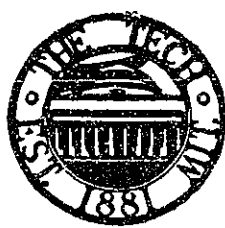


The Tech



OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXV. NO. 2

CAMBRIDGE, MASSACHUSETTS, FRIDAY, FEBRUARY 11, 1955

5 CENTS

Inscomm Studies Finances, All-Tech Dance Reports Sales, New Sub-Committee Created

The report of the All-Tech Dance Committee was presented at the last meeting of Institute Committee held in Litchfield Lounge Wednesday night February 9. The committee reported a sale of about 150 tickets at the close of Tuesday's business day. Mention was made of the ticket booth in Building 10, the doorknob publicity campaign, and the latest in the committee's education program, a descent on Westgate to convince the Westgaters that All-Tech means all the Institute community.

President Eldon Reiley '55 made mention of the fact that if the dance loses money, it will put this year's Inscomm heavily in the red financially. This year's Inscomm inherited a deficit of about 750 dollars, and after clearing up these debts and covering operating costs Institute Committee has a very small surplus. This surplus is not sufficient to cover the losses usually acquired due to Senior Week and definitely not enough to cover any losses sustained by the All-Tech Dance, should the affair lose money.

A motion to create a new sub-committee of Inscomm was passed. The new committee, to be known as the IPC, will deal with the problems encountered by foreign students at the Institute. It will also be in charge of the summer exchange project. There was some debate about whether or not the new committee should be a permanent sub-committee of Inscomm, or whether it should remain without status until its constitution is complete. It was decided that the IPC would be a standing (permanent) sub-committee, in order that the chairman of the committee sit on Inscomm.

Another important motion discussed was one to oppose the stand of the National Student Association on the recently established national policy of terminating educational benefits to young men whose schooling has been interrupted by military service. The NSA has come out four square and in loud tones against this new national policy. Inscomm defeated the above motion, not because they were either

(Continued on page 4)

Auditorium Now Near Completion; Ready For Use

M.I.T.'s new and distinctive auditorium is now ready for use although finishing touches are still being applied to the inside and the outside will not be completed until later this spring.

The auditorium seats 1238 people, with a stage large enough to accommodate 250 musicians. To the left of the stage is a choir loft with space for 75 singers and to the right is an organ loft. Backs of seats in the auditorium present an interesting picture, numerous shades of green, blue, and orchid being randomly arranged. The acoustics of the building are reputed to be excellent and there is an abundance of "built-in" television facilities. As many as six T.V. cameras can be used at one time.

Below the main auditorium is a small theater. This seats 214 and has arrangements for television broadcasting. It will be used mostly for chamber music, conferences, and intimate dramatic productions. In the basement there are two rehearsal halls for band and orchestra which can also be used for radio and television studios.

Application blanks for the reservation of the auditorium and theater

(Continued on page 8)

Freshmen Convocation Monday; Stratton, Stafford, Dahl To Talk

Next Monday, February 14, at 10:00 a.m., in the Kresge Auditorium, there will be a convocation for all freshmen. It is the first event of the program to familiarize them with the Institute's 21 courses of study and the careers for which the student is prepared. All freshman classes have been cancelled during this hour.

Provost Julius A. Stratton will speak on the relations between science and engineering. The purpose of this talk is, in part, to clear up any misconceptions freshmen may have espoused regarding the differences between these fields. Prof. Eugene W. Boehue, in charge of Course VI-A, will discuss cooperative courses. These courses are advantageous in many ways to students of engineering. Associate Placement Officer Philip A. Stoddard will consider the relation between course selection and placement.

The convocation will be closed by Prof. Charles Blake who will answer some general questions about course selection and placement. Prof. Norman C. Dahl, chairman of the Freshman Advisory Council which is sponsoring the program, will preside.

Purposes of Project

The purpose of the convocation, as well as the entire project, including lectures, tours, and open houses, is to answer typical questions about the courses and careers. Among other things, the convocation talks will suggest to freshmen how to select a course and what to keep in mind while doing so.

To provide additional information, a list of readings, covering all of the Institute's courses, will be distributed at the convocation. Also, detailed reading lists for specific careers and courses will soon be available in divisional libraries and the General Library reference department.

The importance of the convocation and the other meetings cannot be overemphasized. No matter how sure a freshman may be as to which course he will enter, the program will be helpful to him, as it is certain to clarify many considerations and introduce aspects which he has not considered.

Selection Cards

Since it is important that the freshmen

(Continued on page 7)

Grants Now Listed For Student Use In Hayden Library

One of the many useful services offered to students by the Hayden Library is a current listing of fellowships, scholarships, assistantships, and grants available at American and foreign institutions. This service was inaugurated four weeks ago, and it is available for use by any students who are interested in undertaking graduate work.

The file is located in the Reference Department of the library on the second floor of the south wing. The information on the fellowships, scholarships, etc. is filed under its appropriate subject and also under its particular name and school. A student may look in a catalogue under a subject such as chemistry and find numbers referring to files containing the information on the awards for this particular subject. If the award is known by name, it can also be easily and quickly found by the library's system of filing.

These files have been established for the purpose of providing a central source of organized information available to students interested in obtaining awards while doing graduate work. The idea has been developed in co-operation with the Dean of the Graduate School. These files constitute the most complete files of such data in one place at M.I.T.

There is also information in the reference department of the library describing in general terms fellowships and grants available at schools all over the world. An index of awards, fellowships, and grants given in previous years is also available. A chart showing the deadlines for submitting applications for such awards has also been provided for students' use. There are also college catalogues from the major universities of the world.

Frosh Plan Dance, Student Union To Receive Profits

The Class of 1958 has adopted the Student-Alumni Center as its class project. As its first step toward raising funds for the center the class has scheduled a semi-formal dance to be held on March 11, in the Dorothy Quincy Suite of the John Hancock Building. The music will be supplied by Hal Reeves and his ten-piece orchestra.

The class hopes to focus attention on the student union by holding similar events during its four-year stay at the Institute. The money acquired from such projects will be used as a token donation toward the construction of the Student-Alumni Center for M.I.T.

As to the dance itself, \$2.50 will admit one couple, doors open at eight, and the affair terminates at midnight.

TECH LITERARY SUPPLEMENT

"The incurable itch of writing possesses many."

Juvenal, *Satire VII.*

Have you the itch? We may be able to supply a cure. The Tech Literary Supplement is now accepting material for this term's issue. Poetry, short stories or critical essays will all be given careful consideration. Send your manuscripts to the Offices of The Tech, Room 020, Walker Memorial.

New Clock Uses Cesium Atom To Remain Accurate

Development of an atomic "clock," the Cesium Atomic Frequency Standard, which is fantastically accurate, was announced by Dr. Jerrold R. Zacharias, director of the Laboratory for Nuclear Science at the Institute. He is now working on a model so precise that had it been ticking away since the time of Christ it would now be only one-half second "wrong."

The primary purpose in developing the apparatus, according to the physicist, was to build a tool for scientific research. He expects to employ it, for example, in a test of Einstein's General Theory of Relativity, by which it is supposed that gravity would cause two clocks, one on top of a mountain and one at the foot, to vary in time-keeping. He hopes to undertake such a test next year, he said, perhaps on the Jungfrau in Switzerland, where the mountaintop is easily accessible and can be seen from the foot.

Oscillations Keep Time

Time-keeping in the device is controlled by the oscillation of electrons in the cesium atom, just as a pendulum controls it in an old-fashioned clock or a balance wheel controls it in a watch. As an electron revolves around the nucleus of an atom, it "wobbles" very slightly but at a constant rate. This unvarying rate of oscillation is reflected in the frequency of waves that are emitted.

Cesium is an element, one of an atomic group that includes sodium and potassium, which has a frequency of approximately 9192.632 megacycles per second, and it is this frequency that serves as the unit of time in the atomic clock.

