

Baker House Comm Reverses Chairman's Decision On Use Of House Membership Cards

Baker House committee this week tabled a motion to censure its Chairman—Jerry Perloff, '54, for exceeding his authority. It did pass a motion to discontinue the use of House Membership cards as check cards for Athletic equipment which Perloff had authorized. The committee has offered to buy back the cards of those who no longer desire them. The stated purpose of the House Membership cards was to raise funds for the support of Dances. The Cards were purchased for a dollar and entitled the holder to a twenty percent discount on all dances and other activities run by the House Committee.

Clifford Monzeglio, '55, was elected the Social Chairman and Donald Bavelly, '55, was elected Athletic Chairman.

A report by Sherman Uchill, '54, and Paul Levine, '55, proposing the construction of a first floor television lounge was accepted. The report came out of a talk with Dean Fasset.

Two motions were tabled. The first proposed soliciting funds for use in purchasing and maintaining athletic equipment, and the second was to allow the use of intoxicating beverages in the Everett Moore Baker Lounge.

Pete Seeger Gives Folksong Program Tuesday In 10-250

Peter Seeger, nationally known folksinger and folk-instrumentalist, will present a program of folksongs and topical ballads next Tuesday, October 20, under the auspices of the Lecture Series Committee. The program is scheduled for 5:00 p.m. in room 10-250. No admission will be charged.

Mr. Seeger is considered by many to be one of America's foremost five string banjoists as well as an unusually talented folksinger. Tuesday's performance will mark his second appearance at the Institute. Last spring he presented a similar program (also under LSC auspices), at which time a near capacity audience in 10-250 heard him sing folksongs of many kinds, and joined with him to sing a number of the songs.

WMIT has arranged to broadcast directly the entire performance for the benefit of those who are unable to attend in person.

Election Petitions May Be Obtained From Secretariat

Elections for Senior Week Committee, Junior Prom Committee, and Senior Ring Committee Chairman will be held on November 17. Nominating petitions are available now at the Institute Committee office in Litchfield Lounge, Walker Memorial. The petitions are due at 5:00 p.m. on Friday, November 17. The elections are run by the Secretariat.

Elections to Sophomore Council will be held on Monday and Tuesday, October 26 and 27, in the sophomore physics classes. Nominating petitions will be distributed by the Quadrangle Club next Monday and Tuesday, Oct. 20 and 20 in the physics classes.

Five men for next year's Junior Prom Committee will be elected from among the sophomore class; these men will be expected to act as ushers at this year's Junior Prom. Ten men from the Class of '55 will be elected to the Senior Week Committee; one Senior Ring Committee Chairman will be elected who will appoint as many members to the committee as he sees fit.

Freshman class elections were held last Tuesday. The newly elected Chairman of Freshman Council is James Schubert; Secretary-Treasurer is David Huber. Representatives to Institute Committee are Malcolm Jones and William McArthur.

President Reports Institute Evolving By Enlarging Arts

The Institute is growing into "a new type of university," Dr. James R. Killian, Jr., president of the Institute, told members of the M.I.T. Corporation in his annual report issued last week.

The Institute, he said, is evolving into "a modern university based around science and technology rather than classical studies, but embracing the arts, the social sciences, and the humanities as essential partners."

"We do not," he continued, "encompass the variety of disciplines usually included in a university. Instead, we embrace a few carefully selected objectives, concentrating our resources on fields involving science or which thrive in association with science."

Dr. Killian's report — his fifth since assuming the presidency of the Institute in 1948 — was presented to over 40 members of the Corporation at their semi-annual regular meeting early this week. The report contained a broad restatement of M.I.T.'s educational philosophy and objectives — as well as a complete summary of events of the year just concluding.

Institute Responsibility
"The responsibility of the Massachusetts Institute of Technology as a national center for education and research continued to grow during the past year," Dr. Killian told the Corporation.

These, he said, are the year's statistics: The combined academic and research budgets during 1952-53 totaled nearly \$43 million — a sum almost equalling the peak reached during World War II. The total of students, staff and other personnel which make up the Institute community exceeded 11,000, the largest number in the history of the Institute. There were 5,074 students, 3,154 of them undergraduate. The enrollment of graduate

(Continued on page 6)

Secondary School Students Attend Tour Of Institute

About four hundred students representing fifty New England secondary schools attended the Secondary School Open House last Saturday, the first affair of its kind in many years. These potential Techmen were given a complete tour of the Institute, including the recreational facilities, laboratories and lecture rooms.

The secondary school students were addressed by Dean Fasset, Dean Thresher, and Dean Jacoby, '54. They received free what Techmen have to pay for: free lunch and two free sample lectures in physics and chemistry.

The Secondary School Open House was sponsored by the Undergraduate Association, financed principally by the Bush Fund, and coordinated by the Public Relations Committee.

Judcomm Will Enforce New Rule Prohibiting Off Campus Hazing Including Interclass "Kidnapping"

Recreational Institute Offers Entertainment Via "Sports Sampler"

Technology Christian Association is making available to members of the Institute family a booklet of entertainment offerings. The booklet, compiled by the Recreational Institute and the participating organizations as a promotional campaign, is designed to advertise the facilities of the member firms. The "Sports Sampler" will be sold at the T.C.A. office and in the lobby of Building 10 on October 15, 16, 19, 20 and 21.

The value of the passes and admissions contained in this Sampler exceed the purchase price of \$5.00 (none of which goes to T.C.A.), in spite of the fact that many of the opportunities are offered on "off-days" and during vacations. The tickets are good until July 1, 1954.

Among the activities being offered are dancing at the Totem Pole, movies, professional and intercollegiate hockey and basketball, stock-car races, symphony concerts and ice and roller skating, as well as college football games.

The Sports Sampler was last made available at the Institute in 1938. In the future, it will be offered every three years.

Foreign Students In U.S. Colleges Reaches Record

Last year saw the largest number of foreign students ever in the U. S. at one time. 33,671 students from 128 countries and dependent areas were in the country. This fact is reported in Education for One World, a census of foreign students, recently published.

For the census, students completed questionnaires giving their field of study, academic institution, and source of financial support. Of 2720 schools polled, 1149 reported at least one foreign student enrolled.

Where do foreign students come from? One-third call Asia or the Near East home, while one-quarter come from Europe, one-quarter from Latin America, and one-seventh from Canada. The remainder are citizens of Africa and Oceania. This diversity of origin draws attention to the fact that there is no "typical" foreign student.

What do they study? Over twenty per cent are studying liberal arts, languages, and philosophy. Almost as many are in the field of engineering. Latin American enrollment is about equally divided between humanities and engineering, while engineering has the greatest attraction for students from Asia.

How old are they? The average foreign student is older than his American counterpart. He often has several years of practical experience behind him when he comes to the United States. The exception is the Latin American, who often comes north for his entire undergraduate training.

