sophomore, and junior classes gives 21% of each class receiving honors.

The seniors had 6.5% of its 867 students with first and 32% with second honors. Thus it more than doubled the percent of other classes receiving second honors and had 38.5% of its numbers winning honors, 17.5% above any other class.

Science Fair

(Continued from Page 1)

and was followed by Robert M. Oliver '52, Chairman of M.I.T. Open House, who extended an invitation to attend Open House to all who were interested. Dr. George R. Harrison, Dean of the School of Science, the main speaker, encouraged and praised the exhibitors for their efforts and interest which made the fair a success.

Baseball

(Continued from Page 3)

On Saturday, the never-say-die Tech baseball team rallied strongly, with 4 runs in each of the 5th and 6th innings, to overcome an early 8-0 Bates' lead, and emerged with its second stalemate of the season, in a game marred by inconsistent pitching, and eccentric umpiring. The game, played in a steady drizzle with first and third bases a quagmire, was an exciting one for the few who braved the elements.

Cliff Rounds, senior righthander from Detroit, started on the hill for the Techmen, the wet ball and chill in the air affected all the pitching, and Rounds was no exception, yielding 7 of the Bates' runs before being relieved by Sophomore Ted Slosek, who pitched splendidly, after an early battle to gain control of the moist spheroid.

In the 5th, down 8-0, the Engineers reached Berquist, Bates' starter, for 2 hits and 4 runs. Erratic base running proved costly here, snuffing out a promising rally. However, in the next frame, the Merrittmen again went to work, with Thompson doubling home two big tallies, and Bill Henderson stealing home with the tying run in a hectic dash and slide into the slime at home plate.

"He *is* rather nearsighted — but he never forgets the Angostura* in a Manhattan!"

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WE ASKED GRADUATES TEN YEARS OUT OF COLLEGE:

WHAT WOULD YOU SUGGEST TO MEN NOW PLANNING THEIR CAREERS?

This advertisement is another in a series written by G-E employees who graduated ten years ago—long enough to have gained perspective, but not too long to have forgotten the details of their coming with the Company. These graduates were sent a questionnaire which they returned unsigned. The quotes below represent only a sample of the suggestions received. For a free, mimeographed copy of the full list of comments, write to Dept. 221C-6, Schenectady, N. Y.

"The advice should go back to the sophomore level and it would be to take as many fundamental engineering courses as possible instead of specializing in one field during junior and senior years. The specialization will come as a matter of course due to participation in a phase of engineering occupation after graduation."

"Obtain working experience in all the jobs you think you know nothing about and avoid your primary interest the first year out of college. Ignore geographic location when selecting a job. Even Schenectady is an enjoyable place to live when you've been there long enough to know how to appreciate it. Respect and admire your boss or change bosses."

"Too many of today's graduates are hypnotized by the glamor fields of rockets, jets, etc., whereas they are overlooking good opportunities in the old standard lines."

"Come with G.E., take advantage of opportunity to find field of most interest and possible reward. Don't jump to any foregone conclusions, and don't hurry to find a 'permanent' job."

"This is for freshmen . . . Go to a school that will give you an excellent background in fundamentals of physics, math, mechanics, and materials. Spend at least 25 to 30% of your time in the study of humanities. Forget about machine shop and drawing courses and practical application. Get your practical experience eventually from a company. In a few years you will be worth 10 times more to them and yourself than the so-called practical student."

"Be thoroughly grounded in engineering fundamentals. Experiment in your likes and dislikes by trying several jobs. Work for a company that helps you do this."

"I think the General Electric Test Engineering Program is the ideal employment for the graduate engineer. He should spend the full time on Test with many assignments to obtain the background that will be of utmost value to him."

"Don't specialize too much. Get your fill of math, physics, and so-called liberal arts."

"Don't be afraid to change either training or vocation if you find you don't like it."

"Get a line of work in which you are sincerely interested; it should be a pleasure to get up and go to work in the morning."

"It is a rare thing, one to be cherished as a golden opportunity, to be able to move around on rotation, look over the best facilities and opportunities of a company and thereby be able to make a much more considered choice of where, finally, to work. These things are all possible on the G-E Test Course."

"The most pleasant life seems to be in the sales end of the business. This is what I would tell the college men to strive for if he is fitted for sales work."

"If you don't find your work interesting after five years or rewarded with responsibility and money after 10 years—quit."

"I have worked with hundreds of young fellows since I was on the Test program. Only a few of them knew exactly what they wanted a year or even two years after graduation. One advantage of working with a large company is that it gives them an opportunity to observe a broad field of activities—everything from betatrons to garbage disposers—locomotives to guided missiles. The most important thing in selecting a job is choosing one that will keep the individuals happy, contented and satisfied."

"Get with the company that offers the best training program—the longer the better."

"G-E Test is the best way to spend first 2 years after school—particularly if the graduate is undecided as to his field."