One one-hundredth of a gram of cesium, about the size of a pinhead, is enclosed in a metal crucible. Under heat, about that of boiling water, the cesium shoots a stream of atoms through a hole in the crucible. The atoms strike a detector screen and their frequency is reported through complex apparatus.

The cesium emits atoms at a rate of about one million per second, but the loss is only about one-millionth of a gram per day and, for all practical purposes, is negligible.

(Continued on page 7)

Institute Announces Plans For Course XXI, Class Of '58 First To Integrate Humanities

Establishment of a new type of "double major" course at the Institute, starting with the class of '58, received unanimous approval of the faculty at a recent meeting. Known as Course XXI, it will combine studies in science or engineering with those in humanities and social sciences.

Each student will select one of the technical courses as his "secondary major," and will spend about 60% of his time on technical subjects, reserving about 40% for courses in humanities and social studies. This program leads, in four years, to a B.S. in Humanities and Technology; those who so desire may earn a second B.S., in their elected technical field, at the end of the fifth year.

Not Liberal Arts

The chief purpose of the course, according to Dr. John E. Burchard, dean of the School of Humanities and Social Studies, will be to provide broad preparation for further graduate work in science, medicine, law, industry, or other fields, or for non-professional careers starting immediately after graduation. For instance, it can supply sound background for a lawyer specializing in scientific or industrial cases.

This course will be given under the department of Humanities and will be

directed by John M. Blum, associate professor of history. Professor Blum emphasized that this should not be mistaken for a liberal arts course; it combines a majority of the usual rigorous technical subjects with several courses specially designed to correlate these studies with various subjects from the field of humanities.

New Frosh Electives

Freshmen in Course XXI will follow the regular first-year curriculum, although two new subjects, designed basically to fit in with Course XXI, will be added to the list of freshman electives. One of these will deal with logic and the scientific method, while the other will consider the significance of science and technology on American character. It was stressed that these courses are purely elective, and will be available to the entire freshman class.

In the sophomore year students will follow the program of their chosen technical field with but one exception. In place of one technical subject each term they will be required to take courses either in Economics (14.01 and 14.02) or in Literature (E31 and E32).

Three Options Offered

As upperclassmen, they will have to select one of three options within Course XXI in which to specialize.

They may choose to consider either American industrial society or political thought and institutions or the history and significance of scientific, philosophical and esthetic ideas. In each of these areas the content of the diverse semester subjects will be such as to permit a student in his senior year to engage in seminar and research work designed to achieve an integration of his technical and non-technical learning.

Upperclassmen will take a total of twelve semesters of non-technical subjects. Their senior project will generally be a thesis combining the approach of engineering or science with those of political science, philosophy or other relevant areas of learning.

Courses Open To All

With the exception of the seminars, all of the new courses will be available to the entire student body, regardless of major. However it was stressed that they will be given for the first time for the Class of '58, and therefore it will be impossible for members of earlier classes to transfer to Course XXI.

Those freshmen who are interested in enrolling in Course XXI should contact Professor Blum in Room 14-N318 for further information.

The Tech

VOL. LXXV

Friday, February 11, 1955

No. 2

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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.

Editorials

SENIOR RINGS—HOW TO MISHANDLE \$20,000

Each year a Ring Committee is given the difficult task of awarding the senior ring contract, worth some \$15,000 to \$20,000. In this important task they are aided by no regulations or recommendations of their class or of Institute Committee. There is no continuity in standard or methods of selection from year to year, no records of past transactions are on file.

In an effort to succeed in what has long been known as a cut-throat business, the major competitors annually wine and dine the members of the ring committee at the Ritz-Carlton and the Red Coach Grille. The manufacturers furnish free rings to the chairman and—this year—to the rest of the six-man committee. Expense-paid trips to the company plants, whether in Attleboro or Indianapolis, furnish fall diversion for the chairman.

The total cost of these generous treatments amounts to at least \$400 at the estimate of the present Ring Chairman, Richard A. Jacobs '56. The price of our rings is, you may be sure, composed of these items as well as the cost of gold and labor.

Opportunities for dishonesty are enormous when, for example, bids are opened as they arrive in a manner which permits anyone to report the offer of one company to a competitor for personal benefit.

We do not know what has occurred in the past. We shudder at the possible worst, and hope for the best. But an Institute Committee which wishes to create a record of accomplishment must attempt to establish corrective policies. Selected on the basis of artistic design and quality of workmanship, this year's ring costs 35% more than the same model last year. The establishment of permanent standards of metallurgy, art and price and the establishment of an order of importance of these items will serve to either justify or prevent selection of the most expensive manufacturer as occurred this year. Similarly, prohibition of trips, gifts, and dinners, compilation of complete public records, and a revised bidding system will serve to clarify a very messy situation—messy for those who must choose a contractor, but messier yet for those who must pay.

BAD FAITH ON COMMONS—THE GREAT TREK

It was a long, hard pull, but after months of negotiation, the Commons Committee managed to extract the promise of the Dining Service that they would try to eliminate the shifting of Graduate House Commons to Walker Memorial. Burton House rejoiced. A great victory had been won, a crushing defeat delivered to the shoe leather industry and orthopedic associations, the only groups who could benefit from these preposterous maneuvers.

Result a few short months later: one transferral completed already, and another Great Trek scheduled for next week. We must assume that Burton has been cuckolded. If this is not so, then perhaps the Dining Service will publish a list of "previous commitments" to prepare the unhappy marchers and obviate any other recurrences of this unfortunate situation.

TAKING THE ROLL

Members of student government often have cause to decry the apathy of their constituents toward student government affairs. Some members of Institute Committee, however, are apparently intent upon proving that their attitudes are just as apathetic as anyone else's. The two representatives from the Class of 1958 are perhaps the most flagrant recent violators.

Institute Committee is presently entertaining motions to enforce attendance at its meetings, with failure to attend resulting in loss of the offender's seat. Although one such motion was defeated Wednesday, we are hopeful that Inscomm will spend some time in the near future in an effort to fill the gaps in its ranks—with wayward officers or with some replacements more adequate to their positions.

through the mail

To the Editor of *The Tech*.

Dear Sir:

"Due to previous commitment, Commons meals will be served in Walker Memorial on Thursday evening, Feb. 10 from 5 to 7 p.m."

Again this week, the residents of Burton House were met with these familiar words. Seven times during the last term, the residents of Burton House were required to walk the complete length of the M.I.T. campus to receive their evening commons meal. Even under ordinary conditions, those who live in Burton have considerably further to go to receive commons meals than those living in other dormitories. I do not believe these fellows mind too much the "ordinary conditions", but they do strongly object to the discourteous and tactless arrangement as is forced on them periodically. It would seem that those scheduling such "commitments" would feel some obligation to those taking Graduate House commons. This is certainly poor student relation policy. It is little wonder that commons are so unpopular with the Burton group.

Three weeks ago, the Burton House Committee unanimously passed a resolution condemning this periodic change of dining halls as being unfair and discriminatory to those taking Graduate House Commons. A letter stating this resolution was sent to the administration. No apparent relief has been realized.

According to the Graduate House schedule, next week—Thursday, Feb. 17, those taking Graduate House commons may again look forward to an-

Harvard Law School Forum To Discuss "Ethics In Politics"

Carmine G. DeSapio, Jacob K. Javits, and former-Senator William Benton will appear at the Harvard Law School Forum on February 18. The controversial subject is "Ethics in Politics" and will be moderated by David F. Cavers, Associate Dean of the Harvard Law School.

Mr. DeSapio, leader of Tammany Hall and recently appointed Secretary of State of New York by Governor Harriman, will present the views of the party "boss". He will discuss the Tammany organization in New York and will mention some of the factors that he considers in choosing a candidate. Mr. DeSapio will also examine the oft-expressed charge that a political machine is intrinsically evil and its leaders corruptible.

