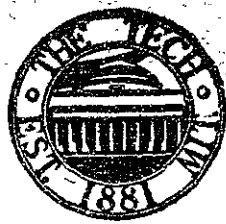


The Tech



OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXIV. NO. 21

CAMBRIDGE, MASSACHUSETTS, FRIDAY, MAY 7, 1954

5 CENTS

19th Annual Open House Saturday

Inscomm Discuss Student Union & Cost Of Walker

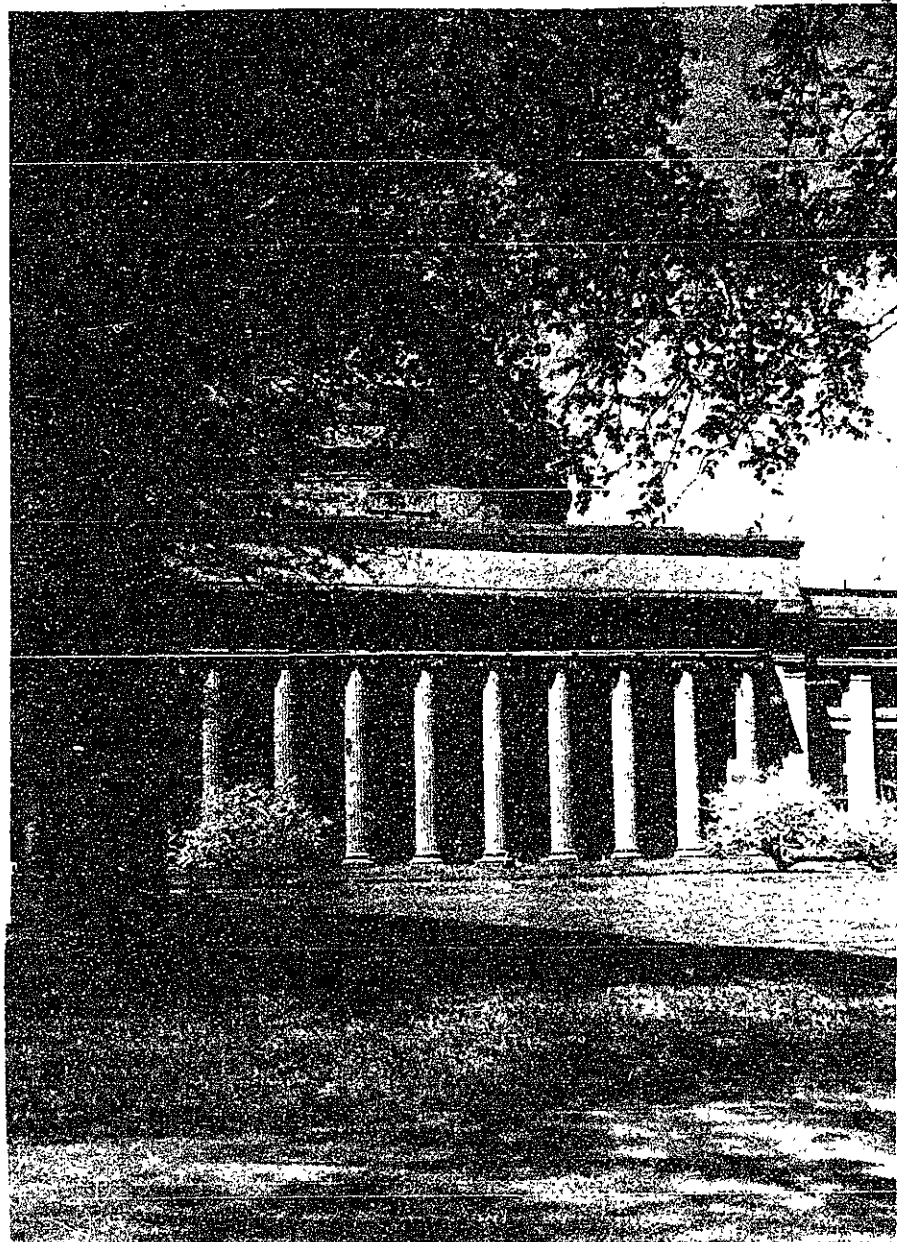
Inscomm formally approved the completed Student Union report and moved to support it at the May 5 meeting. Submitted by David Brooks '55 for the Student Union subcommittee, the report explains the need for and suggests space allocations in the proposed building, and lists recommendations for future Inscomm action.

John Saloma '56, who headed an investigation of the \$110 Walker rental fee, reported that, effective September 1954, Walker will be available at \$73.50 per evening if the renting activity provides a minimum of five men to assist the reduced Walker crew. Inscomm 1954-1955 budget requests subsidy funds from the Institute sufficient to reduce the rental to \$35.

After meeting with Nolan Jones of the Graduate Council, Inscomm rescinded a motion calling for dissimilar graduate and undergraduate MIT rings.

In order to save the estimated \$2000 a year cost the committee recommended that the Athletic Association discontinue Field Day football if a suitable substitute can be found. They also designated scheduling of intercollegiate athletic events as the responsibility of the Director of Ath-

(Continued on page 6)



Spring comes to the Great Court.

Next Wednesday Is Military Day At The Institute

Military Day will be observed next Wednesday, May 12, when the A.F.R.O.T.C. and R.O.T.C. units here at the Institute gather for a mass formation. In recognition of Armed Forces Week, they will pass in review before President James R. Killian, Jr., Dean of Humanities John E. Burchard, and civilian and military officials. Awards will be presented by various military organizations, including the Research and Development Command, Reserve Officers Association, and Armed Forces Chemical Association, to proficient students in the Institute R.O.T.C. program.

Visiting military representatives will include; Major General Maud of the Research and Development Command; Major General Roderick Allen from Fort Devens; Brigadier General J.C. Odell, commanding-general of the Quartermaster Research Center. Among the civilian representatives will be Ernest Hoftzyer of the Boston American, who will present the William Randolph Hearst Trophy.

Awards to be presented include: Boston Chapter of the Sons of the American Revolution; Armed Forces Communication Award; Armed Forces Chemical Association Award; Reserve Officers Association Award; American Ordnance Association Award; Quartermaster Association Award; Army Security Certificate and the Society of Military Engineers. These awards will be presented to juniors and seniors. The M.I.T. Rifle Team will receive the Hearst Trophy for their second place in the First Army Area. President Killian will present the freshman awards. The Society of Scabbard and Blade is presenting awards to eight outstanding freshmen in the R.O.T.C. course. They will be chosen from both the Army and Air Force Units.

Student Activities On Display For Saturday's Open House

Student activity exhibits will play an important part in the Institute's Open House to be held this weekend. Although many of the organizations are working in conjunction with the department most closely allied with their particular interest, some of them have organized their own displays, to be maintained and operated by members of the group.

The Debating Society will be presenting a demonstration debate between two of its members here at the Institute and two men from Harvard. The debate, "Should a Modern Education be Based on Sciences or the Humanities?" will be presented at 4:00 p.m. in Room 3-370.