Financing Education
Who pays the bill? Although sixty per cent of the students reported their own funds as one source of income, 66 per cent received support from private organizations or colleges, and sixteen per cent received support from their own or from the U. S. government.

(Continued on page 3)

Jacoby Rules: Motion Applies Only To The Field Day Type Of Hazing

Institute Committee, at its meeting last Wednesday, outlawed the traditional practice freshmen and sophomores have of taking one another for off-campus "rides." A motion passed by a roll-call vote of 20-10 prohibits "off-campus hazing," specifically defining that term to include interclass kidnappings.

The motion was proposed by Michael Boylan, '54, two weeks ago, brought up again on Wednesday and passed. Its exact wording is "that all cases of hazing off campus which are reported to the Judicial Committee or which they learn about independently shall be subject to Judicial Committee action. Forcing an individual off campus shall be considered hazing." An amendment was inserted providing for intensive publicity, and recommending leniency in penalties until the new ruling is adequately publicized.

Scope Of Applicability
The scope of applicability of the ruling was the subject of a good deal of discussion. Albert Ward, '54, proposed an amendment limiting the motion to "pre-Field-Day" hazing. Larry Holmes, '54, who later voted against the new rule, objected on the grounds that hazing should not be condemned for one purpose and condoned for another. The amendment was defeated, as was a similar amendment by Ward limiting the rule to "freshman - sophomore" hazing. Finally President Dean Jacoby, '54, ruled that the motion would be interpreted to refer only to field-day type hazing, and after several unsuccessful attempts to postpone the effective date of the prohibition to next year, the motion passed. Off-campus hazing will be condemned, effective as soon as possible. In the opinion of the Judicial Committee, ignorance of the law cannot be claimed. The rule was interpreted as applying only to freshman-sophomore conflict, and not to fraternity activities.

Evaluation Committee
Also passed at the same meeting was a proposal for a Field Day Evaluation Committee. The committee will study the question of hazing and will attempt to evaluate student opinion on this subject. The committee is headed by Louis Mahoney, '54. It is expected to submit a report before Christmas.

The question of assessment for damages incurred last Field Day was also brought up on Wednesday. A motion by Holmes to assess all undergraduates equally was tabled. The total damages of about nine hundred dollars would come to about twenty-five cents per student. It is felt by many that an alternative solution to this problem can be found.

Varsity Runners Submerge Tufts By 15-50 Score

In the opening meet of Tech's cross-country season at Tufts' Medford course, the Beaver harriers won a mixed victory last Friday, with the varsity triumphing resoundingly, and the freshmen coming in behind Tufts and tied with the University of Massachusetts for second place.

The varsity team beat Tufts by a perfect score, 15-50. Seven Techmen crossed the finish line before the first Tuftsman did. These seven men, in order, were Jack Farquhar, Larry Berman, Dave Palamountain, Ray Smith, Sture Bengston, Hugh Nutley, and Ian Williams. Jack Farquhar's winning time was 21:54.3 minutes. This clean sweep of all of the first five places made up for last year's imperfect varsity 17-41 victory, in which a Tufts runner managed to come in fourth.

Unfortunately the results of the frosh race are not so heartening. Whether because of insufficient practice, ignorance of the course, or bad running, Tech's cross-country team finished behind Tufts in a tie for second with the University of Massachusetts by an 18-55-55 score. The five scoring freshmen were Vaughan, Carberry, Steel, McArthur, and Schubert who placed fifth, seventh, eleventh, fifteenth, and seventeenth.

There is another cross-country meet today at Providence, Rhode Island

(Continued on page 3)

Annual Debater's Tourney Started, Two Rounds Left

This Tuesday marked the opening of the Annual M.I.T. Debaters' Tournament. First round winners were Sheldon Todd, '57, and Alan Budreau, '57; Virgil Browne, '57, and Emma Duchane, '57; Edward Freedman, '57, and Arthur Schultz, '57; Edward Effros, '57, and John Lydon, '57.

The tournament consists of three weekly rounds, with trophies being awarded to the winning team, and to the best affirmative and negative speakers.

The Tech



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Editorials

A ROSE BY ANY OTHER NAME

When Institute Committee, several weeks ago, brought up the question of curbing "off-campus hazing" by resorting to judicial measures it unearthed an annual topic of discussion with sufficient vigor to incite the several living groups to discuss, and poll student opinion on the matter. This was, we felt, a worthwhile action because its prime result was to start people thinking about the situation.

Although the problem of "rides" has been, and still is closely related to the highly controversial subject of the desirability of Field Day itself, it was wisely divorced from this major topic of discussion. The original motion was intended to do away with an activity which was inherently dangerous and which retained a very real risk of personal injury. Unfortunately, however, the motion quickly lost its original intent during Wednesday's Institute Committee meeting. (See story on Page 1.)

Perhaps the Institute Committee solons were more interested in the nebulous, and overstressed "detrimental and pernicious effects" which they claim this type of hazing has on M.I.T.'s unsullied reputation, than they were in the physical endangerment of the individual. That this might very well be the case was illustrated in the endeavors of Inscomm members to attempt to differentiate between Freshman-Sophomore hazing and fraternity initiation harassing.

Proposed amendments to the original motion tried to exclude fraternity Hell-Weeks from adherence to the proposal, by limiting jurisdiction to "pre-Field Day" and "Freshman-Sophomore" hazing. When these failed, a decision of the Chair achieved the same ends by interpreting group initiations as not falling within the spirit of the law. If this is the case, we have no recourse but to question the value of the motion passed.

We fail to see how hazing associated with Field Day differs in any way, shape or form, from hazing associated with Fraternity initiations. Only two years ago, Hell Week at M.I.T. ended almost tragically for three fraternity pledges, one of whom was sent to the hospital when their car crashed. If such procedures, which result in risk of life do not fall within the spirit of the law, what does?

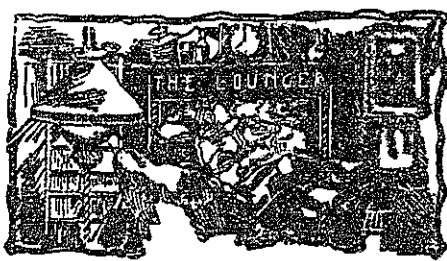
The question was aptly summed up by one Inscomm member who raised a matter of principle. Can we condemn hazing for one purpose and condone it for another? Judicial Committee would certainly be neglecting its duties if it acted in some cases and chose to overlook others.

ANOTHER FORM OF HAZING—THE RITE OF FALL

Judging from the small number of pins and red and grey striped ties which we have been meeting in the corridors lately, there seem to be remarkably few freshmen left of the eight hundred and fifty or so who were here with us but a short month ago. We can discount fourteen coeds who are not usually in the habit of wearing ties. But of the remaining frosh who apparently dislike the Institute's sartorial tastes we can only assume that they left for home because they did not see eye to eye in certain things with Professor Sears and associates, are awaiting transportation to the Institute from Cape Cod (at least until Judicial Committee takes steps to prevent further excursions), or are masquerading as upperclassmen.