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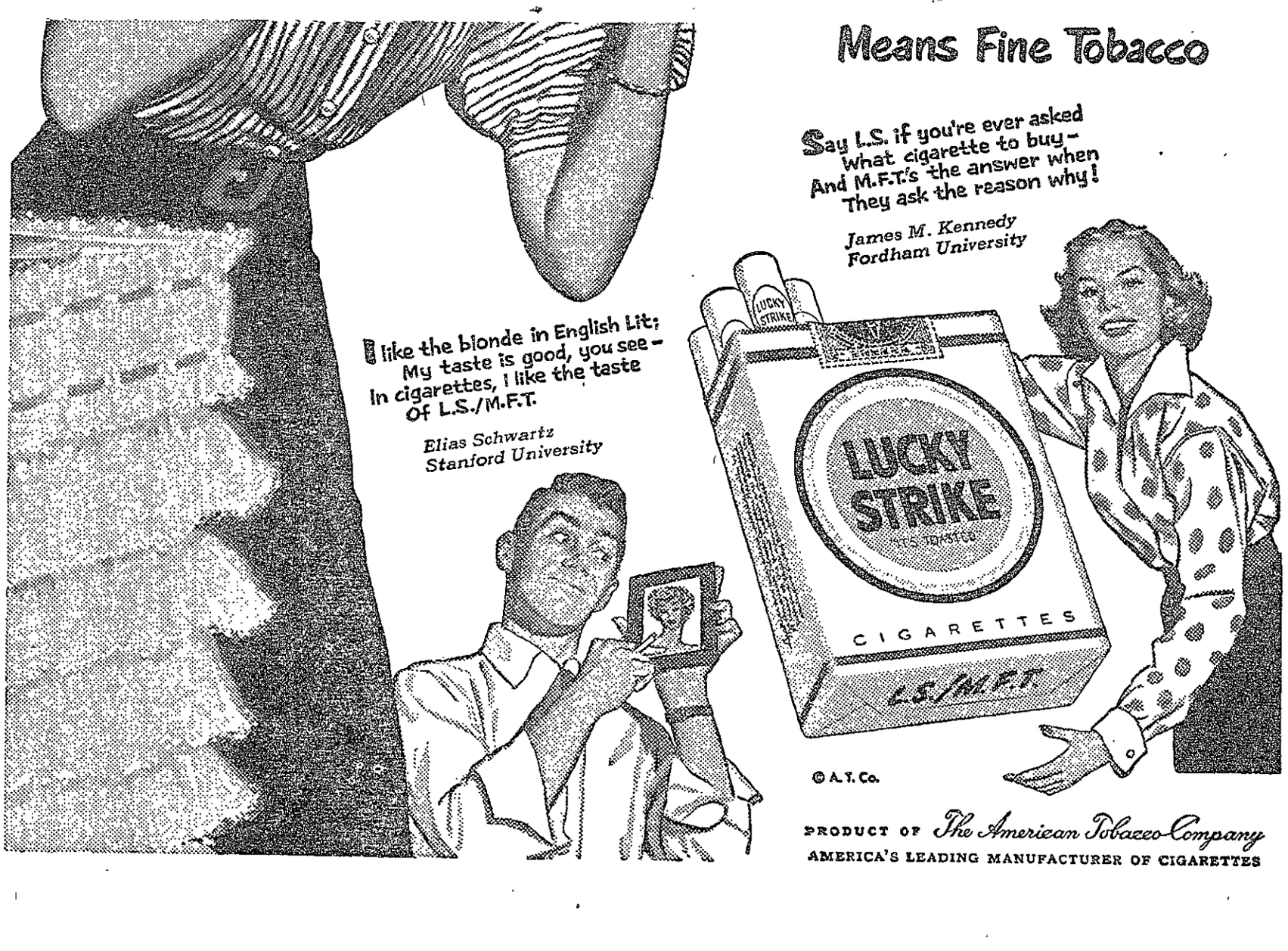


Dedication Exercises For New Metal Lab. To Be Held In June

Plans for dedication of the new Metals Processing Laboratory on Tuesday, June 3, have been announced by Dr. Thomas K. Sherwood, Dean of Engineering at the Institute. The dedication program will be followed on June 4 and 5 by a two-day technical conference on metal cutting which will feature speakers of national reputation in the metal cutting field.

Dedication exercises for the new building, made possible by a gift of $1,000,000 from Alfred P. Sloan, Jr., Chairman of the Board of General Motors Corporation, will include a presentation address by Mr. Sloan and an address of acceptance by M.I.T. President, Dr. James R. Killian, Jr.

Dean Sherwood will open the exercises at 10:00 a.m. with an address of welcome. Dr. C. Richard Soderberg, Head of the Department of Mechanical Engineering, will speak on "Metal Processing and Mechanical Engineering"; and Dr. John Chipman, Head of the Department of Metallurgy, will speak on "Metal Processing and Metallurgical Engineering."

These talks will be followed by the presentation and acceptance. An inspection of the new building, which is completely equipped for all types of metal forming and machine tool work, will conclude the morning program.

In the afternoon a survey of the teaching and research activities in metal processing at M.I.T. will be presented in two concurrent sessions: "Mechanical Metallurgy," under the chairmanship of Carl F. Floe, Assistant Provost and Professor of Metallurgy, and "Machine Tool Engineering and Metal Cutting," under the chairmanship of Milton C. Shaw, Associate Professor of Mechanical Engineering.

The session on "Mechanical Metallurgy" will include papers on "The Undergraduate Teaching Program" by John Wulff, Professor of Metallurgy; and "Graduate Teaching and Research" by Howard F. Taylor, Associate Professor of Metallurgy.

These talks will be followed by a series of laboratory visits and discussions in the new building. The series will include "Metal Working" by Walter A. Backofen, Assistant Professor of Metallurgy; "Welding" by Harry Udin, Assistant Professor of Metallurgy; "Foundry" by Howard F. Taylor, Associate Professor of Metallurgy; and "Powder Metallurgy" by Amos J. Shaler, Associate Professor of Metallurgy.

The session on "Machine Tool Engineering and Metal Cutting" will feature three major lectures: "The Teaching Program" by Prescott A. Smith, Associate Professor of Mechanical Engineering; "Thermal Considerations in Machining" by Erwin G. Loewen, Research Assistant, Department of Mechanical Engineering; and "Cutting of Crystalline and Non-crystalline Materials" by Nathan H. Cook, Instructor, Department of Mechanical Engineering.

Acoustics Lab

The M.I.T. Acoustics Laboratory was organized in 1946 under joint auspices of the Departments of Physics and Electrical Engineering and the School of Architecture and Planning.

For Open House the most imposing structure within the laboratory is the anechoic chamber, or, more correctly, the panel transmission test chamber. This facility was designed for measuring the degree of sound isolation provided by various floor and wall structures, and to be useful for work such as loudspeaker and microphone testing where a quiet, echo-free room is required.

Visitors may experiment with an underwater listening device, fabricated according to instructions from the notebook of Leonardo da Vinci. Da Vinci's device will enable visitors to hear otherwise inaudible sounds in the laboratory's large underwater sound tank.

Track

(Continued from Page 5)

between the two squads, with the outcome of these events holding the key to the meet result. Chris Geisler and Captain Ken Childs will be leading Tech representatives in the sprints, with Jerry Carpenter and Jerry Rothberg the chief threats in the weights.

Freshman Teams Strong

The freshman meet figures to be one of the best of the year, with both teams undefeated to date. The Beaver frosh easily swept through a weak Governor Dummer squad in their last meet and now will face their first major outdoor challenge tomorrow. Since Tufts allows freshmen to participate in varsity competition, how much of a threat the midget Jumbos will turn out to be depends on how Tufts Coach Yeager wants to use his men. Three of the Tech yearlings will be shooting for freshman records in the meet, with hurdler Warren Lattof going after his own record in the high hurdles, Captain Harry Schreiber aiming for the half-mile record and Bill Antoine seeking the high jump mark.

Acoustical Laboratory Develops New Speaker

Five months of research in the Institute's Acoustical Laboratory for a high quality but low cost loudspeaker for home use have at last borne fruit. Work on the speaker was completed just in time for it to be placed on exhibit for the Open House Week-end. Demonstrations will be given in the D. C. Jackson Room on the second floor of Bldg. 10. The new sound reproducing system, marketing at about $20.00, will rival present speakers costing upwards of $200.00. It was developed by Henry C. Lang and Jordon J. Baruch, Assistant Professor of Electrical Instrumentation in the Dept. of Electrical Engineering.