The Nautical Association will display some boats and accessories at the sailing pavilion, and the Outing Club will have an exhibition of camping equipment on the lawn behind the

Prof. W.C. Voss To Be Consultant For Dept. Defense

Professor Walter C. Voss, former Head of the Department of Building Engineering and Construction, has been appointed a consultant to the Department of Defense. The appointment was made by Admiral J. F. Jelley, Assistant Secretary of Defense for Properties and Installations. In line with the Defense Department's drive for developing sound and economical construction programs for military purposes, Professor Voss will be engaged in reviewing the various types of buildings used by the Armed Forces and will participate in the development of standardized and sound construction practices.

Humanities Library.

A collection of 16 sports cars of varied design will be displayed in the main parking lot behind Building 10 by the Motor Sports Enthusiasts Club. A refreshment stand will be provided by the Beaver Key Society in the Lobby of Building 10.

The Aeronautical Engineering Society will have a completely assembled soaring glider on display in front of Building 33, and the Tech Model Aircrafters, their smaller scale counterpart, will demonstrate some flying models in Walker Gymnasium. Model trains will be exhibited in two places by the Tech Model Railroad Club, which has its main exhibit in Room 20E-214, and a smaller one in Room 2-136.

WMIT is planning on broadcasting the performance of the Concert Band, which will play in the Great Court from 2:00 p.m. to 5:00 p.m. In the event of rain, this concert will be transferred to the balcony of Building 7. The radio facilities of WMIT will be demonstrated in Morss Hall of Walker Memorial.

Both the 5:15 Club and the Hobby Shop are holding Open Houses, the former in Walker Memorial's basement, and the latter in Room 2-051.

The WMIX Radio Society will demonstrate amateur radio operation on the terrace of Building 14, and is planning to have visitors participate in sending messages to hams in other parts of the United States.

The M.I.T. Chemical Society will offer three showings, at 1:30, 3:30, and 5:30 p.m., of "Chemical Magic", which will be held in Room 2-390.

Tech Show will present excerpts from this year's musical in Room 2-190 at 1:00, 3:00 and 5:00 p.m.

Student government, student publications and religious organizations will also be represented at the Open House by exhibits.

30,000 Visitors Expected Between 12 And 7:00 P.M.

About thirty thousand people are expected to attend the nineteenth biennial open house at the Institute this Saturday. Nearly all student activities as well as all the educational departments will provide exhibits in order to acquaint the visitors with life at M.I.T.

Preparations for the 19th biennial Open House began in early February when a student open house committee under David Vogel '54 was appointed, as well as a faculty advisory committee headed by Professor Douglas P. Adams.

Since then the committee has been busy contacting school academic departments and sub-departments; planning displays, demonstrations, lectures, and movies, and arranging times, furniture, men, materials and places in

order to integrate all the details into an over-all program. A publicity subcommittee printed and distributed invitations to secondary schools in the area, New England colleges, M.I.T. students, staff, and personnel, and local officials in addition to contacting radio stations and local newspapers.

Still another sub-committee has made arrangements to insure that visitors will not become hopelessly lost in the labyrinth of corridors, buildings, basements, and parking lots. Eight information booths will be located at important junctions, guides will be posted at strategic corners to aid the confused visitor, and lost and founds will operate for the benefit of boy scout troops. Special M.T.A. cars have been placed in service and every possible inch of parking area made available.

Tours Planned

Tours of the Institute, designed for visitors to follow individually rather than in guided groups, will originate from the lobbies of building ten and seven. There are so many exhibits and demonstrations that no one could possibly cover the entire Institute in the seven-hour Open House period. For this reason eight special tours were organized; some for those interested in a particular area of study, and others which will cover the most exhibitions in the shortest walking dis-

(Continued on page 2)

President Killian Extends A Welcome To Institute Guests

It gives me much pleasure to welcome to M.I.T. all who have come to enjoy our 19th Open House.

In its Schools of Science, Engineering, Architecture, Humanities, and Industrial Management, M.I.T. has been closely associated with many of the great developments of our age. We hope that the exhibits which you will see here today will make it possible for you to become better acquainted with the many ways in which an educational institution such as M.I.T. is serving the nation and its youth.

We hope that you will enjoy being on our campus; we are delighted to have you here.

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

EXAM CONFLICTS

Conflict examinations or examinations not listed on the June 1954 Examination Schedule must be reported to the Office of the Registrar, Room 7-142, by 5:00 p.m. on Tuesday, May 11.

INFORMAL DANCE

I.D.C. will hold an informal dance on Saturday, May 15, at 8:00 p.m. in Walker Memorial. Refreshments will be served. Admission \$1.00.

Burton Co-op Rooms Not To Be In Separate Group

Burton House Committee in its meeting this week defeated by a vote of 8 to 5 a motion that the Cooperative section of the dormitory be considered separately from the rest of the House with respect to the assignment of rooms. Residents in the 410 section have complained that outsiders have been receiving priority over men already living in the section.

Other portions of the motion proposed that residents of this section be given first priority in room assignments; that those of the 420 section receive second priority; and that students outside Burton House be given last choice.

The situation is not yet settled because of the absence of two members of the Cooperative section, during the balloting.

Burton House Committee also passed a measure to install a juke box in Burton Lounge. The juke box will probably be installed next fall.

Institute Studies Lowell Council's New TV Station

An educational television station is expected to begin broadcasting this fall on Channel 2, here in Boston. This TV station will be known as WGBH-TV, and will be operated by the Lowell Institute Cooperative Broadcasting Council, which also in part administrates WGBH-FM. The above council is composed of representatives of ten institutions in the area, of which M.I.T., Harvard, and the Lowell Institute are the principal members. President James R. Killian, Jr. has just appointed a committee, headed by Professor Thomas K. Sherwood of the Department of Chemical Engineering, to study the role M.I.T. will play in the development, use, and operation of the noncommercial station, as well as the ways we can be most helpful. The committee is not expected to arrive at any specific conclusions until September. The proposed station will be in a position to use our auditorium, which will be connected by coaxial cable to their studios above Walton's, opposite the main entrance to M.I.T. The station's transmitter is located on Great Blue Hill in Milton.

The Tech

VOL. LXXIV Friday, May 7, 1954 No. 21

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OFFICES OF THE TECH

News, Editorial and Business—Room 020, Walker Memorial, Cambridge 39, Mass.
 Entered as second class matter at the post office at Boston, Massachusetts.

Editorial

OPEN HOUSE 1954

With no little pride in its task, *The Tech* once again takes pleasure in representing the faculty and student body of the Massachusetts Institute of Technology in welcoming its guests to its nineteenth Open House. At this Open House, exhibits from both the scholastic and the extracurricular side of Institute life will be shown.

The purpose of this Open House is threefold. First of all, the Institute, its faculty and students, are submitting their achievements to the public for their inspection and judgment. In recent years, M.I.T. has become very closely associated with many of the great developments of our age. Some of the most important changes in the history of mankind—some of which have already had far-reaching effects on the human race—will be shown at this Open House.

As has been mentioned in the past by President Killian, M.I.T. is now developing into a new kind of university. This university is, in its own way, much like the old German-English college, but rather than emphasizing "classical" education, the Institute is built upon the sciences. While M.I.T. takes no less interest in the humanities, and in the individual than any other institution, this interest is polarized around Technology.

In addition to this, the activities exhibits will serve as a reminder to both the public and the students that Tech is not all work. Only too often the extracurricular side of M.I.T. life is forgotten or neglected.