Mr. Javits, who in November defeated Franklin D. Roosevelt, Jr., for the office of Attorney-General, was the sole Republican winner in the New York elections. He will discuss the ethical problems that a candidate faces in conducting a campaign and the possible conflict between party loyalty and conscience. He will also speak of the pressures placed upon the man in public office by the party and how one reacts to such pressures.

William Benton, former United States Senator from Connecticut will discuss the different standards that are used to judge the business man and politician and attempt to determine just who is the more "ethical". Senator Benton, who was one of the first men of either party to oppose Senator McCarthy on the floor of the Senate, will present some "concrete proposals" for improving the ethics of men in political life.

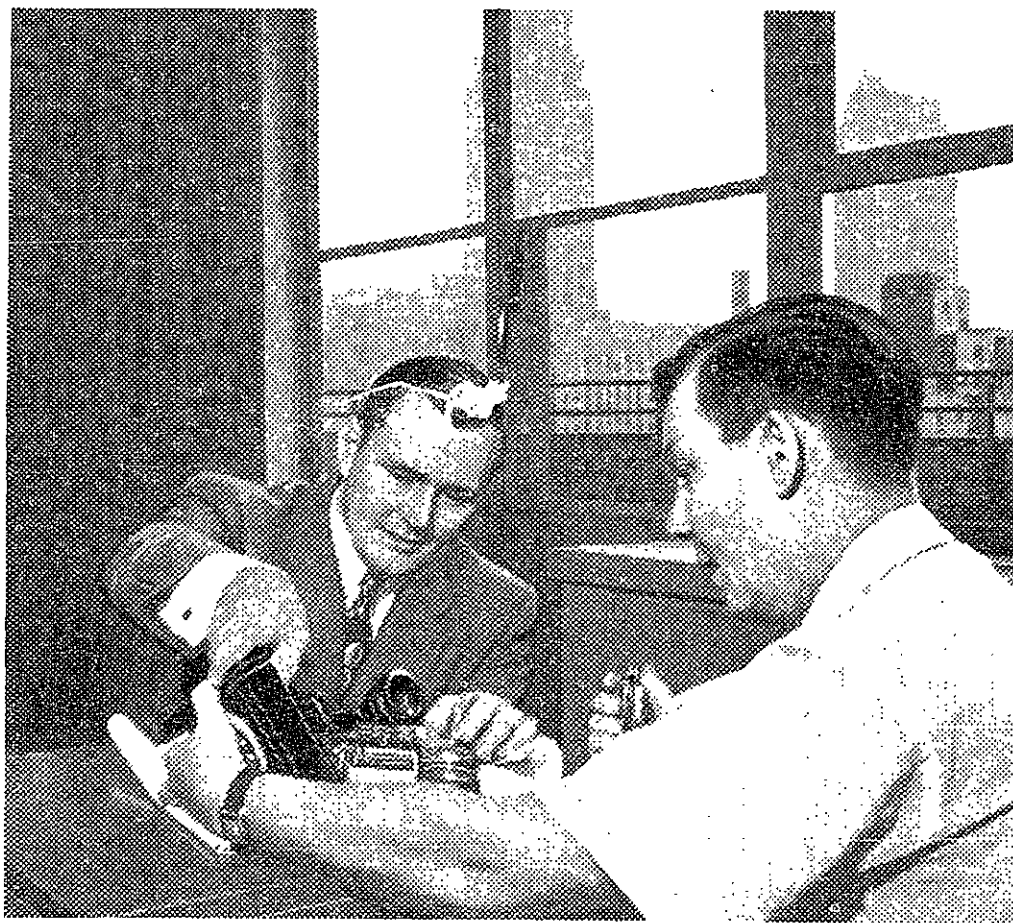
The program will begin at 8 p.m. at Sanders Theatre (Memorial Hall). It will be broadcast by WHDH and other Boston stations.

ASCE Elections Held Last Monday

This past Monday the MIT Student Chapter of the American Society of Civil Engineers elected its officers for 1955. Those elected include: Peter S. Parsonson, '56 president, Bruce Blanchard, '56 vice president, Ron Clark, '56 secretary, and Don Scott, '56 treasurer.

These new officers will take office at the next meeting on February 17 at 4:00 p.m. in room 1-390. The program for that meeting will feature two engineers from the Morrison-Knudson Company's tunnel project to Chestnut Hill. All interested people are invited.

A Campus-to-Career Case History



Jim O'Hara (left) works out a problem with a member of his crew

His territory:

TWO CITY BLOCKS

James O'Hara, Stevens Institute of Technology (M.E. '51), is an installation foreman for the New York Telephone Company. His present assignment is two city blocks between 45th and 47th Streets in the middle of Manhattan.

"It doesn't measure very big horizontally," Jim says. "But vertically it makes up a lot of telephone business—7500 telephones to be exact. My eight-man crew does everything from installing a single telephone to working on complete dial intercom systems for some of the nation's biggest businesses."

"I've got to know about each of these jobs that my men do. My training with the telephone company took me through the installation, repair and testing of the various types of telephone equipment and service for which I am responsible. I even had a chance to do a little experimenting of my own and developed a new way of preventing oil seepage on automatic switching equipment. I understand it's being written up for use throughout the Bell System."

"That's what I like about telephone work. Even two city blocks are full of opportunity."

You'll find that most other college men with the telephone company are just as enthusiastic about their jobs. If you'd be interested in a similar opportunity with a Bell System Telephone Company—or with Sandia Corporation, Western Electric or Bell Telephone Laboratories, see your Placement Officer for full details.



BELL
TELEPHONE
SYSTEM

the college world

The arrival of the new term and with it the advent of Spring remind one of an infant fresh from the womb, as yet unspoiled, but destined to drain each of us as dry as infant ever emptied bottle.

From our accumulation of exchange publications we shall draw many items of varying degrees of interest, the more dull of which will creep into these lines.

It makes us truly grieve to note the passing of another liberty at the red-and-white schoolhouse somewhat up-stream. No longer are hip flasks and similar accoutrements permitted at their pigskin festivals, thus leaving nothing but pale, watery blood to stave off the chill fall winds.

And at the University of Louisville the biology undergraduates are met with an insurmountable difficulty which patrons of our Coop may well appreciate. It appears that their store no longer stocks the special paper on which their many drawings are required to be submitted.

Quizzes the week before finals plague W.P.I. men, and the editor of their paper calls for a crusade to bring a halt to that barbarous custom long since history here, as well as to eliminate the continuity of classes with exams, unbroken by a reading period. The Dark Ages yet persist in the uncivilized wilds of

backwoods Massachusetts.

California Institute of Technology joins the many other colleges and universities around the world which have a blazer or student jacket suitable for sports wear, with an emblem identifying the school of the wearer. WHY DON'T WE???? Let's go, SG.

The Leslie College Lantern has recently published a learned article on "The Passing of Materialism." This article is of great interest, no doubt, but a newspaper, it must be admitted, hardly seems the proper vehicle for enduring thoughts; it should be devoted more completely to a study of the "passing parade."

A further bulletin from our crimson and white neighbors reveals that our former medical director, Dana L. Farnsworth, will give a new course in the Divinity School this term, entitled "Psychology of Religion." It will deal with the insights of religion, medicine, and psychiatry in relation to the duties of a pastor.

It seems that students at the Syracuse University are no longer to be allowed to parade downtown in their original clothing. The official document states that Syracuse University students are requested not to run naked through the streets of downtown Syracuse. The Daily Orange has reported that a spokesman for the University previously stated that

"this is a direct violation of University rules." They further report that any violators will be severely reprimanded.