The first two cases are understandable. Why a freshman should want to be taken for an upperclassman, however, we do not pretend to know. They have at least three more years during which they can legally claim that unenviable position. At any rate, the rule says that all good freshmen must wear their tie until Field Day—or until New Year if the Sophomores carry the day. Offenders boil in oil for a year and a day, except in a Leap Year when they are made to work for *Voo Doo*, a questionable humor magazine around campus, for the same period.

The above editorial is taken in part from an editorial which appeared once before in *The Tech*. Its appropriate comments have led us to reprint it here today.



by John Seiler, '55

Like many young men of college age brought up in the old tradition, we've been steeped in much ancient folklore regarding the role of women in life. Experience at home had left us smugly certain of man's innate superiority and we happily echoed the old adage, "Women's place is in the home." After years of practice in treating women *not* to feel inferior (although we were certain that they *were*) we spread our dew-covered wings and flapped into Tech. Here we planned on working toward a complete education, safe from the wiles of the flighty female of the species. Little did we know!

It seems that there *are* coeds at the Institute. They are few in number but observant young men sometimes see them in the hallways. They can be found in classrooms, either sitting in loneliness or surrounded by interested males, depending on their charm or lack of it. The quiet ones survive the first weeks of solitude, and all gradually become involved in the routine of studying and in extracurricular activities. None of them are unusual girls, unless intelligence in the female gender is really as unique as we once thought it was. When they're not studying, they go out on dates and practice the fine arts of cooking, baking and soothing the ruffled male — after all, even intelligent girls yearn

for the security and promise of marriage.

Rather than malign or ignore them, it would seem better to treat our coeds with decency and respect. Doing what few girls would dare to do, they are quietly making a place for themselves in a man's domain and doing all this with ability and self-assurance.

Speaking of women, this column has been flooded recently with paeans of praise from local girls' schools concerning the high moral integrity and character of our Tech men.

From Simmon's College comes the following ode by Miss Ruth Weintraub which we are honored to reprint.

Advice to Young Girls

They're not Clark Gables,
 But what the heck.
 The main thing is,
 They go to Tech.

They're usually some sort of engineer,
 (The kind that runs a train, I fear.)
 That they are bright is plain to see,
 But then — they go to M.I.T.

They're more fish up the river,
 So what? Who gives a hoot?
 The greatest hauls that you can catch,
 Are at the Institute.

And if you plan to work right now,
 On an M R S degree,
 I'm sure you're bound to find *THE ONE*.

At good old M.I.T.

New Tech Sports Trophy Presented By Beaver Key

At its first meeting this fall, the Beaver Key Junior Honorary Society announced the introduction of a new trophy, "The Beaver Key Intercollegiate Sports Award," to be awarded to the living group with the largest varsity sports participation. In June, '54, the new trophy will be presented to the group whose members have shown the greatest varsity participation in any and all sports since the beginning of the present school year.

The present proposal for division of living groups will be as follows: each individual in East Campus; Baker House according to floors; Burton House has yet to be divided; each of the 26 Fraternities; the 5:15 club; and all other commuters as the final group. Each of these groups will be eligible to compete for the trophy.

Based On Percentage

The winner of the award will be the living group which has amassed the largest number of percentage points per man over the school year. Three (3) points will be credited to the group a man is associated with

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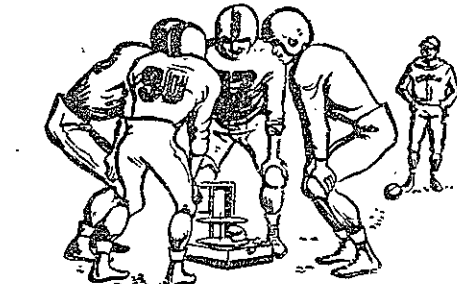
Military Science Promotions Given To 128 Students

The appointment of 128 cadet officers was announced last week by Col. Chas. F. Baish, Professor of Military Science and Tactics. The ranking cadet officer is now Cadet Colonel Philip S. Rane, '54. Also on the list of appointments was Cadet Major Radford A. Mead, '54, as R.O.T.C. Regimental Adjutant.

Commissions For Film

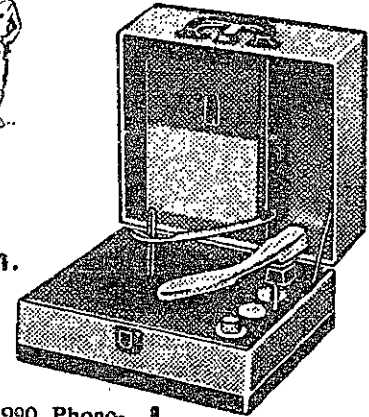
Col. Baish also announced that the Army is now offering direct commissions in the Women's Army Corps to young women upon graduation from college. Those receiving commissions will be given the option of serving on active duty for two years or serving in Reserve Units in their home town.

Cadet Col. Rane is a member of the Quartermaster Corps Unit, a member of Pershing Rifles, Scabbard and Blade, and Rifle Team, and President of the M.I.T. Chapter of Phi Chi Eta. Cadet Maj. Mead is a member of the Chemical Corps Unit, a member of Pershing Rifles and Scabbard and Blade.



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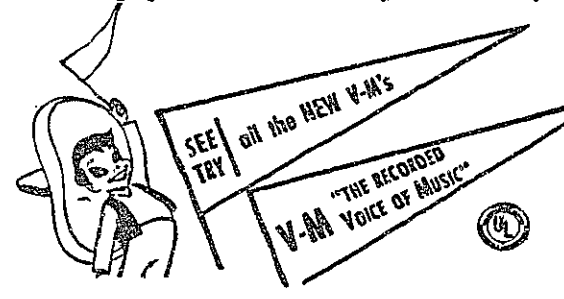
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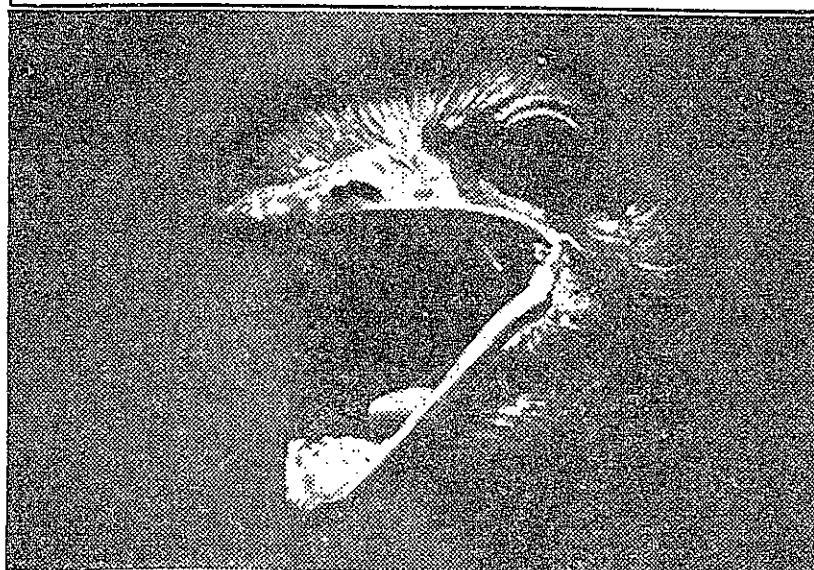