Finally, this Open House will serve to give any prospective Tech students a preview of M.I.T. life, both from a scholastic and a extracurricular point of view.

The times have also brought with them an increasing realization of the importance of the scientists' and the engineers' position in society and the importance of training men to fulfill their responsibilities to the nation. For this purpose the activities on campus are particularly important and it is to emphasize their part in the overall picture that the Open House includes them in the exhibits to be shown today. These exhibits bring out the fact that education at M.I.T. is not only technological, but also rounds out the character and personality of the student.

If just a few of these youths should choose the Institute for higher education, we would feel that one of the purposes of the Open House had been achieved.

As a reminder that the Institute is continually advancing forward, prospective plans for a new Student-Alumni building, drawn up by a fifth-year architecture student in cooperation with the Student Union Committee, will be shown to the public for the first time at the Open House. This building is envisioned as incorporating all undergraduate activities, as well as the alumni headquarters, in one central location. Tentative plans call for this building to form the north wall of the plaza which will contain the auditorium and the chapel.

On Wednesday, the Institute Committee approved the report of the Student Union Committee, and is now officially on record as supporting such a building.

There is no better way for the general public to become acquainted with the Institute and its functions than by attending this Open House. We might suggest that our visitors notice the fact that the embryonic scientists of M.I.T. are aware of the benefits of a full and complete existence.

through the mail

To the Editor of *The Tech*:
 Your editorial in the April 30 issue was tops. As was mentioned by a friend of mine recently, if we wanted to make real sure of losing no secrets, and guard to the limit on having no subversives working with restricted information, we should have no secrets, and no government scientists. One Senator is pushing us in that direction at a rapid rate.

This country is in a pretty bad condition, when we forget the rights which our constitution guarantees us as citizens. Freedom from fear and freedom of speech mean a lot to me, and when a man's future can be suddenly knocked out from under him by the mere act of a Senator pointing a finger of suspicion, I really wonder what this country is coming to. The old adage that a man is innocent until proven guilty has been lost now that mere suspicion can ruin a man.

If there were no expense involved in tightening up the security measures—if no one were unjustly injured, and the work didn't suffer, then there would be no objection to over-caution; but if this fad is allowed to run loose much longer, we soon won't have any secrets worth the Communists' interest—we won't have many good scientists working for the government, and those who are won't be able to accomplish much between the upsetting interruptions of committee hearings.

I believe that the best way to keep our country free and strong; to keep it under a government of the people's choice is to follow our constitution and literally hang any traitor who is planning the violent overthrow of our government, but that doesn't mean that citizens can't, in good faith to the best interests of our country, believe in any type of rule they may desire, and express themselves accordingly through their vote. Once this right is denied—once a man cannot believe as he sees fit—then all the anti-communist activity in the world cannot save us from the evils of "straight-jacket" government.

I believe that the best way to fight Communism is to fight it above ground; expose its lies, and show its faults; and then if people choose it of their own free will, that is their privilege under a truly democratic system.

As an American interested in protecting the rights guaranteed by the constitution, I advocate an anti-anti-Communist movement.

George Klein, '54

May 2, 1954

MILITARY DAY

Next Wednesday, May 12, has been declared Military Day at the Institute by James R. Killian Jr., President. At 3:55 p.m. all Freshman and Sophomore classes will be terminated for the day, and all Juniors and Seniors in R.O.T.C. will be excused from class. Military Day ceremonies will be held on Briggs Field starting at 4:00 p.m., with all students and staff members invited to attend.

Open House

(Continued from page 1)
 tance, for the visitor who comes for an overall picture of the Institute.

Varied Facilities

The purpose of the open house is primarily to acquaint the general public with the work and play of the M.I.T. family. The visitor will be surprised at the broad range of study at the Institute and with the size of our humanities and economics departments; he will find exhibits in everything from aerodynamics and acoustics to meteorology and military science; and he will probably raise a facetious eyebrow when he discovers the important place of athletic and extra-curricular activities in our daily life.

All these observations are, however, secondary lessons to be gained from Open House by the visitor. Most important is the realization of the importance and advanced technological research to the physical security and economic well-being of our nation, and the vital importance of M.I.T. in filling this national need.

THE IVORY TOWER

Acquaintance Dance

Let's go boys there is a dance at X . . . College tonight Yep lots of girls should be good come on we'll make out sharp tie combed hair MTA this is the place what 50 cents lets take a look first holy smoke nothing but BOYS lets go back ah come on its too late look there's a girl see ok here's my half buck check room hair combed again well good luck fellows see you later good hunting.

PIPE LINE TO THE INNER VOICE got to look indifferent and sophisticated my what a bunch of kids what is this a highschool or something my god what dogs never saw anything like it better take a look around excuse me excuse me excuse me hi joe any luck same here wow what a babe boy this is for me eh eh hum ex excuse me miss may I have this dance please thank you SILENCE better make some conversation my name is Z . . . and yours that's a pretty name do you go to school here what do you know yeah I'm a sophomore too yep old MIT do I look like a Harvard man ha ha SILENCE not very talkative this kid nothing special from close up anyway damn it why does she dance so far you could fit three guys in between us nice meeting you thank you eh! Gee what lousy music they play a bunch of mambo maniacs can't they play something civilized where are the refreshments one coke miss what only ROOT BEER who organized this dance anyway that's what you get for listening to your friends

oh well back to the 'oriental slave market cherchez la femme excuse me excuse me this is not bad with a fellow of course figures not so hot after all oh man dig this sweater this is for me excuse me may I have . . . my name is . . . pretty name . . . sophomore . . . the old line this kid is alright if she comes any closer we'll both be in her sweater I am not complaining oh no here comes a cutter will I excuse you surely I have no choice you damn fathead can't wait a couple of minutes look at her dancing real close to him bah women I'll ask her again next dance of course another MAMBO never mind I'll sit down for a while and look bored where are my matches excuse me miss have you got a light thanks what's your name mine is . . . what do you think of the dance yea not bad nothing exciting wanna dance man this kid is alright and brainy too yes I agree with you that Mozarts quintet in G has a definite baroque flavor what does baroque mean what last dance already how time flies with you care to join me for a cup of coffee some other time good eh eh what is the phone number o just call the college dorm ok nice meeting you I mean it good night.

* * * * *
 Check room meet the fellows had a good time yea pretty good . . . coffee . . . MTA . . . dorm . . . HECK what was her NAME again oh no I forgot what a waste of an evening never again I swear.

He Joe I hear there's a dance next week at Y . . . college lots of girls should be good come on we'll make out . . .