Words of Wisdom—caption to a recently published cartoon—"Les see . . . I got "Incomplete" in Math 5, "Withdrawn" in English 2, "Conditional" in Greek Lit and a "D" in Phys Ed . . . Boy! Thank goodness I didn't flunk anything this term." My 1.88 makes this seem very close to my heart. Ouch!

Good news may be in the offing for hard-pressed college students. A new bill to be considered by Congress this month provides for a deduction from parents' taxes (not from income! directly from the tax bill!) of thirty per cent of their dependents' college tuition. This would in effect reduce M.I.T. tuition from \$900 to \$630, according to a rapid calculation with the aid of my trusty slipstick. There would be a maximum deduction of \$450 per dependent, however. Total loss in revenue: estimated at a paltry \$118 million.

Ernest Levy, East Campus Faculty Resident and noted pianist will appear on the afternoon of February 20, at 3:00, in Sanders Theatre. His program will include five original compositions. Tickets, obtainable at the Harvard Coop, range from \$1.20 to \$2.40.

Having bled all other college papers in our files as bloodless as Dracula in his greatest thirst, we rest awaiting other unwary victims.

Calendar of Events

from February 12 through February 16, 1955

SATURDAY, FEBRUARY 12

Varsity Track Team. Meet with Bowdoin College. Rockwell Cage, 1:30 p.m.
Freshman Wrestling Team. Meet with Boston University. Rockwell Cage, 2:00 p.m.
Varsity Wrestling Team. Meet with Boston University. Rockwell Cage, 3:30 p.m.
Informal Dance Committee. Dance. Walker Memorial, 8:30 p.m.-12:00 midnight. Admission: \$1.00 per couple.

MONDAY, FEBRUARY 14

Mathematics Department. Lecture Series I: "Algebraic Theory of Abelian Function Fields." Dr. Peter Roquette, Institute for Advanced Study, Princeton, New Jersey. Room 2-243, 4:30 p.m. Tea will be served in Room 2-290 at 4:00 p.m.

TUESDAY, FEBRUARY 15

Food Technology Department. Food Industry Seminar: "Production Problems in the Glass-packing of Foods." Mr. H. A. Barnby, Director, Packaging Research Division, Owens-Illinois, Toledo, Ohio. Room 16-310, 2:00-4:00 p.m.
Physics and Mathematics Departments. Operations Research Seminar. Mr. Stephen L. Cook, Operational Research Group, National Coal Board, London, England. Room 52-154, 3:00 p.m.
Electrical Engineering Department—Cooperative Course VI-A. Sophomore Orientation Lecture by engineers of the American Gas and Electric Service Corporation. (Lecture to be illustrated by a new sound film.) Room 10-250, 4:00 p.m. Graduates and freshmen also welcome.
Mathematics Department. Lecture Series II: "Algebraic Theory of Abelian Function Fields." Dr. Peter Roquette, Institute for Advanced Study, Princeton, New Jersey. Room 2-243, 4:00 p.m.
Christian Science Organization. Subject: "Faith." Tyler Lounge, Walker Memorial, 5:15 p.m.
Varsity Hockey Team. Game with University of New Hampshire. M.I.T. Hockey Rink, 7:30 p.m.

WEDNESDAY, FEBRUARY 16

Freshman Basketball Team. Game with Andover Academy. Rockwell Cage, 3:00 p.m.
Acoustics Laboratory. Seminar: "Transmission of Random Noise through Pipes." Dr. James E. Young. Room 20E-225, 4:00 p.m.
Biology Department. Colloquium: "Cellular Inclusion Bodies and Cell Death." Prof. J. Walter Wilson, Biology Department, Brown University. Room 16-310, 4:00 p.m. Tea will be served in Room 16-711 at 3:30 p.m.
Technology Catholic Club. Business Meeting—election of officers. Room 2-190, 5:00 p.m.
Inter-Varsity Christian Fellowship. Lecture: "The Promises of Christ." Jackson Lounge (10-280), 7:00 p.m.
Varsity Fencing Team. Meet with Harvard University. Walker Memorial, 7:30 p.m.

CANDY FOR VALENTINES

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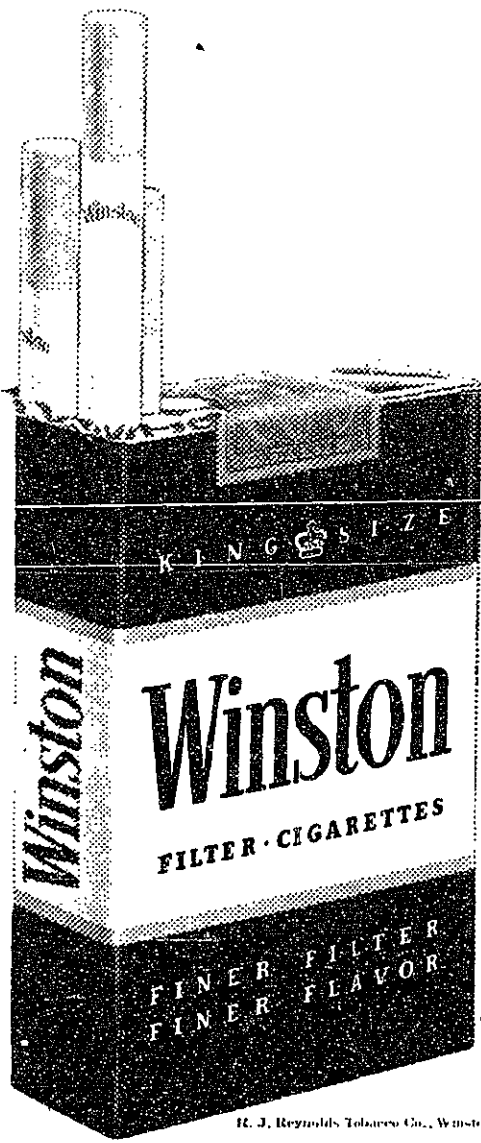
Cambridge

UN 4-3471

SENIOR CLASS RINGS

All juniors who did not get a chance to order their Class Rings, will have the opportunity to do so Thursday, February 17. Salesman will be in the lobby of building 10 from 8:30 a.m. until 4:00 p.m. A deposit of \$5.00 will insure the order.

College smokers
are sure going
for Winston!



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GOOD!

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FINER
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No wonder Winston's so popular with college smokers! It's got real flavor—full, rich flavor you'll really enjoy. Winston tastes good—like a cigarette should!

Along with finer flavor, Winston also brings you a finer filter. The exclusive

Winston filter works so effectively, yet doesn't "thin" the taste or flatten the flavor. Winston lets you draw smoothly, easily—there's no effort to puff!

Try Winston, the filter cigarette that tastes good—like a cigarette should!

Smoke WINSTON the easy-drawing filter cigarette!

Hotel Bradford Is To Be Scene Of '55 Military Ball

This Year's Military Ball, scheduled for March 4 at the Hotel Bradford, will feature a new attraction. The beauty queen contest, formerly open only to the dates of Advanced Corps ROTC students, will now be expanded to include the dates of any members of the Institute family. The contest starts on February 21. Applications may be obtained in a booth in Building 10 and must be returned by February 25. Only those who purchase tickets will be permitted to enter their dates in the contest.

A committee of officers from the Military Science Department will make the initial selections and the votes of the student body will determine which lovely lady will reign over the ball. The queen will be presented with a rhinestone tiara and a color portrait of herself. The runners-up will compose the queen's court.

The ball itself will be informal as usual. Uniforms or tuxedos are considered as suitable attire for the evening. Jack Edward's orchestra will provide music for dancing in the main ballroom. Tickets at \$4.00 per couple will go on sale in Building 10 on February 21.

Inscomm

(Continued from Page 1)

for or against the new regulation, but because they felt that they did not have the right to use the name of MIT to express an opinion, in this case their own personal opinion, about national policy. Along this same line, a motion censuring the NSA for making statements on national policy and not consulting its members, was brought up for discussion. This motion was tabled until more information could be procured on the policy of the NSA.