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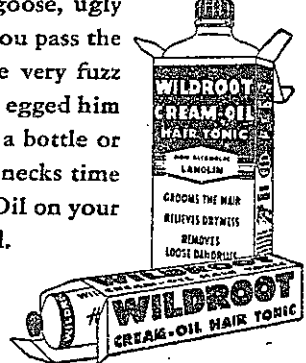
*Slightly higher in the west.



J. Paul Sheedy* Switched to Wildroot Cream-Oil - Because He Flunked The Finger-Nail Test



"Go bury your head in the sand," shrieked Sheedy's chick. You'll never put a wing on my finger until you start using Wildroot Cream-Oil on that messy hair. It's America's favorite hair tonic. Keeps hair combed without any trace of greasiness. Removes goose, ugly dandruff. Relieves annoying dryness. Helps you pass the Finger-Nail Test." Paul looked so good the very fuzz time he used Wildroot Cream-Oil, his pigeon egged him on until he proposed. So why don't you buy a bottle or tube today at any toilet goods counter. And necks time you have a haircut, ask for Wildroot Cream-Oil on your hair. Then no gal will ever give you the bird.



*of 131 So. Harris Hill Rd., Williamsville, N. Y.
 Wildroot Company, Inc., Buffalo 11, N. Y.

Touring Student Tells Impression Of Israeli People

by Benjamin Hayeem, '54

The following is the second in a series of articles by Benjamin Hayeem, '54, describing his experiences during a trip through Europe and the Middle East. Today's article is about Israel.

Such spontaneity! Such unconventionality! Such a blooming forth of the very essence of life! All this I found in Israel, a country of busy people, sometimes rough but nevertheless friendly. The very breath of unceasing activity seemed to find its birth in this little state. Laughter is not heard much; only a grim humor that seems to be a challenge to fate itself. There is no country on earth that presents such a picture of youthful vitality. These were my impressions.

"What is the first thing I should see?" I asked myself, "the people or the place?" I decided on the former



A Coffee House in Israel

approach. The place would always be there, but the people? they would change.

"It used to be so quiet living here," said an old-timer to me, "but when all these new people came in at the rate of a thousand a day, it was hard to keep the country from becoming an

endless race." Everyone of the immigrants had to find something with which to make a living. Brains began working and ideas poured forth. One man transformed his wife and five children into an assembly line for making leather wallets. Another had his family make straw hats. Every-

thing was utilized. Israel is probably the only country in the world that makes use of the fruit of the cactus plant called "sabra," the same term being applied to a native-born Israeli. Very rough and prickly on the outside, it is soft and sweet on the inside.

Hitch-Hiking Trip

On a hitch-hiking trip from Tel-Aviv to Jerusalem, I noticed that the road was lined with these cactus plants. Wishing to pick some of the fruit, I pulled at an inviting sabra. It was like having all the soldiers of Lilliput discharge their arrows at my fingers. Hundreds of little thorns entered my skin and I spent the rest of my trip carefully picking them out one by one. Evidently there was a special way to pick these harmless looking plants, but only those who knew how could capitalize on this knowledge. These few held a "monopoly" over the cactus plant, and I had paid the penalty for encroaching on their territory.

It is a common misconception that Israel is a country governed by religious ministers, but such secularity and complete absence of orthodoxy prevailed that I began to doubt whether I was really in a "Holy Land." Perhaps this state of affairs is due to the rugged way of life of the Israeli. There is little aimlessness in this country. Even the young

(Continued on page 6)

Foreign Students In College

(Continued from page 1)

The last section of the census discusses the foreign student in the community, pointing out that the large incoming exchange movement is a potent force by which people learn about other peoples directly. Many communities have coordinated programs for foreign students, while others arrange informal contacts.

Cross Country Meet

(Continued from page 1)

with Brown and Holy Cross. The entire team will have to travel to Providence, making this one of the longest trips of the year. This is one of the reasons for the harriers eager anticipation of this important triangular meet. Another is that the outcome of this meet will probably determine in large part whether or not Tech has a successful cross-country season this year. Because of this, the Brown-Holy Cross meet is by far one of the fall's most decisive tests as far as our harriers are concerned.

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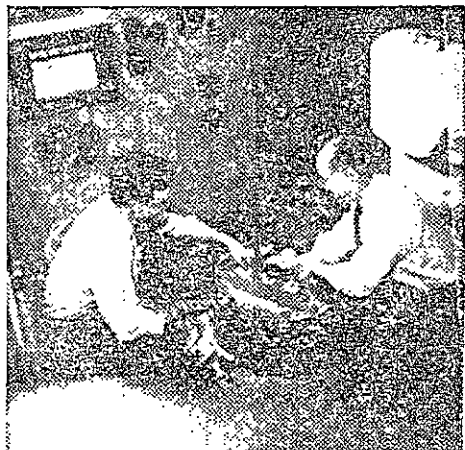
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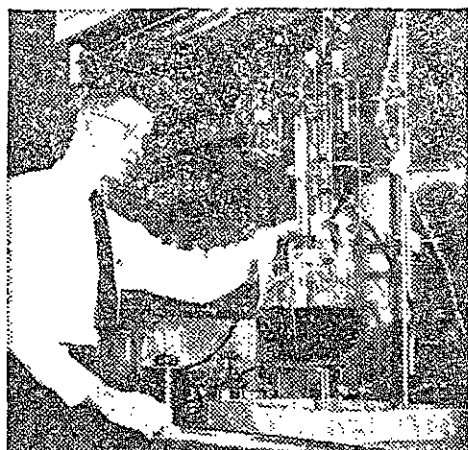


Doing chemical engineering research on a plate in a distillation tower are: C. M. Gamel, Jr., S.M.Ch.E., M.I.T. '48; and J. B. Jones, M.S.Ch.E., Univ. of Mich. '46.