Speaker Consists of Four Smaller Ones

This new speaker essentially consists of four small loudspeakers set in a cabinet acoustically designed to produce the best results at small cost. How to determine the best results was determined by setting up an electrical analogue of the loudspeaker system in such a way that the main features could be studied and varied to produce the best results. These main features were then incorporated by principles of acoustical designing to obtain the final system.

Prism-Shaped Cabinet

The cabinet, shaped like a right angled prism and standing a foot high, is tuned to the fundamental resonance of the four, five-inch loudspeakers employed within. The speakers themselves have special features including an extended high frequency range. One triangular end of the cabinet has drilled holes, uniformly spaced whereas the other sides and end are lined with a special sound absorbing material.

With a market price as low as $20.00, the speaker will answer the increasing demand for high quality reproduction at reasonable cost.

Civil Engineering

The Central Exhibit of the Department of Civil and Sanitary Engineering will include exhibits indicating the scope of the activities of the individual laboratories which will be in operation during Open House. This exhibit also includes a model of the Surveying Camp, surveying instruments, plans and model of the Forest Hills Overpass now under construction, together with student designs of airports, highways and structures.

Motion pictures of the construction of the New Jersey Toll Turnpike, rolled earth dams and natural gas pipe lines will be shown in Room 1-150. Demonstrations sponsored by the Soil Mechanics Division (Rooms 1-333, 1-334 and 1-337) include quicksand, the mixing of soils with chemicals and the extruding of soil in the form of a model pavement.

The exhibits at the Hydrodynamics laboratory (Building 48) will include demonstrations of a breaking wave on a beach, shock wave patterns in water around a supersonic airfoil.

Development

(Continued from Page 3)

sonic Wind Tunnel, and the still incomplete Metals Processing Laboratory and the Biology and Food Processing Laboratory have all been added during that time. In addition, the Graduate House, Bexley Hall, Burton House, and the Sloan Building have all been acquired in this period.

Planned for the future are an Auditorium and Chapel. Building will proceed as soon as priorities on steel again become available.

From its humble start on the Cambridge side of the Charles, M.I.T. today stretches from the Sloan Building near the Longfellow Bridge to the R. H. White Building at the Cottage Farm Bridge with only a few exceptions. Such a growth in thirty-five years has truly been remarkable.

Dorm Comm

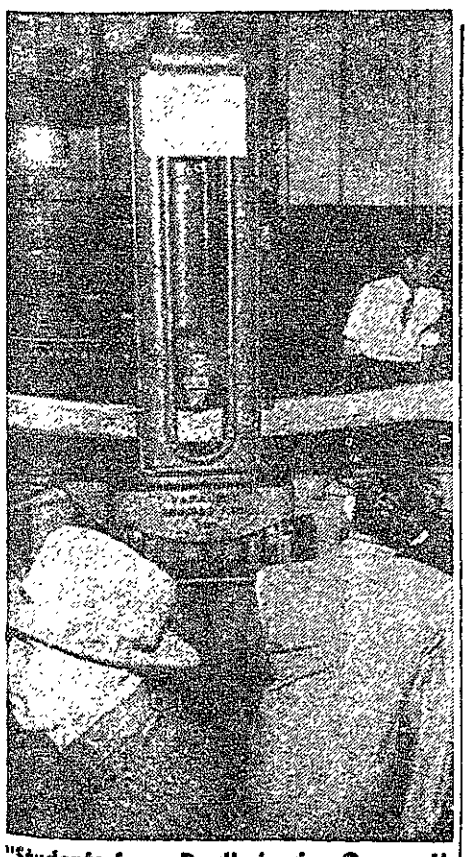
(Continued from Page 4)

chairman. Finally, a committee was set up to think up an incentive plan for the Dormitory social chairman. A plan suggested is that the dormitory committee set the amount it intends to lose on each social function. Then the social committee will divide up the "profit." This motion was tabled.

The newly elected Treasurer, Mark B. Schupack, '53, and the Social Committee Chairman, Frederick Zwerling, '53, resigned. Schupack resigned because he was appointed to the position of General Manager of **Technique** and Zwerling because of personal reasons.

Jon van Winkle, '53, was nominated for treasurer and Walter Kroy, '54, and Lenard Wharton, '55, were nominated for social chairman. The election will be held next meeting. For the present Jon van Winkle will continue as acting treasurer. From now on all treasurer's checks will now require the signature of the president of Dormcomm as well as the treasurer.

Educational Facilities Impress Most Visitors



"Students-for-a-Day" viewing Course II exhibit

By JOE KOZOL

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Demonstrated lectures by Professor A. R. Davis on "Fire and Control of Fire" and by J. P. Benkard on "General Physics" proved very interesting to guests of Open House. The English and History exhibits provided refreshing detraction from the air of science surrounding the Institute. Games and Student Activities helped to demonstrate the fact that the Institute is not just one rolling machine.

Most of the guests of Open House were from the vicinity of Boston but many people made special trips to visit the Institute. The peak of the crowd came at about 3:00 p.m., but interested onlookers were still wandering around at 7:30 p.m. The long and interesting tours impressed all who visited the Institute.

Each sport had an exhibit at Rockwell Cage. Among the most interesting was that of the Pistol Team. The men on the team were able to demonstrate shooting without fear of bullets ricocheting. Intra-mural track trophies were also exhibited. The pitching machine provided a big attraction for young onlookers.

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Next day, Tech, sailing on the Seekonk at the Brown University Yacht Club for the Sharpe Trophy, dumped Harvard into fifth place, but Coast Guard managed to eke out a one-point victory over the Tech squad which finished second. During the regatta, one of the most highly contested of the year, M.I.T., Harvard, Coast Guard, Brown and Dartmouth held the lead at one time or another. Melaika and Michelove, sailing in A division, scored 37 points with Buckland and deBerc taking top honors in B division with 42 points. Final scores gave:

Coast Guard	80
M.I.T.	79
Dartmouth	79
Brown	77
Harvard	75
Princeton	62
Yale	35

'ech

SETTS INSTITUTE OF TECHNOLOGY

ASS., TUESDAY, MAY 6, 1952

edlyBoost In Recent dly Watch

By JOHN D'AMICO

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Spectators and participants unanimously agreed that the spark never took fire, and termed affair complete fizzle.

A small group of Technology students and musicians appeared on the scene during the proceedings in an attempt to provide a mock communist appearance to the rally. The group, led by a student in a red cape, played the communist "Internationale" to the delight of the Boston newspaper reporters who seemed to have overemphasized greatly the part played by these jokers in the over-all affair.