Another motion brought up and defeated concerned attendance at Inscomm meetings. The motion listed conditions which could cause a member to lose his seat because of an excess of absences. However, the motion was defeated in favor of the old regulation on attendance. This old regulation will be re-enforced by the addition of stronger penalties and greater restrictions.

Next week's meeting, to be held in the Schell Room in Building 52, Thursday, Feb. 17, will consist of a thorough discussion of the problem of fund raising and solicitation of funds on campus. Among the questions on the agenda are:

1. Should our support be given to non-campus charities?
2. Should special events (such as the WUS carnival) or individual fund drives be held for the non-campus charities?

Also planned for next week's meeting is a study of The Student-Faculty Committee. Along this line mention was made during this week's meeting of four faculty committees that have students as members and of a few others that Inscomm is working on. A more complete story on these will be available at a later date.

Debate Tourney Pulls 32 Schools; Topic Red China

The M.I.T. Debate Society will hold its annual debate tournament on Friday, February 18. The tournament, oldest in New England, will draw 32 schools from ten states and the District of Columbia. Chairmen-timekeepers for all four rounds of debate, at 4:00 and 7:00 p.m. on Friday, and 9:30 and 11:00 on Saturday, are urgently needed; anyone interested should contact Gene Davis, '55, East Campus.

Tech debaters competed in the Tau Kappa Alpha tournament at New York University in New York City. The topic, as in all intercollegiate debates this year, was the controversial question of extension of diplomatic recognition to Red China. M.I.T. compiled a record of five wins and three losses. Vern Porter, '57 took the second best negative speaker award, and Lowell Wilson, '57 took second place in the extemporaneous speech competition. DeWayne Ganow, '57 took first place in the first round of extemporaneous speeches.

Demolay Chooses New Counselors; Ray Peck Wins

Raymond S. Peck, '56 was unanimously named the sixth master counselor of M.I.T. "Tech" Chapter, Order of Demolay, at a special meeting on January 19. Peck succeeds Raymond C. Smith, '56 in the chapter's highest office.

At the same meeting, Richard R. Kinney, '56 was elected senior counselor, and Garry L. Quinn, '56 defeated Alan M. May, '57 in a close battle for the position of junior counselor.

The officers for the coming term will be installed in a public ceremony to be held in the Library Lounge, 14-E-310, this evening at 8:00 p.m.

Admission Exam For Medical School Planned For May

Candidates for admission to medical school in the fall of 1956 are advised to take the Medical College Admission test in May, to enable the medical schools to examine their record early next fall. Candidates may take the MCAT on Saturday, May 7, 1955, or on Monday, October 31, 1955 at more than 300 local centers in all parts of the country.

Application forms and information may be obtained from pre-medical advisors or directly from Educational Testing Service, 20 Nassau Street, Princeton, N. J. Completed applications must reach the ETS office by April 23 and October 17 respectively, for the May 7 and October 31 exams.

E.C., ATO, Theta Chi In Battle For Intramural Basketball Title

by Jerry Marwell '57

With the end of the intramural basketball season at hand the standings and prospects of the top quintets have a familiar ring. Three teams, just like last year, are fighting it out for the trophy. Two of these were among last year's three co-titleholders. The two returnees are East Campus and ATO. New to the upper echelon is Theta Chi, which replaces last year's powerful Grad House squad.

The three top teams each have two games left on their schedules. These six games constitute a sort of round-robin contest between the three. First ATO meets East Campus, then the two fraternities meet, and last of all the Easties come up against Theta Chi. There is a possibility of a triple tie resulting.

All three squads had pretty easy times getting to their present position. None of them came near dropping a contest.

ATO's Weight Pays

In their opening play-off game the ATO's romped over the East Campus Raiders. Their high scorer for this affair was Tony Vertine '57. They next bowled over SAE by a 46-24 margin with John Stelling leading the pace. Their next two scheduled games saw a 10 point victory over Catholic Club and a forfeit win over Grad House.

The ATO's are probably the biggest team in intramural ball. Their starting lineup includes three men taller than 6 ft. 1 in. Top rebounder is Tony Vertine, whose scoring comes exclusively on inside shots. The marksman of the group is John Stelling, a 6 ft. 1 in. guard with a remarkably soft touch on his shots. John starred on last year's all-star team and looks like a sure repeater. Included in the ATO's lineup are some promising freshmen.

Theta Chi Balanced

Throughout the season Theta Chi has been easily the most statistically impressive ball club in the league. In one contest they piled up 100 points, an intramural record. In the finals they have repeatedly swamped their opponents with their diversified attack. They topped Catholic Club by 56-33; downed SAE to a 58-38 tune; demolished the Raiders 79-34.

The Theta Chi team has an unusual degree of balance. No one man has led the team in scoring in more than one game. They have Fred Kissner '57 who tallied 26 against the Raiders filling one forward slot and Art Brownlow, whose 17 markers were tops against Catholic Club, filling the other. Center and best rebounder is Art Hanson '56 who swished 18 against SAE. Guards are ex-frosh starter Al Richman '57, probably the best defensive man in the league, and ex-All-Star Dave Palamountain '56. They've got a plenty strong bench to fall back on, too.

E. C. Still Strong

The third of the now-ruling triumvirate is East Campus' entry. Last season, with varsity star and transfer student Dee Vergun '56 leading the way, the Easties were easily the top squad around. Dee isn't around to help this season so it seemed that funeral

bells were in order. The Easties, however, have slowly built up a powerhouse. Back from last year's squad are sharp-shooting Ken Meliere '56 and guard Hilly Prager '56. A much improved Don Aucamp '57 returned to be a defensive and rebounding standout. Dick Fehnel '56 came out of retirement to be a valuable backcourt asset.

To take up the rebounding and

scoring slack caused by the loss of Vergun, 6 ft. 4 in. Ted Zachs '57 took over the center slot and has done a whale of a job. He was particularly effective against SAE in the finals. Top addition to the squad has proved to be transfer student Jack Safirstein '57 a 6 ft. guard who specializes in driving lay-ups. Sounds simple, but nobody's been able to stop him yet.

(Continued on page 7)

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Beaver Barks

by Jack Friedman '57

Despite optimistic pre-season publicity and enthusiastic spectator support, the basketball season has been disappointing. Although the team has turned in more than one disheartening home performance, the crowds have remained large and loyal.

The nucleus of last year's team is back. Seniors Weber, Hess and Britt were, together with Stan Shilensky, the backbone of the successful '53-'54 squad; and Dee Vergun, center and high scorer, has more than adequately replaced the missing Shilensky. Stan, by the way, is back at the Institute and has wisely decided not to play the second half of this season, saving his remaining year of eligibility to play a full season next year.

With superior playing conditions and the interest and support of the student body, the team should apparently be performing with far greater success. A closer look, however, reveals a far more accurate picture.

The success of last year's team was to a great measure due to the men who came off the bench and provided the desired spark. The difference between a successful basketball team and an unsuccessful one is usually in its bench. The reserves are needed not only to enable the regulars to rest but also, and in this instance, primarily, to come into the game, get hot, hit a few shots and set the regulars on fire. Coach Scotty Whitelaw has attempted this on many occasions this season, bringing in Muraskin and others in the hope that the "hot" man can be found and the team kindled into a better functioning unit. This usually valuable tactic has proved futile. Only Platzman, early in the season was able to fulfill the desired role. Phil is now more or less a regular and the role of spot player is vacant.

Last year, the starting five of Hess, Weber, Britt, Shilensky and Captain Al Schultz '54 was augmented by a fine reserve crew. Jack Byrnes came off the bench and in several instances, came through. Larry Hallee, now a high-scoring regular, Ken Christie '54, Don Dix '54 and Jack Patierno were others who did yeoman work in the spot player role. Byrnes, Christie and Dix are gone, Hallee is a regular and Patierno was on co-op until the mid-season road trip and is slowly regaining form.