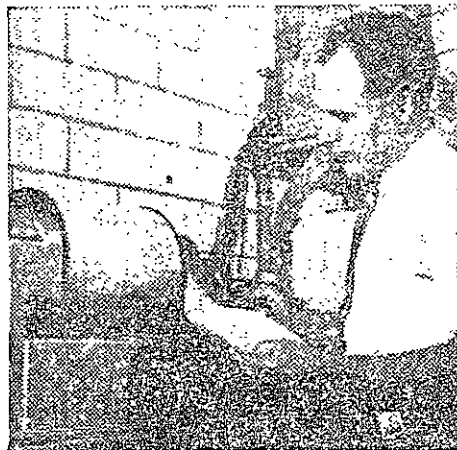
During research on refrigerants, the polymer was discovered and work was begun to make it useful. The new plastic had a remarkable combination of properties; temperature resistance beyond the range of any previous plastic, excellent electrical characteristics, and the highest degree of chemical inertness of any commercial plastic.

In fact, "Teflon" was almost too unusual. Although it melts, it is too viscous to flow like other plastics. It does not dissolve—even in aqua regia. There was no method for molding it or for making it into thin coatings.

The problem of molding was solved with the help of techniques used in powder metallurgy. "Teflon" is now molded by cold pressing, followed by sintering or "fusing" at about 360°C.



Howard E. Holmquist, Ph.D. in Org. Chem., Univ. of Minn. '51, is shown at work on a problem in synthetic organic chemistry.



Research workers have available modern apparatus, such as the infrared spectrometer being used here by Vaughan C. Chambers, Ph.D. Org. Chem., M.I.T. '50.

For coatings, previous research suggested dispersions—minute particles suspended in a liquid. After much study, a team of technical men learned how to suspend particles of "Teflon" about 1/125,000 of an inch in diameter. Then a commercial scale process was devised. This development made possible thin coatings of "Teflon" and also a process for extruding the material.

Meanwhile, another group discovered how to successfully formulate the new plastic into "Teflon" tetrafluoroethylene resin finishes and wire enamels.

The development of "Teflon" illustrates the close teamwork that is the basis of research at Du Pont. But this teamwork doesn't end with research. Bringing the product to commercial reality requires development and design work by chemists and both chemical and mechanical engineers. Next month's Digest will feature information on the opportunities Du Pont offers men interested in this phase of making "better things for better living... through chemistry."

ASK FOR "Chemical Engineers at Du Pont." New illustrated booklet describes initial assignments, training and paths of promotion. Just send post card to E. I. du Pont de Nemours & Co. (Inc.), 2521 Nemours Building, Wilmington, Delaware. Also available: Du Pont and the College Graduate and Mechanical Engineers at Du Pont.



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the bush leaguer

Phi Gams Outslug Sigma Chi; E. Campus, ATO Also Win

by Paul Jay Goldin, '54

Briggs Field was the scene of furious activity over the Columbus Day weekend as eight teams were eliminated from further competition in the touch-football championships.

Phi Gamma Delta needed the fine passing of Coley Bresee, the receiving of Tom Hoffman and Jim Klapmeier, and a hard charging line led by Richie Wilson to subdue an aroused Sigma Chi eight 12-6.

stands now, each house is supplying anybody available, instead of their most competent players for referees.

(This column invites any suggestions or criticism which will produce a better and more interesting article.)

Tech Sailors Third, Second In Contests

Once more the Beaver sailing team found virtually all but Harvard easy competition as they placed third in the Danmark Trophy race on Saturday and Sunday and followed that up with a second in the Oberg Trophy regatta the next day.

Conditions Unusual The first day of the two-day Danmark competition saw a light fluky wind hamper activities. The Beavers fell behind, as Harvard and Princeton paced the field.

On Columbus Day, the Oberg Trophy races were held over a short cross-river course. The wind was again very gusty, and coupled with the short course, made sailing very tricky.

Alain deBerc, '55, and Garcia were the Beaver skippers in the Danmark races, while Wing, Nick Newman, '56, and John Riemann, '54, skippered the Oberg races.

Next Race Sunday The next regatta will be held this coming Sunday, October 18, at Tufts. The Beavers will be competing for the Lane Trophy.

Soph Footballers Need More Men

The sophomore football team coached by Dan Lickly, '54, and Tom Gross, '54, is preparing for the annual Field tussle with the Frosh. However, the '56 pigskinners are in dire need of more men, and this lack of depth could be a marked disadvantage.

Maritime School, Frosh Grid Team Battle Tomorrow WMIT Schedule Of Classical Music

The 28-man freshman football squad will take its "A" formation into battle with the Massachusetts Maritime Academy tomorrow at 2 p.m. at Briggs Field.

According to Head Coach Don Scott, '55, and his five assistants, Mitch Savin, Fred Piercy, Dave Brooks, Dave Scott, and Prentice Cole, all juniors, the probable starting lineup is as follows:

Ends: Ed Vaughn, Bill Dean; Tackles: Denny MacLain, Dave Rees; Guards: Bob Solenberger, Gary Dischel; Center: Lee Bredbenner; Quarterback: Darrel Fowier; Blocking Back: Mike Brenner; Fullback: Kirby Gowen; Tailback: Hank Dieselman.

Other promising candidates, according to the staff of mentors are Claf Kirsten, a quarterback; Kissner, Bruce Fagon, and Joe De Romer, tailbacks; Fritz Hemminghaus, blocking back; and Scott Loring, fullback.

In the line there are also Bob Batchelder, Stan Clark, Bill Doz, and Kyser at end; John Day as a pivotman; Dave Maxon and Bob Laurence at guard, and Malone at tackle.

Ground Attack It is expected that the frosh attack will depend largely upon ground power with no outstanding passer to spark the aerial attack.

The team, according to mentor Scott and his assistants, is a fairly well-balanced one, not especially heavy but consisting for the most part of players who have had two or three years of high school experience.

Coming up on the schedule are games with Thayer School and, of course, the frosh-soph contest on Field Day.

SUNDAY, OCTOBER 18 4-5:30—Music of the Twentieth Century Still: Afro-American Symphony Varese: Ionization Gottschalk: Cakewalk Ballet 6-8—Music Room Mozart Program Divertimento 3 Bassoon Concerto Quartet 21 Horn Concerto Sinfonia Concertante 8-10—Concert Hall Respighi: Pines of Rome Chopin: Nocturnes Beethoven: Symphony 2 Bach: Suite 3 10-1—Feature Concert Lehar: The Merry Widow Adam: Giselle Delibes: Sylvia Meyerbeer: Les Patineurs Bliss: Checkmate MONDAY, OCTOBER 19 8-9:30—Concert Hall Bach: Brandenburg Concerto 3 Beethoven: Violin Concerto Brahms: Liebeslieder Waltzes 10:15-12—Music Immortal Holst: The Planets Copland: Billy the Kid Ibert: Saxophone Concerto TUESDAY, OCTOBER 20 8-10—Concert Hall Beethoven: Coriolan Overture

NOTICE

Coach Jack Summers has requested that all second round matches in the Fall Tennis Tournament be completed by Tuesday, October 20.