During the two-day period preceding the rally, rumors advertising it ran wildly throughout the entire dormitory system and reached across the river to the fraternity men, some of whom were present to witness the proceedings.

Preceding the 9 o'clock explosion hour, dormitory residents sharpened their aim by hurling waterbombs from their windows onto passers-by below. When a bonfire was finally built just shortly after nine, residents quickly sought to douse it with water, but with the addition of more wood the fire eventually got its start. Very few residents left their rooms but chose instead to participate by hurling water-filled balloons onto the daring few in the quadrangle. Support by student amplifying systems was hardly as pronounced as it was during the last melee held a short time ago, but it nevertheless added to the barrage of noise.

Dormitory Manager R. R. Masterson watched quietly from the steps of Walker Memorial, quite unconcerned by the proceedings. He commented that the riot was "tame compared to those a few years back" and was sure that no real damage would be done.

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(Continued on Page 2)

"Pogo for President" boosters at not-too-successful May 1 "riot"

NOTICE

Air Force Talk

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Dean's List

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The seniors had 6.5% of its 867 students with first and 32% with second honors. Thus it more than doubled the percent of other classes receiving second honors and had 38.5% of its numbers winning honors, 17.5% above any other class.

Science Fair

(Continued from Page 1)

and was followed by Robert M. Oliver '52, Chairman of M.I.T. Open House, who extended an invitation to attend Open House to all who were interested. Dr. George R. Harrison, Dean of the School of Science, the main speaker, encouraged and praised the exhibitors for their efforts and interest which made the fair a success.

Baseball

(Continued from Page 3)

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Cliff Rounds, senior righthander from Detroit, started on the hill for the Techmen, the wet ball and chill in the air affected all the pitching, and Rounds was no exception, yielding 7 of the Bates' runs before being relieved by Sophomore Ted Slosek, who pitched splendidly, after an early battle to gain control of the moist spheroid.

In the 5th, down 8-0, the Engineers reached Berquist, Bates' starter, for 2 hits and 4 runs. Erratic base running proved costly here, snuffing out a promising rally. However, in the next frame, the Merrittmen again went to work, with Thompson doubling home two big tallies, and Bill Henderson stealing home with the tying run in a hectic dash and slide into the slime at home plate.

"He *is* rather nearsighted — but he never forgets the Angostura* in a Manhattan!"

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MAKES BETTER DRINKS

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TECHNOLOGY STORE

ATTENTION

BACHELORS – MASTERS – DOCTORS

If you plan to rent a cap and gown through the Coop, your order must be placed before May 9.

Cancellation of orders will be accepted through May 19.

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Radios, Phonographs, Television rented

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DANCES

FRIDAY, MAY 2

Cambridge YWCA—The girls at the Cambridge YWCA are holding another one of their regular Friday night shindigs at the Annex Basement, 7 Temple St., Cambridge, near Central Square. There will be dancing to records, a snack bar, cards, and a lounge there for your enjoyment. Admission is $.40 plus tax and it lasts from 8 to 11:30 p.m.

Cambridge City Hospital—There is going to be a "Maypole Dance" at the Cambridge City Hospital Nurses Home, 16 Camelia Ave., Cambridge. If you go, you'll find refreshments there and the girls will do their best to make sure that you have a good time. It's for free and it starts at 8 p.m.

Mass. General Hospital—The student nurses of Walcott House are having another one of their regular Friday night dances and they would like to see you there. There will be dancing, refreshments, television, and, of course, girls. It's at Mass. General Hospital, Walcott House, Fruit St., Boston, it starts at 8 p.m. and admission is $.50.

THEATER

STAGE

Shubert—In town with the Broadway cast is that smash musical comedy, "Gentlemen Prefer Blondes," written by Anita Loos and starring Carol Channing. Tickets are still available.

Colonial—Closing out this weekend is T. S. Eliot's classic comedy, "The Cocktail Party," featuring Dennis King and Estelle Winwood with Neva Patterson.

Brattle—Opening here is George Bernard Shaw's famous drama, "Heartbreak House." Starring is Philip Bourneuf.

SCREEN

Exeter—Highly recommended is a hilarious importation from England. "The Man in the White Suit." It stars Alec Guinness, whose past performances have always been highly entertaining.

RKO Keith Memorial—The current attraction here is "Macao," a musical melodrama starring Robert Mitchum and Jane Russell with William Bendix.

Electronics Lab

Professor Herlin of the low temperature Electronics Lab has promised to demonstrate phenomena near absolute zero using liquid helium at Open House. The engineers will show a poor man's electronic machine for solving home problems, a device for making Lissajou's figures out of speech, a recently developed traveling wave tube, and will report on some detective work in tracking down television ghosts.

Fraternity Findings

By HENRY HEBELER '55

Last Saturday the Chi Phi's he another of their Bohemian Ball. An estimated three hundred peop packed the house which was dec orated like Macao, an oriental islan known for its internationally in famous characters. There the pi rates, Persians, and collies drank the foaming seabreezes like water thus keeping everyone in the best of spirits until the highlight of th evening appeared on stage—Chich la Johnson. Chichi carried the ha from there with her traditiona Bohemian dance. Doing an excel lent job on the skit and party ar rangements were Jim Astrue an Harry Faulkner, who engaged th Techtonians to play for a very suc cessful night.

Alpha Epsilon Pi also played ho to about three hundred people fo a New England convention of the fraternity. It turned out to be weekend affair beginning with beer brawl on Friday and endin with a big dance which lasted we into Sunday. Losing a basketb game to a chapter at Tufts did n dismay the A.E.Pi's; in fact, th all agreed that it was a most sati fying and enjoyable weekend.

Phi Kappa Fraternity held annual Spring Cocktail Party Saturday afternoon. Old Fashio Manhattans and Daiquiris comp mented by some of the finest ho d'oeuvres to be seen on camp comprised the refreshments. modern combo provided the b in Modern Jazz for the guests. D tinctive purple, white and gold sages were presented to all dates. Over two hundred coup were in attendance despite dreary weather and all left party with the satisfied smile always accompanies exalted spir

At the door of the Pi Lam Phi house this coming Saturday can exchange your bid for s fabulous amount of money to used on their gaming tables. and you will get a bottle of cha pagne.

If you hide your tux which necessary for the Pi Lamb Monte Carlo and put on a g skirt you will be properly att for the Phi Gam's Fiji Island Pa The decorations will probably b ornate as usual, and the rum banana punch sounds terrific.