For the great majority of the games played to date Coach Whitelaw has had to rely upon the six regulars; Vergun at center, captain Hess and Britt at guards and Weber, Hallee and Platzman, forwards. Scotty has gone to the bench, usually picking Matty Matsuo, Bernie Benson or Murry Muraskin. Matsuo and Benson are both fast, aggressive and good ballhandlers but have been unable to provide what was vitally needed, a hot shooter. Muraskin, touted as a deadeye shot, has yet to come through. Poor shooting has been the varsity's failing. With the exception of the Rochester game, poor shooting was a vital factor in all the team's defeats. Rochester, incidentally, hit on two-thirds of their second half shots to overcome a slim Tech halftime lead. Patierno may help to fill this gap.

Giff Weber and Carl Hess, scoring mainstays last year, have not equalled their past performances, and Jack Britt, the hustling "holler guy" of last year, is not the "Tiger" of old. Weber has scored well in many games but has failed to come through in the clutch as he did last year. Hess, who was driving and shooting sensationally last year, has not, with the exception of the Oberlin game, played up to his old form.

The success of last season was largely in a late season winning streak. Coach Scotty Whitelaw has been trying to find the answer to the slump of his senior regulars but has not as yet found it. which followed a dismal early season showing. To win any of the remaining six games would require a return to last season's form. With one-third of the schedule remaining, the season can still be salvaged. If the seniors come through and if spot players get hot, well . . .

Williams Edges MIT Skiing Team In Vermont Meet

Although they slid to three firsts and as many seconds in the eight events of the Eastern Intercollegiate Ski Association Divisional Championships last Saturday and Sunday, M.I.T.'s ski team was edged out for first place honors by a strong Williams team. Yale, Colby, the University of Maine, the University of Massachusetts, and St. Michaels also entered the event which was held at the Lyndon Outing Club in Lyndonville, Vermont.

Terje Backe, '56 started the Engineers off by taking a first in the Slalom on Saturday and following up with a second in the Combined Downhill the next day. Jon Walter, '56 also gained a first and second for Tech as he swept to first in the Crosscountry and took second in the Combined Jumping and Crosscountry.

Trond Kaalstad, '57 and Captain Per Klem, '55 staged a last minute spurt as they took first and second, respectively, in the final event, jumping. Tech received a tough blow in

Children To Skate On Sat. Morning

"Roy B. Merritt, Acting Director of Athletics, has announced that there is to be skating for children of Institute personnel on Saturday mornings from 10:00 a.m. to 12:00 noon. This period will be devoted exclusively to children's skating and will be under the supervision of hockey coaches, Ben Martin and John Foley. Children must be between the ages of 8 and 12.

The sessions will begin on Saturday, February 12 and will continue as long as cold weather prevails and ice making is practical."

this event, however, as Doug Johnson, '57 took a bad spill on the last jump and suffered a broken collarbone.

Don del Rio, '55, Sigurd Hoyer, '56, and Jim Clinton, '55 placed high in the other events to gain points for the cardinal and grey.

This was the opening contest of a four meet schedule for the skiers. By placing second they qualified for the Eastern Intercollegiate Championships which will be held on February 25 and 26 at Middlebury Col-

...Coming Up

Highlighting the sports schedule this week-end will be the varsity track and wrestling meets this Saturday.

The track team takes on Bowdoin Saturday afternoon at 1:30. This will be the first dual duel of the year for the cindermen, who have previously competed in three indoor A.A.A. meets.

The wrestlers put their 2-2 record on the line at 3:30 Saturday against a strong Boston U. team. The contest will be held in Rockwell Cage and preceded by a freshman match with the B. U. frosh.

The basketball boys hit the road again this week-end as they travel to W. P. I. for a Saturday night game.

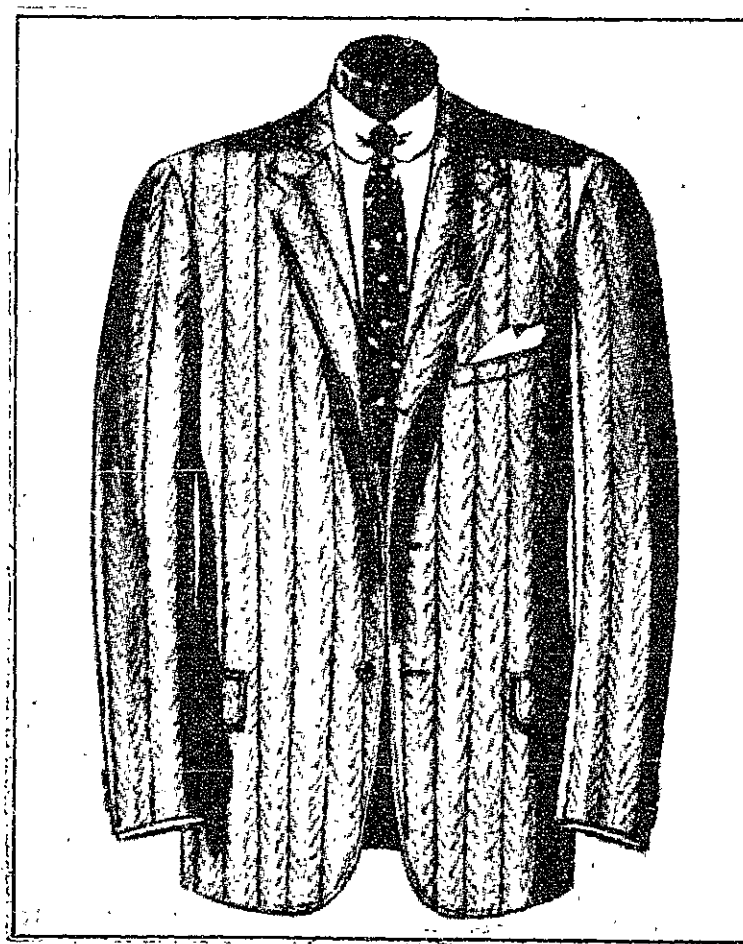
lege. First and second place winners from all the other divisional meets will be entered.

This week-end the team travels to the Norwich Winter Carnival at Northfield, Vermont to keep in trim for the championships and possibly bring back the top honors. Following the championships they finish out their season on March 5 and 6 when they take on Bowdoin College at Golfdord, New Hampshire.

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Minai B'rith Hillel Plans Brunch For Sunday Morning

Hillel's first social function of the semester will be a brunch on Sunday morning, February 13, at 10:30 a.m. The appearance of Tal-Lounge in East Campus will be considerably altered for the occasion as the indefatigable bridge players of East Campus yield the lounge to the Simmons girls who have been invited. The price of the meal is fifty-five cents for members and a half buck for non-members.

It should also be noticed that the Hillel Friday evening "minyan" services will commence again today at 8:15 in Tyler Lounge, Walker Memorial.

Atomic Clock

(Continued from Page 1)

tical purposes, the clock is perpetual. Extreme Accuracy Standard time, with one second equal to 1/86,400th of the mean solar day and generally measured by crystal, is accurate to one part in ten to the ninth power. The Atomic Frequency Standard is accurate to one part in ten to the tenth power. Dr. Zacharias expects, through further development, to obtain accuracy of one part in ten to the twelfth power and says, "This is just the beginning."

Dr. Zacharias said, "Development of the Cesium Atom Frequency Standard is a first-rate example of the conversion of post-war basic science into technology. And it is an example of how the combination of theoretical work, experimental work and industrial production can yield something of use in many fields and which will make further research possible."