Mahler: Symphony 5 Glinka: Russian and Ludmilla Overture 10:15-12—MU-31 Schubert: Symphony 8 "Unfinished" Debussy: Iberia Wagner: Prelude act 3 of Tristan WEDNESDAY, OCTOBER 21 8-10—Concert Hall Beethoven: Sonata 14 "Moonlight" Tchaikovsky: 1812 Overture Mozart: Eine Kleine Nachtmusik Handel: Coronation Anthem Songs of 17th Century England and France 10:15-12—Music Immortal Chambers: All American Strauss: Death and Transfiguration Heifetz: Encores THURSDAY, OCTOBER 22 8-10—Concert Hall Beethoven: Piano Concerto 1 Stravinsky: Firebird Suite Khatchaturian: Piano Concerto Strauss: Don Juan 10:15-12—Music Immortal (Simmons Show) Rachmaninoff: Piano Concerto 2 Borodin—others: Tati-Tati FRIDAY, OCTOBER 23 8-9—Concert Hall Dvorak: Symphony 5 "New World" Anderson: Classical Juke Box 9-10—Music for the Savoyard Gilbert & Sullivan Show from Radcliffe

ENGINEERING SENIORS... North American Aviation Los Angeles will interview here OCTOBER 19 & 20

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Advertisement for Lufkin precision tools, featuring a drawing of a tool and a coupon for a booklet.

ROTC SMOKER

There will be an Arnold Air Society Smoker for all interested AFROTC cadets on Tuesday, October 20, at 5:00 p.m. in the Faculty Lounge, Walker Memorial.

Beaver Key Award

(Continued from page 2)

man who wins Freshman numerals for his winning a Varsity letter. Any or plays Frosh or Soph Football will earn two points for his living group. Managers and those non-letter men adjudged deserving by their coach will be awarded two or three points according to the above system. This last provision is to insure that full credit is given those men who devote full time to a sport yet never make their letter.

Hope To Increase Participation

It is hoped that in this way the Beaver Key may be able to increase varsity sports participation, create more interest in all our sports here at Tech, and award recognition of participation in intercollegiate sports on a par with the existing recognition of Intra Mural participation.

I.D.C. DANCE

An I.D.C. Dance will be held tomorrow night in Morse Hall, Walker Memorial from 8:30 p.m. to 12:00 midnight. Entertainment and refreshments will be provided for the \$1.00 admission price.

After Hours

(Continued from page 2)

Wellesley—If you are lucky enough to have an invitation you can attend the Mixers that are going to be held at Bates, Freeman, Munge, Norumbega, Navy and Stone. It's guaranteed to be a "rat-race." Starts 8 p.m. and includes refreshments. Carleñ Club—This acquaintance dance society will supply you with plenty of hostesses at the Hotel Beaconsfield, 1731 Beacon Street. Admission \$1.25, orchestra.

SLUMMING

"New Worlds in Motion", car show, presented by the Chrysler Corporation at the First Corps of Cadets Armory, near the John Hancock Building. Lasts until October 25. Hours: daily 12-10, Sunday 1-10 p.m. Free . . . e . . . e . . .

"Auas Lucasta" will be presented this week and next by the Tufts Community Players. All seats for the performance in the Tufts College Theatre cost \$1.20. October 16, 17, 22, and 23.

Old Howard Athenaeum—Vickie Welles and her traveling torso.

Engineers Win Over Brandeis, B.U. By 6-1

The Engineer varsity soccer team got off to a very auspicious start, as it triumphed decisively in each of its first two games. On Saturday the soccermen whipped Boston University on the home field, 6-1, then journeyed to Brandeis on Tuesday to capture another 6-1 victory.

The Techmen started fast in both games, and had very little trouble in subduing the opposition, although the Terriers put up a strong battle. The Tech attack was paced by Rafael Morales, '55 and Rafael Chirinos, '56. Co-Captains John Allen, '54 and Fausto Martins, '54 also excelled.

Strong Reserves

The two wins match the entire victory total of last year's squad, which won one and tied one in nine games. With the long sought-for reserves giving the starters an occasional rest, the team should be vastly improved. The next game will be on Saturday, October 17, at Amherst. The next home game is against Tufts on Wednesday, October 21.

October W.G.B.H. Schedule Thursday Through Saturday

THURSDAY

3:30-4:30 News. Weather. The Contemporary Orient. Elmer H. Cutts, Northeastern. 4:30-5:30 A Basic Record Library: Orchestral Music. Consultant: Karl Geiringer, Boston University (4:30-6 p.m., Oct. 1). Tomorrow's Symphony. G. Wallace Woodworth, Harvard. 5:30-6:30 Children's Circle. Nancy Harper, Nursery Training School of Boston, Tufts (except Oct. 1). News. Louis M. Lyons, Nieman Foundation, Harvard. Why the Weather? Charles F. Brooks, Harvard. 6:30-7:30 Music. Bach. The Well-Tempered Clavichord. The Lively Arts. Gilbert Seides. (Rebroadcast). (WNYC). 7:30-8:30 The Boston Community. Oscar Handlin, Harvard (Oct. 1). (Commission on Extension Courses). Stars in the Making. Cecilia H. Payne-Gaposchkin, Harvard. (Lowell Institute Lectures). 8:30-9:30 New England Conservatory of Music. Mu Phi Epsilon Recital. Daniels, Haydn, Procter, Chopin (Oct. 1). Music of the Americas. Phi Mu Alpha Sinfonia. Hindemith, Sowerby, Chavez, Adams, Noak, Roldan (Oct. 8). Berj Zarkochian, organist. Mendelssohn, Bach, Brahms, Liszt, Malein-greau, Dupre, Bingham, Manari (Oct. 15). Founder's Day Concert. Phi Mu Alpha Sinfonia. Buxtehude, Widor, Bach (Oct. 22). Conservatory Orchestra. Richard Burgin, conductor (Oct. 29). News. Louis M. Lyons, Harvard. (Rebroadcast). Weather.