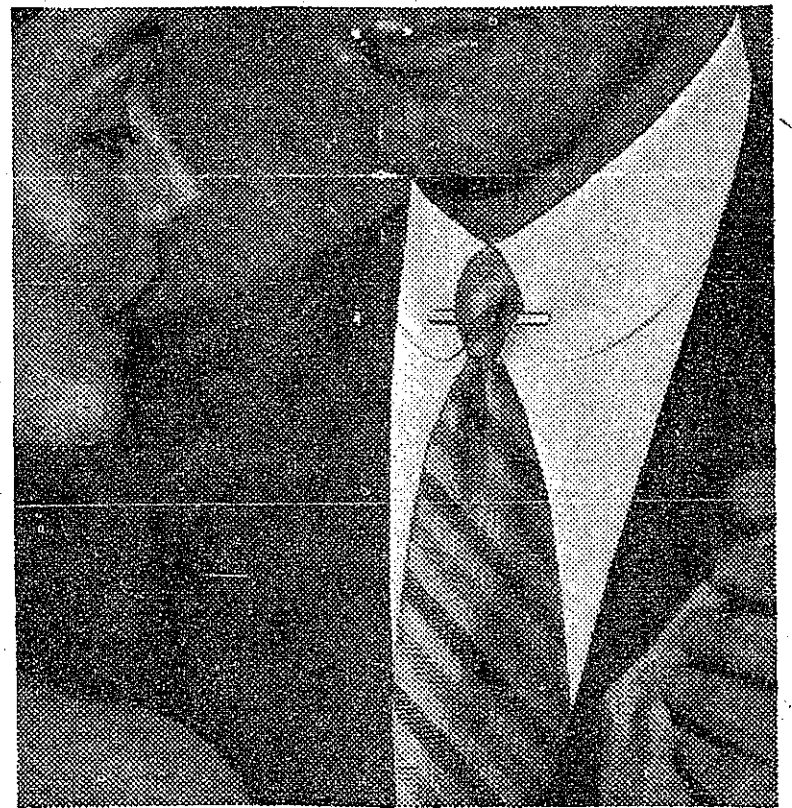
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TECHNOLOGY STORE

Departmental Activities Planned For Open House

Civil Engineering

The central exhibit in Civil and Sanitary Engineering, in Room 1-245, includes exhibits indicating the activities of the individual laboratories which will be in operation throughout Open House. The photogrammetry laboratory, 1-255, displays methods of obtaining surveying and engineering information from aerial photographs, with demonstrations of equipment which enables the map maker to transcribe the detail from photographs to maps.

The soil mechanics division operates a laboratory (1-333 and 1-334) with apparatus for determining the value of soils for supporting structures and for use as construction materials for dams, highways, and embankments. In the soil dynamics laboratory in Building 48, demonstration tests are being shown to determine the strength of soils subjected to high loads applied for only one or two thousandths of a second. Other studies are shown in the soil stabilization laboratory, 12-132.

Structures Lab

The structures division includes a structural analysis laboratory (1-235) where stresses on structures are determined by tests on models and by photoelastic analyses. The analysis of the dynamic behavior of structures and structural elements under static and dynamic loads is demonstrated in the Structural Dynamics Laboratory, 1-050.

The new Hydrodynamics Laboratory in Building 48 includes model studies of waves breaking on beaches, shock waves on objects moving faster than sound in air by means of similar waves in water, and other studies in the field of fluid mechanics.

Sanitary Engineering

The sanitary engineering division will show the operation of the Sanitary Bacteriology Laboratory, 1-063, the Sanitary Chemistry and Engineering Laboratory, 1-047, and its current activities in atomic energy research in 1-075.

Motion pictures of the construction of civil engineering projects will be shown in room 5-208.

Mechanical Engineering

Most of the Mechanical Engineering exhibits will be on the ground floor of building 3. However, since much of the equipment is too cumbersome to be moved, there will also be large exhibits in buildings 35 and 31.

The Machine Tool Laboratory in building 35 will exhibit tools in operation which will demonstrate various techniques in metal cutting and machining operations. Also to be demonstrated here are the measurements of cutting forces and temperatures, and the use of stroboscopic light and microscopic examination.

Engine Museum

The Sloan Automotive Laboratory, located in building 31, will exhibit its engine museum and engine testing facilities. Equipment for determining speed, power, efficiency, pressures, and temperatures of engines during actual operation will be shown.

Equipment used in the study of subsonic and supersonic flow of gases will be shown in the Gas Turbine Laboratory, also located in Building 31.

On the ground floor of Building 3, the Steam and Hydraulic Laboratory will have in operation equipment relating to the generation of power, engineering measurements, and applications of compressed air and hydraulic machinery, including pumps of various kinds.

Design Exhibits

Exhibits contributed by other divisions of the Department of Mechanical Engineering will also be set up on the first floor of Building 3. Creative design will be a feature of the exhibit of the division of Machine Design which includes dynamics and control of machines and analog computers to simulate and study conditions which may be encountered in practice. Mechanical properties of fibrous materials and the applications

of polarized light for studying them will be shown by the textile division. In addition, demonstrations representing some of the more recent developments in this field will be provided.

Working Models

The divisions of heat engineering and materials will present demonstrations dealing with thermodynamics, heat transfer, heat engines, the properties of engineering materials, the testing of engineering materials, and experimental stress analysis. Applied mechanics will be represented by a display of working models designed to illustrate dynamic, vibrational, and gyroscopic effects.

Metallurgy

At Tech, every phase of Metallurgy is studied and investigated. We hope that you will take advantage of Open House to see the facilities available and learn about one of the most promising young sciences. Exhibits and demonstrations will be conducted by the students and staff in buildings 8 and 35 on all floors.

Chemistry

As part of the Chemistry Department's contribution to Open House, the M.I.T. Chemical Society is presenting a show entitled "Chemical Magic." It will be presented in room 2-390 three times on Saturday afternoon, at 1:30, 3:30 and 5:30 p.m. The show will consist for the most part of a lecture and demonstration based on the most spectacular of the experiments performed in the freshman chemistry lectures. Each performance will be presented by two students, one acting as lecturer, and the second as demonstrator.

Many of the labs will be open for inspection, ranging from spectroscopy to polarography. Some of them, including Room 2-204, the analytical laboratory, will be in working condition with the students engaged in the normal laboratory work, and ready and eager to answer any questions.

Electrical Engineering

Cancer therapy and stroboscopic photography are just two themes for

exhibits by the Electrical Engineering Department. They are presenting many varied displays, demonstrations, and lectures which should be of general interest to everyone attending Open House.

High fidelity audio equipment, much of it student-made, is being demonstrated in 10-280. Here is an opportunity to see how some students spend their spare hours. Several different laboratories are showing what Electrical Engineering students do during class hours. Machinery and servomechanisms demonstrations will run all day in the Machinery Laboratory, 10-150. Techniques of electrical measurements will be shown in 10-425, while communications experiments are going on in 4-402, 4-405, and 4-410.

Strobe Exhibit

Professor Harold Edgerton's stroboscopic photography will be the subject of an illustrated lecture in 10-275, while exhibits of strobe equipment and pictures may be found in 10-150. The visitor may take high-speed flash pictures with his own camera in 4-103, if his camera can take time exposures.

Many of the research laboratories are presenting exhibits and demonstrations. The Research Laboratory of Electronics and the Dynamic Analysis and Control Laboratory are both open in Building 20, wings A, B, and D. Also in this building, is the Acoustics Laboratory in wing F. Cancer therapy and food sterilization with high-voltage x-rays may be seen in Building 28. Servomechanisms, including the automatic milling machine, are on display in Building 32.

Biology

During Open House the new fully operating laboratories of the Department of Biology in the Dorrance Building will be on display to the general public for the first time. On show will be a variety of exhibits and operating laboratories to illustrate current teaching and research in this Department in the areas of fundamental modern biology and biochemistry.