To held make this weekend co plete, the Phi Sigma Kappa's giving a Fiftieth Anniversary B

Physics

The Physics Department exhibits his year will be on the first floor, Rooms 1-147 and 1-143, rather han in the almost inaccessible hird floor physics laboratories.

One of the few model atomic les in the United States is being nt by Professor Clark Goodman; nd will be operated in Room 1-147. he exhibitors will activate silver oney with the pile. As usual there ill be a Van de Graaf machine mong the other nuclear physics isplays.

J. Phillip Benkard, a graduate udent, will deliver two one-hour ctures on general physics in Room 0-250 at 1 and 3:30 p.m.

Food Technology

Food Technology exhibits will clude the automatic peeling and ashing of potatoes, placing the otatoes in cans, and heat process- g them. Baking and scoring of read will be demonstrated, with mples showing various defects. he production of soluble coffee n a laboratory scale also will be emonstrated and explained.

As a demonstration of rapid oking by means of the radar nge, apples will be baked in a action of a minute and distributed samples of food cooked this way.

taste test will determine the sitor's sensitivity to the four basic stes. An interesting movie on neapple will be shown continu- sly throughout the day.

Newest Type Wave Propagation In V.H.F. Range Discovered

Discovery of a new type of radio wave propagation was reported at the Institute last Wednesday.

Formal announcement of the discovery will be made in the forthcoming issue of the "Physical Review." This new type of radio wave propagation consists of continuous long-distance transmission of a very high frequency radio signal of the type normally limited to short-range use. The successful long-distance transmission has been established between Cedar Rapids, Iowa, and Sterling, Virginia, over an airpath of about 800 miles.

The discovery is the result of a joint experiment by the Institute and the National Bureau of Standards with the cooperation of the Collins Radio Company of Cedar Rapids. The initial investigations leading to the discoveries were accomplished by M.I.T. under the auspices of the Department of State's International Broadcasting Services as part of a program undertaken for the Department's Voice of America. The study group was directed by Dr. E. M. Purcell, Professor of Physics at Harvard University, and included Mr. D. K. Bailey of the National Bureau of Standards; Dr. L. V. Berkner, Associated Universities, Inc., who was then with the Carnegie Institute; Dr. H. G. Booker of Cornell University; Dr. W. W. Salisbury, then with the Collins Radio Company and now at the University of California; and Dr. J. B. Wiesner, Director, Research Laboratory of Electronics at the Institute.

Ordinary high-frequency radio wave propagation over long distances on frequencies lying roughly between 5,000 and 20,000 kilocycles, results from the signal's being bent around the curvature of the earth by the ionosphere, a section of the upper air holding free ions and electrons. Very high-frequency signals, on the other hand, like the 49,800 kilocycles frequency used in the experiment, have customarily been regarded as penetrating the ionosphere with inappreciable bending to be lost in outer space.

Without this bending, which is a refraction similar to the bending of light waves in water, very high frequency radio transmission is normally thought to be limited in distance to the horizon. For this reason, the application of very high frequencies has been restricted to short-range transmission like that needed in police work, FM broadcasting, and television.

Before the recent experiment, very high frequency radio waves were known to have been trans-

(Continued on Page 10)

Mechanical Eng.

The steam and water power laboratory will have its oldest and newest power generating equipment running at Open House in Room 3-150. Stopping the Pelton water wheel by stroboscopic light may be seen.

The textile division (Rm. 3-315) will display the latest equipment for testing modern textile materials. A miniature room and a cord weaving machine will be in operation. The most modern and very old fabrics will be contrasted on display.

The automotive lab in the same building will have the following major exhibits:

Several model engines run by thesis students in operation including the geometrically similar engines built to determine the effect of size on engine performance; a demonstration setup for combustion temperature measurement by means of sound waves, and an automatic engine dynamometer measuring power output. There will be a Plymouth engine running on Propane testing its application as an engine fuel.

Modern Language

Modern Languages exhibit for Open House centers about work being conducted in the analysis of speech and language. Unusual in the display is a "Phoneme Detector," designed largely by Mr. Caldwell Smith. Phonemes are units of speech, and various extensive lists have been compiled of the phonemes particular to one or another language. The job of separating pitch and intensity from speech is not an easy one, and the Phoneme Detector accomplishes this task with a large bank of electronic filters. Results may be photographed from a cathode-ray oscilliscope, or inscribed on recording devices analogous to cardiogram machines. This is a fresh field, and new results are being uncovered daily in R.L.E., where this work is going on.

The Phoneme Detector will be called upon to analyze various samples of a dozen foreign languages which are on tape recordings. These tapes are themselves a part of the exhibit. Among the languages represented are Circassian, a harsh dialect spoken in the Caucasus, and Bush language, whose salient characteristic is the clicking noise made by the speaker. These clicks, though made with the tongue, sound like two pieces of wood being knocked together.

The "Mother-in-Law Machine" is actually a Delayed Feedback device. Guests will be invited to speak into a microphone, and their words will come back to them via earphones with a slight delay of about ⅛ to ¼ of a second. Hearing one's own words after such an interval produces unnerving physiological reactions, and the speaker is usually reduced to stuttering; indeed, a critical delay may produce even more untoward results in some people, including high blood-pressure or physical uneasiness. There is always **some** reaction, and if you try to tell your draft board you are deaf, this device is a sure test that will refute your claims.

Undergraduate Housing Rules Changed For Simplification

To simplify operation and to prove communications, several nges have been made in underduate housing according to morandum issued by F. G. Fas- Associate Dean of Students.

Walcott, Bemis and Goodale will available for summer occupancy nesday, June 4, through Sun- August 31. Rentals for the nd term expire on June 3. All lents, except seniors who ex- to attend commencement exer- , must remove their personal ts by that time. The seniors not be charged for maintain- their present accommodations June 3 through June 7 pro- d they notify the housing office e Graduate House by May 17. iority in assignment of rooms be first to those who want to n their present room, second ose who want to change rooms e same house, third to those want to change houses and fourth to all others. Within each group, preference will be given to juniors, sophomores and freshmen in that order.

All fines and deposits connected with the operation of the Houses have been abolished.

The double suites in Atkinson, Runkle, Nichols and Holman which were converted to three-man suites immediately after the war will revert to their pre-war status as doubles.

The 410 section of Burton House will continue as the Co-operative Unit.

To consolidate anticipated vacancies this Fall term, the students are requested to make no first choice applications for the fourth and fifth floors of both Walcott-Bemis-Goodale and the 420 section of Burton House.

Any questions regarding applications and reservations should be directed to Dean Fassett.