FRIDAY

3:30-4:30 Oct. 2 (3:30-6 p.m.). Boston Symphony Orchestra. Charles Munch, music director. Handel, Brahms, Bloch, Tchaikovsky (Oct. 9). Mendelssohn, Ravel, Beethoven (Oct. 16). Beethoven, Kabalevsky (Oct. 30). (2:10-4:30 p.m.). The Symphony Away. Mozart, Roussel, Mahler. (2:15-4:30 p.m., Oct. 23). 4:30-5:30 Study of English Literature. G. B. Harrison, University of Michigan (Oct. 9, 16). (Boston College 1952 Candlemas Lectures). Future of Science and Science Fiction. Thomas R. P. Gibb (Oct. 23). (Tufts Lecture Series). Writing of the Novel. Elizabeth Bowen (Oct. 30). Boston University Lecture Series). 5:30-7:00 Children's Circle. Nancy Harper, Nursery Training School of Boston, Tufts (except Oct. 2). News. Louis M. Lyons, Nieman Foundation, Harvard. Backgrounds. Music. Copland Chamber Music. 7:00-8:30 Modern Political Thought. Final lecture by Carl J. Friedrich, Harvard (Rebroadcast). (Oct. 2). Tomorrow's Symphony. G. Wallace Woodworth, Harvard. (Rebroadcast). Invitation to Learning. (CBS-WEEI). 8:30-9:30 Library of Congress Concerts. Bach Organ Recital. Paul Callaway (Oct. 2). Budapest String Quartet (Oct. 9, 16, 23, 30). (Continental FM Network—WGMS). News. Louis M. Lyons, Harvard. (Rebroadcast). Weather.

SATURDAY

3:30-4:30 News. Weather. The Russian Constitutional Movement, 1900-1905. George Fischer, Harvard. (Lowell Institute Lectures). 4:30-5:30 A Basic Record Library: Choral Works. Consultant: G. Wallace Woodworth, Harvard. Berlioz, Romeo and Juliet (4:30-6 p.m., Oct. 3). Guest Collector. Richard Burgin, Boston Symphony Orchestra (Oct. 10). Caldwell P. Smith, Boston (Oct. 17). Daniel Pinkham, Cambridge (Oct. 24). William B. Ober, Washington, D.C. (Oct. 31). 5:30-6:30 Our Mutual Friend. A serial dramatization of Charles Dickens' novel (Beginning Oct. 10). (BBC). News. Weather. Review of the Canadian Press. (CBC-WNYC).

6:30-7:30 Music. Schubert Songs. Aging Successfully. (NAEB). 7:30-8:30 Social Psychology, Edward M. Bennett, Tufts. 8:30-9:30 New England Conservatory of Music. Howard Goding, pianist (Oct. 3). Boston Symphony Orchestra. Charles Munch, music director. Handel, Brahms, Bloch, Tchaikovsky (Oct. 10). Mendelssohn, Ravel, Beethoven (Oct. 17). Beethoven, Kabalevsky (Oct. 31). The Symphony Away. Mozart, Roussel, Mahler (Oct. 24). News. Weather.

Frosh Swimmers Prep For Battle; '56 Undermanned

Field Day is still three weeks away, but at this point it looks as though the freshmen will have a big edge over the class of '56 in the swimming meet. While upwards of fifty first-year men have been working out in the pool every afternoon, a mere eight sophomores have answered the call.

The eight were all members of last year's frosh squad and winning field day team. The list includes such stalwarts as Joe Hamlet, Art Albert, Jacob Gubbay, Dick Cryer, Bob Sullivan, Johnny Roberts, Quinn Solem, and Bob Jantzen. These merman have the experience, but in a meet such as Field Day, which is made up solely of relay races, depth is a big factor.

Meet Good For Three Points

The meet, which counts for three points of the Field Day total, consists of two relays, medley (back stroke, breast stroke, and free style) and 200 yard free style. The sophs are allowed to field two teams for each event as are the freshmen. This adds up to a total of 14 swimmers per squad; so unless the upperclassmen overcome their complacency, they seem almost certain to suffer defeat at the hands of their younger rivals. Of course it is possible for the sophomores to win the meet with just eight men, but to do this they must take first place in both races. And there are 50 ready, willing, and able freshmen willing to bet that this will never happen.

Frosh Booters Beat Tufts 4-0

by Ben Chertock

The Freshman soccer team, coached by Arnie Arneson, romped over Tufts Frosh 4-0. Bill Nawy led the Tech scoring, booting two goals in the first period. Ray Stata and Jim Robinson each scored a goal, Ray's coming in the second period and Jim's in the third period. Tufts was overwhelmed by Tech's offense and had little chance to score. The Frosh will try to make it two straight when they meet Harvard here this Wednesday at 3:00 p.m.

Tech's starting lineup: Fleisher, c; Hoyt, fb; Smith, fb; Bowman, hb; Lecocq, hb; Clunies, hb; Anderson, w; Stata, i; Nawy c; Hanbouras, i; Unanue, w.



Up from the bench

OR . . . You can't buck that line unless you break into the line-up

A third-string quarterback named Witherspoon had a Laudable Ambition. He wanted to be first-string quarterback. Particularly to start the opening game under the Admiring Eyes of his Number One Girl. Unfortunately the coach was a Hard Man to Convince. So our hero, undismayed, uncorked a Master Plan.

Two weeks before the opening game, the coach got a Telegram. Message—"Ten reasons why Witherspoon should be first-string quarterback. First, Witherspoon is resourceful. Witness this approach." Each day the coach received a similar Telegraphic Tribute to the Sterling Qualities and Gridiron Prowess of Witherspoon, ending on the tenth day with "Witherspoon knows

the T-formation to a T. Incidentally, his father is considering endowing a new gymnasium."

Who started Saturday? Our boy, naturally. Did very well, too. Played all season. "Just one of my Finds," the coach murmurs modestly, when found in the New Athletics Building.

Nothing puts a point across as convincingly as a Telegram . . . whether you're trying to get a "Yes" out of a Coach, a Chick or that Checkbook at home. (Fact—when it comes to prying Pesos out of a Recalcitrant Parent, a Telegram is just about the world's Best Crow-bar). Whatever your message, it'll Mean More when it goes on the Yellow Blank.



Are we stretching things a bit? Maybe — but when you find out how mild and sweet and refreshing the Medico pipe can be, you'll go for Medico, too! It's the replaceable filter in Medico that makes the big difference. That little filter traps dangerous nicotine and tars, disagreeable juices and flakes.

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COOP NOMINATIONS

The Stockholders at their annual meeting on Wednesday, October 7th, made the following nominations for Stockholders, Officers and Directors:

STOCKHOLDERS: to hold office for five years

- Ralph J. Baker
- Richard W. Thorpe

OFFICERS: to hold office for one year

- President George E. Cole
- Chairman, Executive Committee Stanley F. Teele
- Vice-President, in Charge Legal Matters Austin W. Scott
- Secretary Walter Humphreys
- Treasurer Horace S. Ford

OTHER DIRECTORS

- From Harvard-at-Large { Delmar Leighton, Elliott Perkins, Archibald Cox, John H. Finley, Jr.
- From M.I.T.-at-Large Ralph E. Freeman, Harold E. Lobdell
- From Officers of Harvard Kenneth B. Murdock
- From Alumni of Harvard William J. Bingham
- From Students of M.I.T. Alexander W. Dreyfoos, Jr.
- From Harvard Class of '54 Daniel L. Ritchie
- From Harvard Class of '55 John Timothy Anderson
- From Harvard Class of '56 Vincent R. Larson

COOP PATRONAGE REFUND CHECKS NOW READY

REFUND FOR YEAR ENDING JUNE 30, 1954 IS GUARANTEED AT NOT LESS THAN 10% ON CASH PURCHASES AND 8% ON CHARGE PURCHASES.