Hockey Team Beats U Mass Six Scoring Four In Third Period

by Ben Chertok '57

Playing by far its best game of the season, the Engineer hockey team beat the University of Massachusetts sextet 7-3. The Redmen outthrustled the Beavers in the first period and the score read 3-2 UMass. in a seesaw scoring period. The second period was completely dominated by the Engineers. Despite three penalties, the Martinmen kept the puck in enemy territory during most of the period. The knotting score came ten seconds before the end of the period. It took the Beavers two minutes to open the last period scoring. Then, they added three insurance markers to cap their first victory of the season.

Patterson Opens Scoring

The scoring went like this. Stu Patterson gave the Beavers a 1-0 lead at 0:44 on a slap shot assisted by John Sullivan '56. Flashy Redman center Russ Kidd scored twice in the next three minutes to give his team a 2-1 edge. Sullie beat the goalie at 15:02 assisted by a sharp Bev Goodison '57 pass to knot the score at 2-2. Ron Lungren ended UMass's scoring for the game with a score immediately following Tech's tally. This gave the Redmen a slim 3-2 margin.

Schwartz Ties Score

The Beaver pressing offense got away eleven shots at the visitor's goalie in the first half of the second period, but could not score. Captain Harold Wells '55 sustained two penalties in this period but the Beaver defense was impregnable. At 19:50 Gus Schwartz '56 tied the score at 3-3 as he skated down the right side and lifted the puck into the nets from 15 feet out.

Hosmer Shines

Captain Wells scored the tie breaking goal at 2:20 on a slow, teasing shot between the goalie's legs. Then the line of Fletch Hosmer '56, Hank Durivage '57, and Jim Bartsch '55 scored three times in six minutes. Fletch scored on a pass from Durivage at 10:00. At 15:45 Hank turned Hosmer's pass into a score. The tally now read 6-3. Bartsch got into the spotlight at 16:08 with a slap-shot assisted by Hosmer. With the score 7-3, Coach Ben Martin gave Sandy Aitken a well deserved rest and Dick McCabe '57, recipient of the Freshman Improvement Award, shut out the Redmen for the rest of period. With seconds left, Wells broke through the defense, pulled the goalie out and scored; but the final buzzer beat him by an instant.

Teampay Outstanding

The victory was clearly a concerted team effort. Wells, Nick DiBona '55 and Jerry Hare '56 played their defensive positions well. DiBona did a



particularly fine job. The starting line of Bev Goodison, John Sullivan and Stu Patterson made several successful rushes and passed smoothly. Hosmer, Durivage and Bartsch were the surprise of the game. This scoring trio can make a niche for itself during the rest of the season. Walt Bachman '56 joined the team last week and centered the second line with Gus Schwartz and Fred Culick at wings. The three played well together considering their recent formation. Sandy Aitken continued his fine goal tending performances, saving 18 shots in the first

period and shutting out the invaders in the last two frames.

UNH On Tuesday

Tuesday at 7:30 the Beavers meet UNH on the MIT rink. Army edged the Wildcats by only 3-2, so this contest should be a hard test for the Engineers.

Scoring:

First Period: Patterson from Sullivan, MIT, 0:44; Kidd from Richards, Mass, 3:23; Kidd from Richards, Mass, 5:47; Sullivan from Goodison, MIT, 15:02; Lungren from Kidd, Mass, 15:19.

Second Period: Schwartz unassisted, MIT, 19:50.

Third Period: Wells unassisted, MIT, 2:20; Hosmer from Durivage, MIT, 10:00; Durivage from Hosmer, MIT, 15:45; Bartsch from Hosmer, MIT, 16:08.

Saves: Aitken, MIT, 42; Egan, Mass, 29.

Bush Leaguer

(Continued from page 4)

He tallied 20 against the Raiders for his top performance to date.

Depth Important

Tony Ryan '57, Bert Kleinman '56, Fred Gordon '56 and Jerry Marwell '57 make up the remainder of a talent-deep squad. The Easties main trouble seems to be their teamwork. Their steady rise in quality of performance is probably due to an increasing amount of work together.

Catholic Club Close

Fourth strongest team in the finals seems to be the surprising Catholic Club quintet. Lee Freese '57 is the shotmaker for this five. They have registered a victory over Grad House, and have provided the top three's toughest competition. The Raiders have a win over SAE on the credit side of their ledger.

Most disappointing performance of the year was given by Grad House, who, after getting into the finals lost their first two games and then quit, not showing up for their next three and thereby forfeiting.



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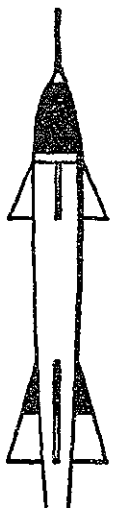
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9:00 - 5:00 **February 18, 1955**

Professor Taylor Invited To Speak Abroad In May

C. Fayette Taylor, professor of automotive engineering at the Institute, has been invited to participate in the International Internal - Combustion Engine Congress to be held at The Hague, The Netherlands, from May 23-28.

This Congress was organized by the Association of Metal Industries of The Netherlands under the patronage of H. R. H. the Prince of The Netherlands.

The only contributor from the United States, Professor Taylor will present a paper on "Research, and Discussion Regarding the Relation of Cylinder Size to the Design and Performance of Diesel Engine Installations for Railway and Marine Service." His report is based on research carried out over the past ten years in the Institute's Sloan Laboratories for aircraft and automotive engines.

Professor Taylor, winner of a U.S. Educational Exchange Grant, will be on leave of absence from M.I.T. during the spring term to lecture in mechanical engineering at Delft Technological University.

1955 "Career" To Be Issued To Seniors, Grads

The 1955 edition of "Career", an opportunities and how a graduate should decide upon his future profession, will be distributed next week free of charge to all seniors and to graduate students who will receive a degree this year. Copies may be obtained in Building 10 next Monday through Wednesday between 10 a.m. and 3 p.m. They may also be obtained in the lobby of the Graduate House and in the Baker House dining room on Monday between 5 and 7 p.m. Seniors living in fraternities will receive their copies Wednesday evening from their IFC representative.

HAVE FUN!

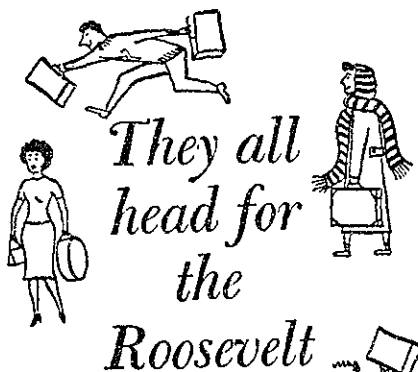
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Pershing Rifles To Hold Smoker Monday At Five

Pershing Rifles will hold their semi-annual smoker in Tyler Lounge on Monday, February 14 at 5:00 p.m. All freshmen are invited to attend.

The organization is a national military fraternity for basic corps ROTC students, with over 125 companies divided into twelve regiments. M.I.T. is Twelfth Regimental Headquarters, administering seven companies including its own, Company C-12.

The group will be addressed by

ASME To Meet On February 14; Sillcox To Speak

The Student Branch of the A.S.M.E. will present a lecture on the "Wonder of Water" at an open meeting on Tuesday, Feb. 14, at 5:00 p.m. in the Library Lounge, 14-E-310. The Speaker will be Dr. L. K. Sillcox, honorary member and 1954 president of the A.S.M.E. The lecture will include a discussion of the part water plays in civilization today. Dr. Sillcox will also discuss various means of water conservation, including salt water purification and weather control.

Coffee will be served before the meeting from 4:30 to 5:00 p.m.

Captain William M. Randolph, '55, commanding officer, and members of his staff. Both military departments will be represented and members of each will speak to the group, following which refreshments will be served.