Tours will include visits to the laboratories of biophysical chemistry, which contain various equipment including the ultracentrifuge for studying the nature of proteins. The laboratories of microbiological chemistry will have a demonstration of the influence of various agents on microbes. Methods for the cultivation of animal

tissues in test tubes will also be demonstrated.

Tissue Shown

The electron microscopes will be on view and demonstrated with current items of research such as nerve, muscle and connective tissue. Other physical approaches to the solution of biological problems such as x-ray diffraction, instrumentation and spectroscopy will be on view. The new laboratories of biochemistry, including enzymology, with the most modern equipment for biochemical research, will be shown in operation.

Periodically during the day a film showing the mechanisms of digestion and circulation will be shown.

Physics

The Open House physics exhibit includes a demonstration of the various high energy machines, the synchrotron, the cyclotron, and the electrostatic generator. The principles of operation and applications of the machines will be discussed by students and staff members. In the Synchrotron Laboratory a special exhibit of cosmic ray photographs will be given. The Low Temperature Laboratory will show and explain current research.

Some experiments in the Junior Physics Laboratory will also be shown. They include demonstration of the behavior of an electronic beam in a magnetic field and a demonstration of some modern electronic measuring techniques. A special apparatus illustrates the absorption of microwaves in ammonia gas. The microwaves are amplitude-modulated so that the gas is made to oscillate and generate sound, which is made audible for the spectator. The effect made is quite striking inasmuch as the observer can obstruct the microwave beam with his hand.

The work in physics in the Research Laboratory of Electronics and the Acoustics Laboratory is included in separate exhibits by these labs.

Chemical Engineering

There will be seven exhibits by the Department of Chemical Engineering included in this year's Open House program. All the exhibits include operating equipment, some of which is being used for current research.

For those interested in combustion research in the field of jet propulsion, there are three exhibits in the new Fuels Research Laboratory. There is (Continued on page 4)

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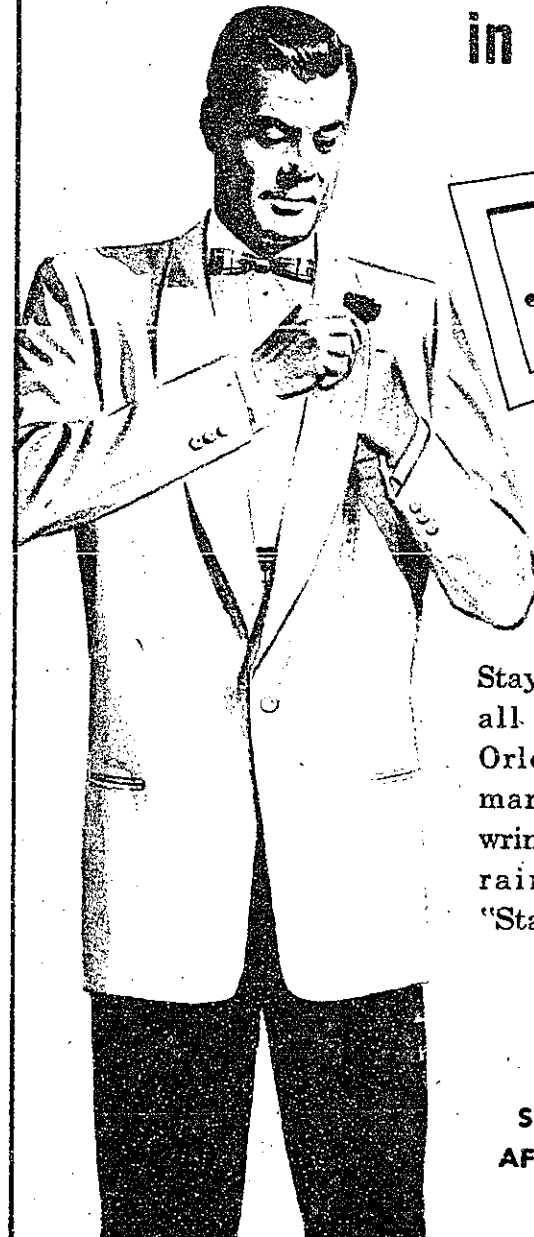
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Student Union Committee Submits Completed Reports

The approval by Inscomm at its meeting Wednesday of the completed Student Union report is a significant step forward in the progress of this project.

The preliminary plans for the center will be on display during Open House. They are part of the bachelor's thesis of Martin Cohen, '54.

In continuing the life of the committee for another year, Inscomm has for the first time formally recognized the need of the community for such a building, which would serve as "the focal point of campus life". For the first time, also, the Undergraduate Association will "actively support the committee in all their efforts to bring the construction of a Student Union Building closer to realization".

The Report of the Student Union committee is composed of seven sections. These include (1) an introduction to the reasons behind the necessity for such a unit and the functions it is hoped the center would perform (2) recommendations for the

Chemical Engineering

(Continued from page 3)

an apparatus for studying a jet flame in order to obtain fundamental information about the combustion process. Next is a demonstration of flame stabilization, a technique necessary in jet engines where the fuel-air mixture is passing through at high velocity. The most spectacular exhibit of the group will be the operation of a pulse jet engine.

Oil Operations

Fluidized bed being used in current research will be shown. The fluidized bed is a method of suspending fine solid particles in a moving stream of fluid, and finds great use in the oil refining industry. A bubble cap plate from a distilling column will also be demonstrated.

The formation of solid ground from mud, otherwise known as soil stabilization, will be demonstrated in the Soil Stabilization Laboratory. This demonstration will show the effects of small amounts of various chemicals on soil to produce hardness or alter water permeability. Mud pies will be made and tested for all interested parties.

Thesis Exhibits

The type of research problems tackled by undergraduates may be seen in the Senior Thesis Laboratory. Problems include work on ion-exchange, corrosion, and the utilization of industrial wastes. Thesis apparatus now being used will be shown in operation.

A scale model of the reactor at the Brookhaven National Laboratory will also be demonstrated. Lectures and demonstrations will be given periodically.

Marine Engineering Naval Architecture

The Department of Naval Architecture and Marine Engineering.

1. The Hart Nautical Museum located at the entrance to Building 5. Here the history of ship design both sail and steam is presented by one of the best collections of ship models in the country. The ship models range from the "Viking" ship to the modern superliners. In the extension to the museum, Room 5-022, large engine room models, a large plastic "Victory Ship" model, and other ship models will be on display.

2. At the "Propeller Tunnel" in Room 3-269, visitors will have the opportunity to observe a model of a ship's propeller in action. Vapor pockets and vapor trails in the water due to high speed of the pro-

allocation of activity space social and recreational area, and commercial space in the building (3) an enumeration of areas for possible future study (4) the progress report of the committee, which was submitted to Inscomm in February (5) and the Committee's recommendations for action to be taken in the next phases of its program.

The main concentration of effort for the Committee during the next year will be in the field of publicity. The Committee will encourage the interest of students, administration and alumni "with the intention of developing positive action toward obtaining a building." Another important field to be examined is methods of raising funds to finance this construction.