REMINDER

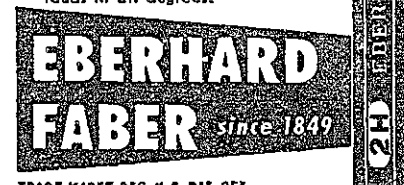
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President Killian's Report

(Continued from page 1)

students — a total of 1,921 — was a new high.

"We have recognized," Dr. Killian said, "an inescapable responsibility to undertake at M.I.T. research in support of our national security which under normal conditions we would choose not to undertake. When national policy and need indicate that our special competence is no longer essential, we shall withdraw from classified emergency research with enthusiasm and relief."

As another indication of the Institute's place in technological education, Dr. Killian cited the "striking fact that in 1953-1954 we shall have 63 National Science Foundation fellows at M.I.T., or eleven per cent of all selected for these fellowships throughout the nation. M.I.T. has been chosen as a place to study by a larger number of these fellows than any other institution."

Goal of Education

"M.I.T.," Dr. Killian said, "seeks to educate men and women who have the competence of high professional standards plus a sense of the first-rate which extends beyond their specialized interests."

Dr. Killian emphasized the continuing importance of "learning by doing," one of the basic precepts of the Institute's founder, William Barton Rogers. This philosophy, said Dr. Killian, means "education for action in 20th Century America. It means that M.I.T. students may acquire a feel for materials, an experimental attitude, theories tested by reality."

Innovations in laboratory instruction and extensive revisions of the undergraduate curriculum are examples of extension of this philosophy during the past year.

"It is our conviction," Dr. Killian reported, "that you can be neither an effective scientist, engineer, executive, economist, nor architect without some understanding of our society and of human relationships. A great institute of technology," he declared, "must have first-rate science and first-rate general education if it is to have first-rate technology."

"Our education in nonprofessional subjects exhibits the breadth of our program. In addition to the basic science he studies, the M.I.T. undergraduate devotes the equivalent of one day out of five to history, literature, and the social sciences, and he now finds these subjects as demanding, as mature, and we hope as bracing as his professional studies."

"It is the outlook, the humanity, the wholeness of the teacher, the humane spirit of a community of teachers governed by ideal aims," Dr. Killian emphasized, "which are really important in achieving breadth and humanism in education. It is also our conviction that education which is truly humanistic must have social utility and relevance to the current needs of society."

"Throughout M.I.T. we are preoccupied with a basic concern for the individual — his adjustment, his growth, his freedom, and his dignity. We can thus exemplify the liberal arts as well as teach them."

Important Development

The most important single academic development of the past year at M.I.T., Dr. Killian told the members of the Corporation, was the revision by the faculty of the curriculum for freshmen — and, in connection with it, a further recasting of the program in general education. Freshmen, he said, now have more choice and greater flexibility in planning their studies; and both freshmen and sophomores will find a replanned curriculum providing a better integration of the humanities and social sciences. Another important development in undergraduate teaching was the resumption of the requirement of a thesis representing independent work for all undergraduate degrees.

Other changes during the year listed by Dr. Killian, included establishment of a Division of Biochemistry in the Department of Biology; replanning of freshman laboratory instruction in physics; a major reorganization of the curriculum in electrical engineering; revision of the history; provision of new graduate undergraduate program in physical chem-

jects in the School of Industrial Management; adoption of a new plan of stabilized enrollment providing for a freshman class of not exceeding 900; and completion of a two-year, \$2 million modernization and space reallocation program.

"Clearly," Dr. Killian said, "M.I.T. is still opening up and occupying an intellectual continent."

Financial Problems

The problems of financing its operations were prominent among the items of unfinished business facing the Institute which were listed in Dr. Killian's statement to the Corporation. "While our level of gifts is gratifyingly higher than before 1949, we have not yet found an approach to long term development which promises greatly to increase funds available for endowment," he said. "We need to be adding four million dollars a year to permanent funds; for the past two years we have averaged nearly \$2.5 million."

In addition, Dr. Killian cited these specific requirements: 1. The Institute has critical need for a physical sciences building, for which is required two million dollars for the building and an equal amount for endowment; 2. scholarship funds to aid undergraduates are inadequate and compare unfavorably with those available at other institutions; 3. funds are needed to assist faculty members to do many things which would contribute to professional development and teaching which cannot be financed out of regular budgets or grants for specific research projects; and, 4. many specific recommendations of Corporation visiting committees cannot be fulfilled because resources are not adequate.



Hayeem's Israeli Lady-friend and her Family.

Hayeem's Visit To Israeli

(Continued from page 3)

people seem to have a definite aim in life. The boys want to be ministers of government or military leaders, while the girls wish to be wives of these same government ministers and military leaders. Actually, what everyone wanted was a wife or husband, a home, and a large family.

Israeli Beauty

I was struck with the beauty of the female "sabras." These Israeli-born girls possess a natural freshness and attractiveness that does not require the aid of the "armaments" used by American women and M.I.T. co-eds, such as cosmetics, structures under stress, etc. Their beauty sprouts from their way of life. Having made the acquaintance of one such creature, I proceeded to further our friendship by proclamations of her beauty as

compared with that of the girls of America. She took all these advances in silence. I noticed, however, that the girl's mother seemed concerned about my welfare and continually inquired about the state of my health and finances. I was disturbed at such a personal investigation until I discovered that I was favored to become a son-in-law! Much to my extreme sorrow I was forced to disappear from the scene. I don't know whether I will ever encounter such an opportunity again, but I was not prepared to assume such responsibilities at such short notice. My good sense told me that it was time to come back and wind up graduation formalities at M.I.T.

I was determined to return—but taking as circuitous a route as I could possibly find. So, on September 1, I sailed to Genoa. This caused me much inconvenience later.

SELECTIVE SERVICE

The Advisory Committee on Military and Selective Service, Room 14-S136, has a new supply of applications for the Selective Service Test to be given on November 19, 1953.

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LATEST BULLETIN

Brand-new national survey

shows college students prefer Luckies

Last year a survey was made in leading colleges throughout the country which showed that smokers in those colleges preferred Luckies to any other cigarette. This year another nation-wide survey was made—a representative survey of *all* students in regular colleges coast to coast. Based on thousands of actual student interviews—this survey shows that, as last year, Luckies lead again—lead over all other brands, regular or king-size—and by a wide margin! The reason: Luckies taste better.

P. S. Once again we're buying student jingles! \$25.00 goes to every student whose Lucky Strike jingle is accepted for our advertising. So hurry! Send yours in right away to: Happy-Go-Lucky, P. O. Box 67, New York 46, N. Y.



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