The organization was founded in 1894 by General of the Armies John J. Pershing in 1894 at the University of Nebraska. The purpose of the organization is as it was then—to produce better officers from the ROTC program. This is achieved by giving freshmen and sophomores intensive training by their own officers in all phases of drill. Better drill men come from the Pershing Rifles program because of the greater amount of individual attention each man receives. The officers are elected by the company, and are trained

BRIDGE CLUB

A Master Point Tournament will be held by the MIT Bridge Club this Saturday afternoon, Feb. 12, at 1:30 p.m. in the Baker House Dining Room. All those interested are invited to attend, with or without partners.

in the exercise of command.

The biggest event of the year is the annual Regimental Drill Meet, in which C-12 competes against the other companies in the Twelfth Regiment. Besides competition in the standard Infantry Drill Regulations the men enter a fancy drill team for separate competition.

P/R is not based solely on drill, but has many other activities such as maneuvers, dances, parties, and stags.

Auditorium

(Continued from Page 1)

can be procured from Robert Holden, secretary of TCA, and Professor J. D. Everingham, Associate Professor of Humanities, respectively. The completed application blanks should then be presented to James Murphy, Auditorium Manager, at his office in the auditorium.

It is suggested that applications for use of the auditorium be made at least two months in advance and those for use during the week approximately one month in advance. Arrangements for particulars should be made two weeks before use. Since Monday the auditorium has been used for rehearsals of the Music Clubs.

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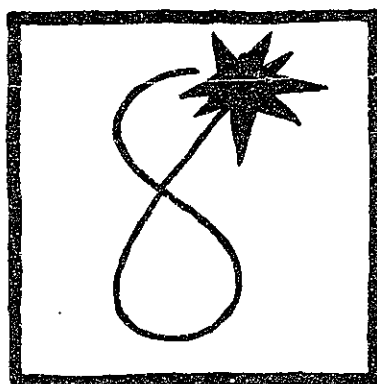
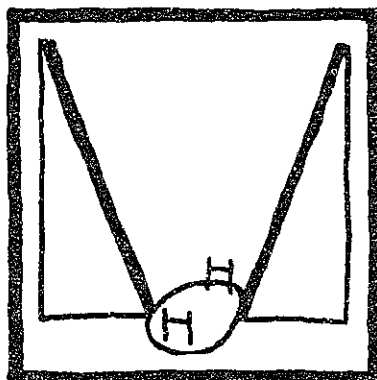


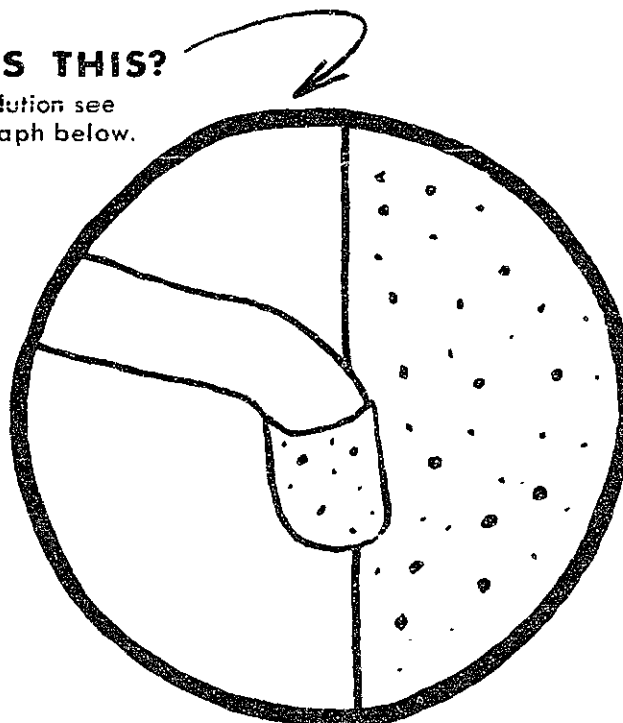
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Charles McGaha
Eastern New Mexico University



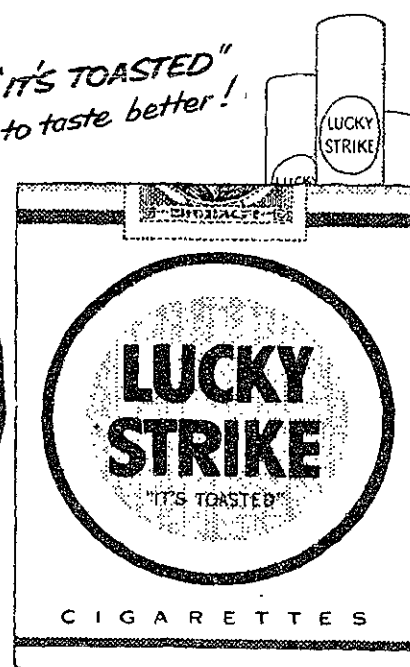
FOOTBALL STADIUM WITH ALL SEATS
ON 50-YARD LINE
Herbert V. Wilkins
University of Alabama

WHAT'S THIS?

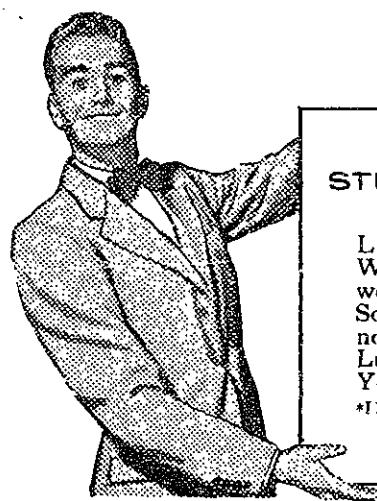
For solution see
paragraph below.



"IT'S TOASTED"
to taste better!



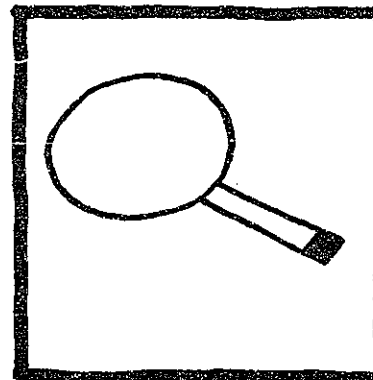
THEY'RE CLAMORING FOR THEM! Who? Students. What? Luckies. Coast to coast, dormitory to dormitory, college smokers prefer Luckies to all other brands, according to the greatest up-to-date college survey. Again, the No. 1 reason for Luckies' wide lead: Luckies taste better. They taste better, first of all, because Lucky Strike means fine tobacco. Then, that tobacco is toasted to taste better. "It's Toasted"—the famous Lucky Strike process—tones up Luckies' mild, good-tasting tobacco to make it taste even better. So enjoy the better-tasting cigarette . . . Lucky Strike. But don't be like the man in the Doodle above, titled: Pickpocket acquiring Luckies. Make sure you have plenty of your own. Buy Luckies by the carton.



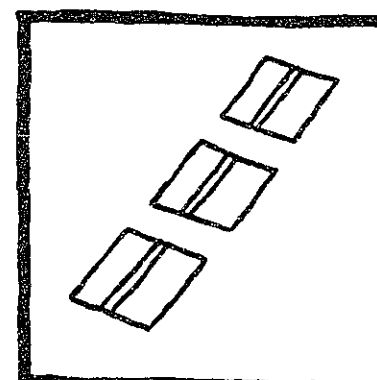
STUDENTS! EARN \$25!

Lucky Doodles* are pouring in! Where are yours? We pay \$25 for all we use, and for many we don't use. So send every original Doodle in your noodle, with its descriptive title, to Lucky Doodle, P. O. Box 67, New York 46, N. Y.

*DROODLES. Copyright 1953 by Roger Price



COWARDLY TENNIS RACQUET (NO GUTS)
Barbara Sprung
Brooklyn College



HIGHWAY FOR GRASSHOPPERS
B. D. Toepfer
University of Oregon

Better taste Luckies...

LUCKIES TASTE BETTER

CLEANER, FRESHER, SMOOTHER!

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