3. In the Ship Model Towing Tank located in the basement of Building 48, a ship model will move through calm water and then through waves. One can compare the motion of the ship as it glides gracefully through the calm water with the violent pitching and heaving of the vessel as it runs into waves. The visitor will also have the opportunity to observe the special electric devices used to measure the performance of the ship model.

4. In Room 5-217, the educational process in the study of Naval Archi-

ture and Marine Engineering at M.I.T. will be demonstrated. Here the visitor may observe and discuss the type of work and study which prepares the student professionally for the design and construction of your ships.

Economics and Engineering

The Economics and Social Science Department invites guests of the Institute to see, through the use of films, some of the major problems with which social scientists are grappling in a technologically-advanced country such as ours. Problems of maintaining high productivity, promoting closer working relationships between management and labor, and developing new trade channels are the subjects of some of these films.

Showings will be at 1:00, 3:00 and 5:00 p.m. in the Projection Room, in the basement of Hayden Library (Building 14). Students from the Economics and Engineering Course will be available throughout the showings to answer questions about this new experiment in engineering education.

Industrial Management

The Open House display for the School of Industrial Management will contain many displays and models. The room for these displays is 8-119, at the extreme end of the main corridor. There will be presented in graphic form the answers to these questions; just what does an undergraduate student do in Industrial Management, and where does he go when he leaves the Institute?

Some marketing students will conduct a market survey in which everyone will be asked to participate. Work simplification techniques will be shown by the use of a peg board, showing how even a simple task may

be speeded up by applying scientific methods. Some student projects in finance will also be illustrated. A twenty minute film on business education will be shown at 2:00, 4:00, and 6:00 p.m.

Aeronautical Engineering

This year the Aeronautical Engineering Department is programming an elaborate group of displays for Open House. In addition to the combined efforts of the Wright Brothers Wind Tunnel and the Aeroelastic Laboratory in the blowdown wind tunnel, there will be demonstrations in the flutter, structures, and shock-tube laboratories. Also, a supersonic flutter model will be vibrated on electromagnetic shakers in the blowdown wind tunnel between runs.

On the first floor of building 38 can be found the Flutter Laboratory. Here vibration tests on a typical flutter model will be demonstrated using air-jet shaker equipment. Also, flutter tests will be conducted on a model in the low speed flutter tunnel every hour on the hour, from 1:00 to 6:00 p.m. Personnel will be present to give short talks and to answer questions.

Furnace Shown

The furnace used for thermal stress study will be demonstrated in the basement of Building 33, where the Structures Laboratory is located, every hour on the half hour, from 1:30 to 6:30 p.m. This facility is capable of producing temperatures up to 3000° Fahrenheit. Personnel will give talks and answer questions.

In Building 41, on the second floor, visitors may see the Shock Tube Laboratory. The shock tube is a hollow tube, 96 feet long, which is separated into two chambers by means of a fragile diaphragm. To generate shocks, one chamber is pressurized and the

diaphragm is punctured. Demonstrations and talks will be given.

Shock Waves

There will be found at building 17A a shock wave demonstration in the trans-sonic test section and movies of high speed flutter and shock waves, in color and black and white. Short talks will accompany these exhibits, with views of the test section and flutter modes on some aeroelastic wings provided by R.C.A. iconoscope and television equipment. The plan is to run supersonic shock wave demonstrations every half hour. In order to allow as large a group as possible to view the demonstration, a large tent will be erected outside of Building 17A. Three 21-inch TV sets will be placed near the doorway of Building 17A but inside the tent enclosure, to permit viewing of the television screens under reduced lighting conditions.

Instrument Lab

The flight instruments and research instrumentation used in high speed flight research will be displayed in Room 33-218, the Instruments Laboratory. Demonstrations of gyroscopic instruments, analog computers, and a missile model will be given.

There will be shown in Room 33-204, for those who are interested, movies of the breaking of the world's speed record by the Douglas Skyray. Movies will also be shown by the Flying Club about their activities. In addition, the Glider Club will have their glider on display in the parking lot.

Building Engineering

The building construction industry is a major factor in the American economy, amounting to some \$20 billion a year. The industry requires a continuous flow of new and ever

(Continued on page 6)



What makes a Lucky taste better?

"IT'S TOASTED" to taste better!

WHY do thousands of college smokers from coast to coast prefer Luckies to all other brands?

BECAUSE Luckies taste better.

WHY do Luckies taste better?

BECAUSE Lucky Strike means fine tobacco. And that tobacco is *toasted* to taste better. "It's *Toasted*"—the famous Lucky Strike process—brings fine tobacco to its peak of flavor... tones up this light, mild, good-tasting tobacco to make it taste even better—cleaner, fresher, smoother.

SO, Be Happy—Go Lucky. Enjoy the better-tasting cigarette—Lucky Strike.



LUCKIES TASTE BETTER Cleaner, Fresher, Smoother!

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Authorized and approved literature on Christian Science may be read or obtained.

Pershing Rifles Initiates Pledges On Monday Night

Thirty men from the Institute's Pershing Rifles Company C participated in a Regimental Drill Meet last Saturday in New York City. The group took third place in competition with similar groups from 15 other universities from the New England area.

Future activities of this Company include marching as a unit on Military Day next Wednesday, and the initiation of nineteen new members on Monday. The initiates of the Company, all of whom are freshmen, have successfully completed a six-week pledge program and will increase the total membership to 77. Men to be initiated are: David A. Appling, Ralph E. Batera, Otis F. Bryan, Franklin K. H. Ching, Robert D. Doleman, Gilbert G. Fryklund, Kenneth L. Harrison, William C. Hees, Richard M. Hirata, Lennart A. Johnson, Carl F. Keller, Deane H. Kihara, Norman C. Lerner, David J. Rees, W. Peter Schmidt, Herman C. L. Signorelli, Peter W. Sinz, Frank G. Tahmoush, and Ernest N. Wasserman.

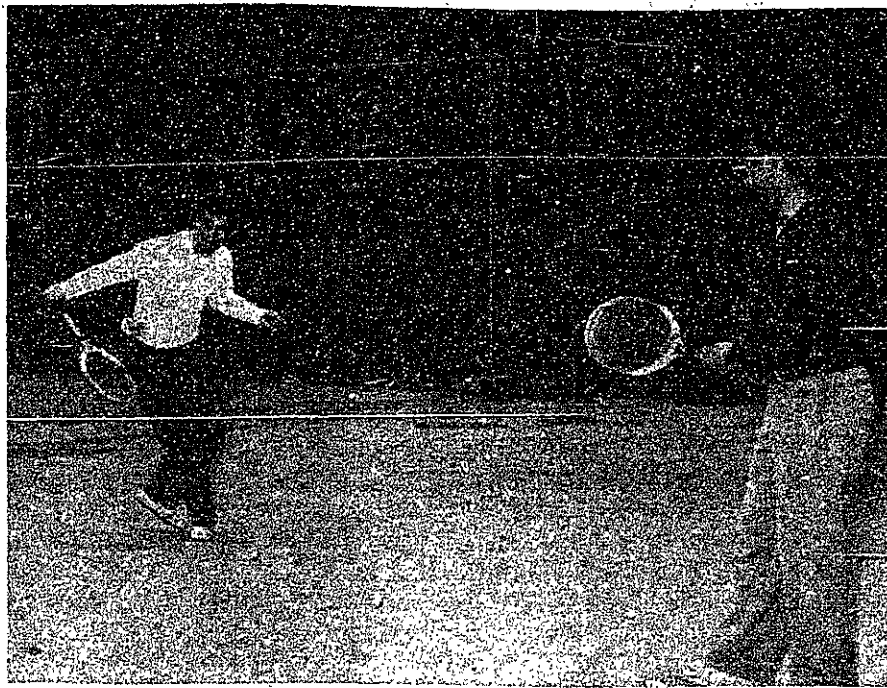


Photo by Gallagher
Some fast action on the new tennis court.