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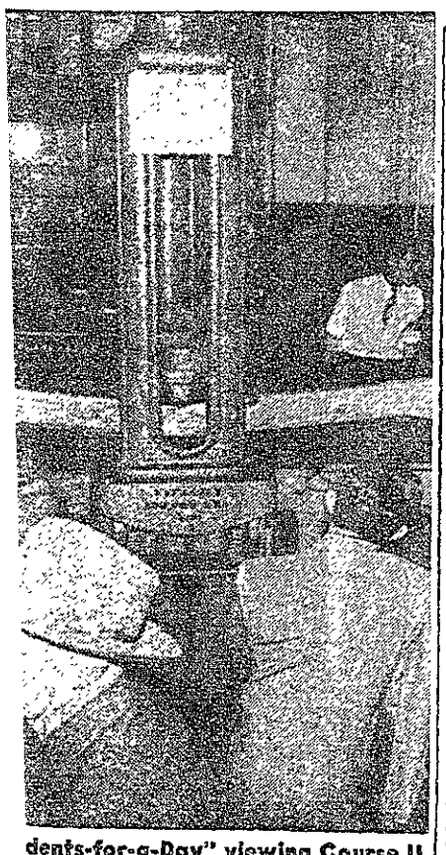

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Institute Committee Approves Examination Review Period

The Institute Committee unanimously stated in its Wednesday meeting that it was in favor of a four-day reading period for all classes in the fall term in its meeting in Litchfield Lounge on Wednesday.

George Stevenson, '53, chairman of the Judiciary Committee, nominated three juniors '54 for the position of the non-voting members of the committee. They were Sam Losh, Joseph Boba and Michael Boylan. One other nominated from the floor was David Vogel. Boylan, Losh and Vogel were elected.

Gilbert Gardiner, '53, moved to bring the Student Government Investigating Committee off the table. The committee was reactivated after only a short discussion. Three additions to the by-laws were approved. They were that the Secretariat was to hold a meeting of all class A and B activities to explain to them the functions and rules of the Secretariat. One change in the proposed amendments was effected. The opinion of the committee was that a one-term suspension was too severe a penalty for class B activities. Thus it was resolved that all activities would be suspended until they contacted the Secretariat.

The reading period resolution was accepted with only a short debate. This was actuated by the recent poll of the Sophomore class on this question by the Student-Faculty Committee.

City Planning

"THE LITTLE THINGS PLANNERS DO," title of the City Planning Department's exhibit in Room 7-103 could be misleading. Beginning with the overwhelming MISSOURI FLOOD situation, the planners describe how the TAMED TENNESSEE, once subject to even more disastrous floods, is now fully in the service of man, producing power, water navigation, and tremendous areas for recreation. THROUGH PLANNING is the watchword of this exhibit, and the little things turn out to prevent the most explosive situations.

Medical Dept.

The Medical Department exhibit for Open House is entitled "The Detection and Measurement of Occupational Hazards," and will consist of a display of equipment used here at the Institute by the Occupational Medical Service of the Department.

The exhibit will be essentially the same one which created so much interest two years ago and will include several types of radiation detection instruments (Geiger counters) sensitive enough to be activated by radiation from the luminous paint on watch dials. Instruments for measuring minute amounts of air-borne contaminants (gases, vapors, and dusts) will also be demonstrated.

Biology

Technical and chemical approaches to biology are outlined in the exhibits of the Biology Department. Electron microscopes, capable of distinguishing objects two ten-millionths of an inch in diameter, will have specimens to be viewed. X-ray diffraction units, used to measure atomic distances, and ultraviolet spectroscopy, which identifies compounds by absorbing specific wavelengths of light, will also be exhibited.

Human and chick embryos will be displayed, and 48 hour live chick embryos, in which the beating heart and embryonic brain are visible, will be under microscopes. Techniques for the study of enzymes, the organic catalysts of the body, as well as the field of biochemistry, which is responsible for the familiar "wonder drugs," will be displayed. Two movies, "How Chick Life Begins" and "Body Defenses Against Disease," will be alternately shown throughout the day.

Chemical Engineering

Visitors to the Chemical Engineering Open House on May 3 will find exhibits and demonstrations to suit many tastes. Some exhibits will belch forth fire and noise, and some will just sit in beakers and behave in curious manners which to the untrained person may seem contrary to the laws of nature.

In Room 2-019 there will be a noisy demonstration of a rocket which burns hydrazine and hydrogen peroxide.

Among the colloidal chemistry exhibits in Room 12-169 will be a rubber ball made many years ago by the Aztec Indians of South America. Colloidal particals will be made visible with an ultra microscope. Bouncing putty, colloidal solutions of metals, and various gells will be on display. A glass, bubble plate distillation tower will be in operation in the basement of Building 12.

Meteorology

The Meteorology Department exhibition, occupying the fifth and sixth floors of Building 24, will offer a demonstration of the complete process by which the Weather Bureau forecasts are made. Complete collections of weather data from hundreds of U. S. and foreign stations will be mapped and analyzed by teams of student forecasters.

An exhibition of large scale weather maps will show the origin, course and effects of a typical New England Nor'easter. Visitors may also obtain information on specific weather questions from any of the exhibitors.

Radio Waves

(Continued from Page 9)

mitted from time to time to distances substantially beyond the horizon but only by unusual and erratic atmospheric conditions.

Occasionally patches of relatively dense ionization in the lower ionosphere called the sporadic E layer have accounted for sporadic long distance very high frequency transmission. Radio amateurs have for many years now also reported occasional contacts attributable to back scatter from auroral activity. The transmission of the recent experiment may be regarded as a weak kind of sporadic E propagation except that it is continuous.

The scientists conducting the experiment believe the new kind of propagation can be regarded as scattering from ever-present irregularities and motions of electron clouds in the E layer. They also believe the signals are returned from a part of the E layer near the region where ordinary high frequency radio waves are absorbed in the daytime. In the experimentation reported, it is revealed that this type of transmission is enhanced during periods of ordinary high frequency radio blackouts associated with solar flares. Continuing experimentation is expected to provide further facts about the nature of this new kind of very high frequency propagation.

Editorial

(Continued from Page 4)

Athletic Association.

To begin with, the subcommittee should ensure Tech's-poppin' an exclusive place in the Social Calendar; it should then organize the event at the beginning of the athletic season—that is during the Fall Term—when the untried performance of the teams will stir more interest than at the end of the season when their athletic ability is known; it should use all available publicity to the full; it would at all times have behind it the full authority of Institute Committee.

It is our opinion that Tech's-a-poppin' should be revived; steps should be taken immediately to prepare plans for a new Tech's-a-poppin' this fall.

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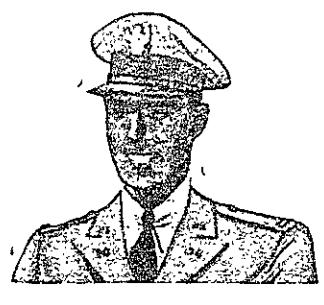

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GRADUATE HOUSE		11 A.M.-12
BURTON HOUSE		11 A.M.-12

ALL ARE WELCOME

'ech

JSETTS INSTITUTE OF TECHNOLOGY

IASS., TUESDAY, MAY 6, 1952

edly Boost In Recent dly Watch

By JOHN D'AMICO

Chemical and hydro-warfare, plus a bonfire and acetylene cannon were used to spark the East Campus mock May Day riot; Pogo enthusiasts paraded "Pogo For President" banners as Cambridge police, somehow informed, waited quietly on Memorial Drive in anticipation of further action which never developed. Beginning about 9 p.m. on Thursday, the riot was completely disbanded at 11:30.

Spectators and participants unanimously agreed that the spark never took fire, and termed affair complete fizzle.

A small group of Technology students and musicians appeared on the scene during the proceedings in an attempt to provide a mock communist appearance to the rally. The group, led by a student in a red cape, played the communist "Internationale" to the delight of the Boston newspaper reporters who seemed to have overemphasized greatly the part played by these jokers in the over-all affair.

During the two-day period preceding the rally, rumors advertising it ran wildly throughout the entire dormitory system and reached across the river to the fraternity men, some of whom were present to witness the proceedings.

Preceding the 9 o'clock explosion hour, dormitory residents sharpened their aim by hurling waterbombs from their windows onto passers-by below. When a bonfire was finally built just shortly after nine, residents quickly sought to douse it with water, but with the addition of more wood the fire eventually got its start. Very few residents left their rooms but chose instead to participate by hurling water-filled balloons onto the daring few in the quadrangle. Support by student amplifying systems was hardly as pronounced as it was during the last melee held a short time ago, but it nevertheless added to the barrage of noise.

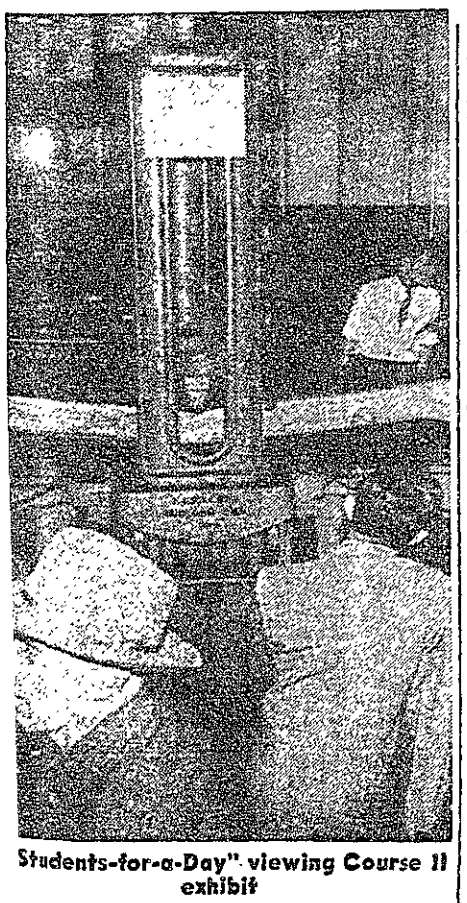
Dormitory Manager R. R. Masterson watched quietly from the steps of Walker Memorial, quite unconcerned by the proceedings. He commented that the riot was "tame compared to those a few years back" and was sure that no real damage would be done.

Pogo enthusiasts arrived shortly after the bonfire was built and pa-

(Continued on Page 2)

"Pogo for President" boosters at not-too-successful May 1 "riot"

Educational Facilities Impress Most Visitors



Students-for-a-Day" viewing Course II exhibit

By JOE KOZOL

It is estimated that twenty-five ousand people visited the Insti-te when it opened its doors for e eighteenth Open House on May third. Two hundred guides were present to conduct visitors to the exhibitions presented by the departments and student activities which combined to present to the outsider a glimpse of the Institute and of the life that is built around it.

Various laboratories were opened to display the mass of equipment the Institute possesses, the use of which facilitates experimental knowledge and research for the students.

Demonstrated lectures by Professor A. R. Davis on "Fire and Control of Fire" and by J. P. Benkard on "General Physics" proved very interesting to guests of Open House. The English and History exhibits provided refreshing detraction from the air of science surrounding the Institute. Games and Student Activities helped to demonstrate the fact that the Institute is not just one rolling machine.

Most of the guests of Open House were from the vicinity of Boston but many people made special trips to visit the Institute. The peak of the crowd came at about 3:00 p.m., but interested onlookers were still wandering around at 7:30 p.m. The long and interesting tours impressed all who visited the Institute.

Each sport had an exhibit at Rockwell Cage. Among the most interesting was that of the Pistol Team. The men on the team were able to demonstrate shooting without fear of bullets ricocheting. Intra-mural track trophies were also exhibited. The pitching machine provided a big attraction for young onlookers.

The R.O.T.C. provided another group of outstanding exhibits. Every conceivable type of weapon was displayed. Also exhibited were standard Army guns of the Civil War, The Spanish-American War, World War I and World War II. Walkie-talkies provided more entertainment for younger people. Among the other interesting pieces of equipment displayed was a Radio Direction Finder, which is able to give the direction of a station sending out radio signals. Among the smaller field pieces were the 57 millimeter recoilless rifle and the 50 caliber machine gun. The R.O.T.C. exhibit was quite informative to passers-by who knew little of weapons and military equipment.

The general consensus of opinion was that Open House was quite successful and that all those who visited the Institute were favorably impressed.

to 38. In the final race, Kerwin, Melaika and Felsenthal teamed together to give Harvard a good thumping, 50¼ to 40.

Although the point score came out a tie, at 177½, Tech skippers placed their points to greater advantage. Harvard had the two highest scorers, but Almquist, Buckland and Rieman provided the depth that proved too much for Harvard.

Next day, Tech, sailing on the Seekonk at the Brown University Yacht Club for the Sharpe Trophy, dumped Harvard into fifth place, but Coast Guard managed to eke out a one-point victory over the Tech squad which finished second. During the regatta, one of the most highly contested of the year, M.I.T., Harvard, Coast Guard, Brown and Dartmouth held the lead at one time or another. Melaika and Michelove, sailing in A division, scored 37 points with Buckland and deBerc taking top honors in B division with 42 points. Final scores gave:

Coast Guard	80
M.I.T.	79
Dartmouth	79
Brown	77
Harvard	75
Princeton	62
Yale	35

NOTICE

Air Force Talk

Major Robert P. Lent of Headquarters, U.S.A.F., will lecture in Room 4-270 Wednesday, May 7, at 8:00 a.m. on technical careers in the Air Force. His talk will center on what AFROTC Cadets may expect upon entering active duty in the way of job assignment and future requirements. All those interested are invited.