Tennis Team Wins Over B.U. Defeated By Favored Brown

Failure to win more than one singles match cost the Tech netmen a victory over favored Brown University. Playing before a large spring house-party weekend crowd, the Beavers dropped a tight 5-4 decision as only Dick Lane '54 could take his singles match. The outstanding feature of the match from the Tech standpoint was the excellent play of the three M.I.T.

Concert Band Will Play On Esplanade Sunday Afternoon Thirty Are Named As Beaver Key New Members

The second performance anywhere of an original march by an Institute sophomore will be a feature of this year's annual concert by the Concert Band in the Hatch Memorial Shell on the Esplanade this Sunday afternoon, May 9.

"Marche Baroque" by Andrew F. Kazdin '56, the Concert Band's tympanist, will be included in the program for the second half of the concert. Other works on the program include those of Gustav Holst, John Philip Sousa, Ottorino Respighi, and Claude Debussy.

The performance by this 50-piece band will begin at 2:30 p.m. on Sunday afternoon, under the baton of John Corley. Sunday's concert marks the fifth year of this annual series of outdoor presentations at the Hatch Shell.

Beaver Key Society has announced the election of next year's members. They are all sophomores who have contributed to athletics and activities at the Institute.

The list includes John Morefield, Jack Saloma, Fred Culick, Gordon Bell, Tom Blood, John Hirschi, Ben Lightfoot, and George Luhrman.

Also included are Jack Merkl, Bill Northfield, Bob Sawyer, Gus Schwartz, Alex Aitken, Byron Blanchard, Pete Dyke, Joe Hamlet, Martin Jacobs, and Sven Vaule.

Ray Smith, Charlie Bacon, Phil Bryden, Bob Biehl, Adolph Hansen, Mike Tym, J. E. Davis, Quinn Solem, Tom Comparato, and Dave Palamoun-tain complete the roster.

The function of the Society is to play host to visiting athletic teams and promote athletics at the Institute.

double teams. John Melavas '54 and Bruce Backe '54, Rene de Leon '56 and Al Hahn '56, and Paul Goldin '54 and Larry Moss '56, contributed three wins to the Tech total as they whipped the top three Brown duos in three sets each. The irony of these doubles victories is shown by the fact that in every case, the doubles teams defeated the very players they had lost to in singles.

Lane, playing in the number five position, finally played the kind of tennis he is capable of. Relying on his big serve and a fine net game, Lane completely crushed his opponent 6-3, 6-3. Unfortunately, none of his teammates could come through with the win needed to turn the tide.

The Tech netmen braved an icy wind and occasional showers to crush crosstown rival Boston University 7-2 at the Walker Memorial courts. The Beavers clinched the match by taking five of the six singles matches.

Captain John Melavas '54 led the Summersmen to their third victory of the season by taking a 6-4, 8-6 victory from BU's number one man. It

was an uphill battle all the way for Melavas, as he rallied in both sets to nail down the decision.

Al Hahn '56 and Rene de Leon '56 had absolutely no trouble at all as they blasted out easy decisions over their opponents. Both men relied heavily on a strong net game to score their points.

The final two singles wins were contributed by Dick Lane '54 and Paul Goldin '54. Goldin took an easy 6-2, 6-2 win while Lane dropped the first set before warming up and taking the next two.

The Tech duos of Don Steig '55 and Bish Parmar '56, and de Leon and Hahn added two more points to the Tech total by taking a pair of doubles matches. Neither pair had any trouble except from the wind and the approaching darkness.

Today the racketmen journey to Troy and Williamstown to take on RPI and Williams College. The netmen should take RPI but will have their work cut out for them against a powerful Williams team.

Meet Mr and Mrs. Jack Sprat:
He's skinny and she is quite fat.
Though year after year
They've drunk the same beer,
Their weights haven't changed—how 'bout that?

(Of course, they haven't changed! No one brand of beer can make you slim — or make you fat — all by itself. The one big difference in beers today is flavor, and flavor has no calories. So don't be fooled by fancy claims about calories and sugar and such.* Look for flavor... drink the beer that's brewed for enjoyment — Schaefer.)

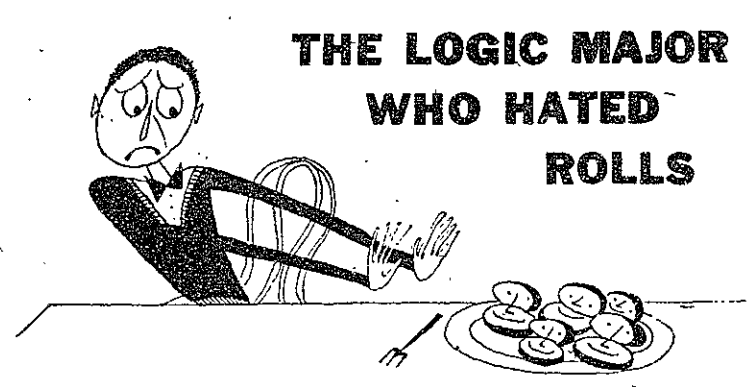
Folks who drink for enjoyment prefer *real beer!*



*The U. S. Government says:
"Analyses of beer samples have shown that the sugar content varied so little, amounting in no instance to more than a negligible trace, as to have no appreciable effect on the caloric content."
(OWIGHT E. AVIS, HEAD OF THE ALCOHOL AND TOBACCO TAX DIVISION, U. S. TREASURY)

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Recently a young mid-westerner enrolled at a university as a Logic major. His father had told him, with some understatement, that he was illogical. He refused to squire a pretty girl to a dance because her name was June Betz and he was against gambling.

He wouldn't eat avocados because they were also called "alligator pears" and he didn't like alligators.

In addition, he was a slob.

Some of the men in his dorm tried to talk to him.

"Look at that shirt," they said. "The material's cheesy. Why don't you hop down and get a Van Heusen Oxfordian... it's soft, fine oxford cloth."

"I'm not attending Oxford. I'm attending Old Siwash," answered our boy.

"But, look, Buster. This oxford cloth is woven tighter so it'll last longer. It's a smart investment. And it only costs \$4.50."

"So who needs it? I might get hit by a truck. Then what good would it be?" quoth Buster.

"What about your collar? Flat as a pancake! Don't you want a good-looking button-down with that famous Van Heusen relaxed-roll?" one asked.

"I got nothing against pancakes. I hate rolls."

Note: Our man flunked Logic post haste, and was drafted. The Army has him classified under "Secret Weapons"

Departments

(Continued from page 4). progressive leadership.

The Open House provides an opportunity to exhibit some of the latest materials, equipment, and techniques of construction in regard to building construction and by means of demonstrations and displays of class exercises it can be seen how the Course curriculum is adapted to this industry.