Dean's List

(Continued from Page 1)

sophomore, and junior classes gives 21% of each class receiving honors.

The seniors had 6.5% of its 867 students with first and 32% with second honors. Thus it more than doubled the percent of other classes receiving second honors and had 38.5% of its numbers winning honors, 17.5% above any other class.

Science Fair

(Continued from Page 1)

and was followed by Robert M. Oliver '52, Chairman of M.I.T. Open House, who extended an invitation to attend Open House to all who were interested. Dr. George R. Harrison, Dean of the School of Science, the main speaker, encouraged and praised the exhibitors for their efforts and interest which made the fair a success.

Baseball

(Continued from Page 3)

On Saturday, the never-say-die Tech baseball team rallied strongly, with 4 runs in each of the 5th and 6th innings, to overcome an early 8-0 Bates' lead, and emerged with its second stalemate of the season, in a game marred by inconsistent pitching, and eccentric umpiring. The game, played in a steady drizzle with first and third bases a quagmire, was an exciting one for the few who braved the elements.

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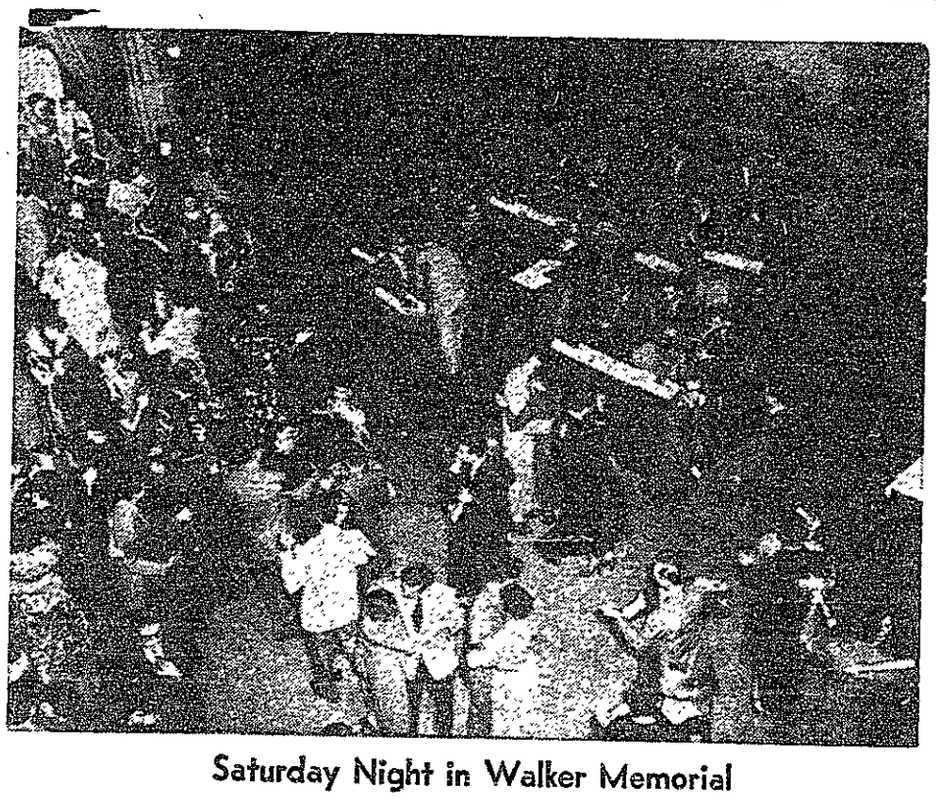
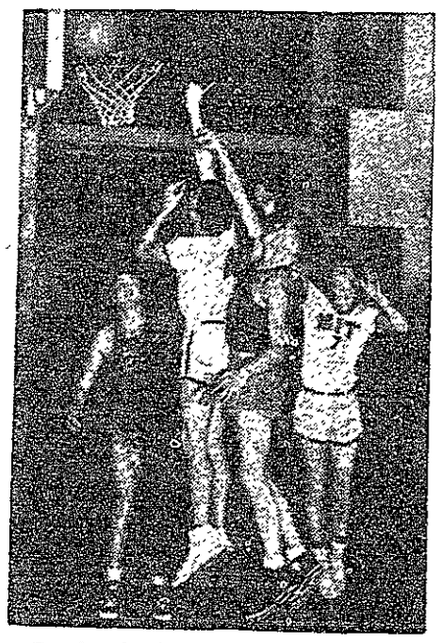
Student Life—A Picture Story



Saturday Night in Walker Memorial

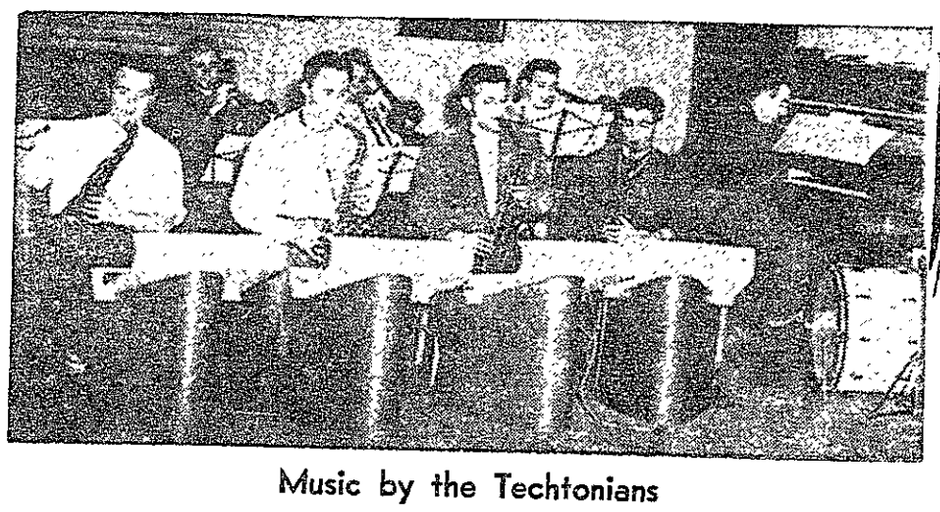
Field Day Glove Fight

Publications Paradox



Basketball Team in Action

Over the Hurdles in Track



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