Varied Exhibits

More than 60 exhibits of materials, equipment, class exercises, laboratory techniques and films in connection with dwelling houses, semi-fireproof and fireproof buildings will be accessible to visitors.

Building Engineering and Construct Films on the steel erection for the U. N. building, gypsum, and "dry-wall" construction, will be shown in Room 5-208, almost continuous from 2:00 to 6:00 p.m., combined with Course I films.

Also, interested parties can find some 25 exhibits of materials, equipment, and methods of construction in connection with the dwelling house plus displays of class exercises related to this field, in Room 5-233.

Fireproofing

There will be shown some 25 exhibits of materials, equipment, and methods of construction in connection with semi-fireproof and fireproof buildings plus displays of class exercises and problems related to this field, in Rooms 5-234 and 5-212. Included will be a model of the new auditorium, displays on glass reinforced plastic beams and laminates, and a demonstration showing a method of making plastics.

Concrete Tests

Numerous tests on cementitious units, including a display showing the equipment and techniques for prestressing concrete and the equipment used in a concrete laboratory will be set up in Room 5-014, along with a display of class exercises and problems related to masonry materials and concrete design tests will be performed hourly.

Exhibits on building construction courses and future employment, as well as the organization and function of the only Junior Chapter of the Associated General Contractors of America, will be presented in Room 5-233.

Meteorology

The Open House exhibition sponsored by Meteorology students this year is intended to emphasize the breadth and depth of this science in order to give better balance to the common view of Meteorology, as identical with weather forecasting. The forecast problem does remain a central one, of course, and the routine of a weather forecast can be followed by this year's exhibits from receipt of the latest data on the teletypewriters, through the plotting and analysis of various charts, to the actual construction of a forecast. The application of high-speed computing machinery is also illustrated.

Varied Problems

However, other exhibits show a very different sort of scientific activity. Applied, or industrial, meteorology is new and a rapidly expanding field in which pioneer work is being done at the Institute. Although relatively re-

cent in development, radar is an accepted tool of research in various phases of meteorology, and visitors may observe its operation. Both highly theoretical and highly practical aspects of the science are involved in the study of water drops suspended in the air as cloud or fog. At the other end of the scale, world-wide patterns of weather development are reproduced in miniature in rotating-tank model experiments.

Certain problems are, of course, not amenable to laboratory treatment, and color motion-picture films show these phenomena and their field investigation. Many of the above research efforts have received recent newspaper publicity, but Open House will give visitors an opportunity to see for themselves a cross-section of modern Meteorology as taught and studied at the Institute.

Food Technology

The Department of Food Technology at the Massachusetts Institute of Technology is located in the new "skyscraper" on the MIT Campus—the John Thompson Dorrance Building. In this building are housed the most modern facilities for training students to become skilled in the science, arts, and techniques of food technology. With this training they can take their places in the big, vital food industry as technical men capable of becoming executives and leaders in this field.

The facilities and some of the results obtained in the research fields being investigated in MIT's Depart-

Another Exam For Deferment To Be Given May 20th

In order that the Selective Service Qualification Test may be available to registrants who, for reasons beyond their control, were unable to take the regularly scheduled tests on November 19, 1953, and April 22, 1954, the Director of Selective Service has arranged for a special test to be given on Thursday, May 20, 1954.

The College Qualification Test Tickets of Admission issued for the tests of November 19, 1953, and April 22, 1954, will not be honored for admission to the special test on May 20, 1954. Applicants will be issued a new ticket of admission and the old ticket may be destroyed.

Applications for the test postmarked later than May 10, 1954, will not be accepted. Applications may be obtained in the Headquarters of the Advisory Committee on Selective and Military Service—Room 14-S136.

ment of Food Technology will be demonstrated at OPEN HOUSE by students of the Department. Topics of interest will include: The food research of today The feeding of America tomorrow Milk processing Frozen orange juice Peacetime use of atomic energy "Cold" sterilization with radioactive isotopes

Inscomm

(Continued from page 1)

letics, and decided to finance the A. A. in a lump sum payment in September rather than by piecemeal payments.

At the request of the Finance Board, Inscomm moved to impose a \$5 fine for overdue financial statements from activities. The committee investigating fraternity discrimination submitted for approval a copy of the letter on the discrimination situation which all incoming freshmen will receive when they arrive at the Institute for rush week.

President Eldon H. Reiley '55 named Robert Temple '55 to head the All Tech dance committee which was authorized to sign a contract with the Sheraton Plaza for a ball-room for next year.

Mal Jones '57 moved that a committee be formed to design a MIT tie, and that the Baton Soc. determine our alma mater. Both groups will cooperate with the alumni.

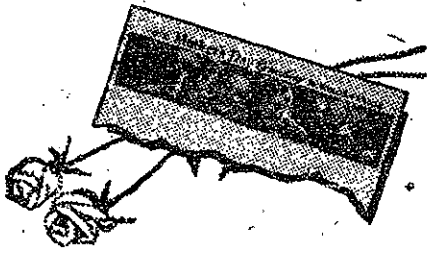
Inscomm's next meeting will be next week, 5:00 to 6:30 on May 12. The Committee has been invited to dine with President and Mrs. Killian following the meeting.

DAS MARIENLEBEN

At a regular meeting of the Mu42 class, Phyllis Curtin, soprano, and Gregory Tucker, pianist, will present "Das Marienleben," a song cycle by Hindemith on poems of Rilke, in the Hayden Music Library at 5:00 p.m. next Monday, May 10. The public is invited to attend, and no tickets are required.

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On any occasion it's wise to wire

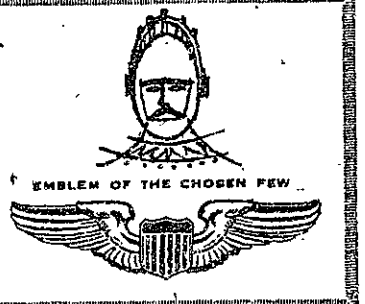
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America's Knights of the Sky...

The Spartan Band that held the pass, The Knights of Arthur's train The Light Brigade that charged the guns, Across the battle plain Can claim no greater glory than The dedicated few Who wear the Wings of Silver ... on a field of Air Force Blue.



For Fellowship...High Adventure...and a Proud Mission...

wear the wings of the U. S. Air Force!

In days gone by, young men in shining armor ruled the age. Today, a new kind of man rules the age—America's Knights of the Sky, the Air Force Pilots! They rule from on high, in flashing silver-winged Air Force jets... a gallant band that all America looks up to! Like the Knights of old, they are few in number, but they represent their Nation's greatest strength. If you are single, between the ages of 19 and 26½, you can join this select flying team and serve with the finest. You will be given the best jet training in the world, and

graduate as an Air Force Lieutenant earning \$5,000 a year. Your silver wings will mark you as one of the chosen few who ride the skies in Air Force jets.

As an Air Force pilot, your kingdom is space—a jet is your charger and your mission is the highest. You are a key defender of the American faith, with a guaranteed future both in military and commercial aviation.

Join America's Knights of the Sky, new men of a new age. Bean Aviation Cadet! For further information, fill out this coupon.

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