

Pres. Killian, Deans To Address Alumni At Tulsa Conference

Out Oklahoma way, a round-up of MIT alumni is considered an occasion of state-wide importance; in fact the Governor of Oklahoma has declared February 2 the date of their next get-together, "MIT Alumni Day", in conjunction with the state's "Golden Jubilee" year.

President James R. Killian, Jr., Dean George R. Harrison of the School of Science, Dean E. P. Brooks of the School of Industrial Management, and four of the Institute's most distinguished professors will participate in a Conference on Engineering and Science, sponsored by the MIT Club of Oklahoma. MIT alumni and professional and industrial leaders throughout the Southwest will attend the all-day conference at the Tulsa Club and the Hotel Mayo. A similar regional alumni conference will be held in Chicago on February 16.

Dr. Jerrold R. Zacharias, professor of physics and first director of the Laboratory for Nuclear Science, Dr. John G. Trump, professor of electrical engineering, Dr. Warren K. Lewis, professor of chemical engineering, meritus, and Dr. Robert R. Shrock, head of the Department of Geology and Geophysics, will accompany the MIT president and his two deans to Oklahoma for the Tulsa conference.

Drs. Zacharias and Trump will speak at the morning session on recent developments in nuclear physics and the application of atomic particles and radiation to current problems in medicine and engineering. Dr. Zacharias perfected the world's first atomic clock and is now chairman of a Physical Science Study Group at MIT which is seeking ways to modernize the teaching of high school science. Dr. Trump pioneered in the sign of high-voltage X-ray and gamma ray machines for research in industry. He has recently been investigating the interaction of high-energy particles and radiation with living and non-living matter, including the possibilities of cancer therapy.

At the afternoon session, Dr. Brock will discuss "The Future of Earth Sciences," and Dean Brooks will speak on "Today's Plans for Tomorrow's Management." Dr. Brock is president of the Society of Economic Paleontologists and Mineralogists and has made important contributions to geological research. Dean Brooks returned to MIT in 1951, after 20 years' experience with Sears Roebuck & Co., to organize and administer the Institute's new School of Industrial Management.

Alumni will be especially interested in Dr. Warren K. Lewis's address "The Future of Engineering as a Profession" at the luncheon meeting. Lewis has been an international leader in petroleum research for decades and has been one of MIT's best known teachers for nearly half a century.

President Killian and Dean Harrison will speak at the dinner that concludes the conference. Dean Harrison is the author of "What May Be," a new book reviewing laymen the intellectual and spiritual contributions, as well as the material achievements, that have been made by science. He will speak on "Science and the World Ahead."

President Killian's subject will be "Maintaining Our Technological Security." Dr. Killian was chairman of the panel on "What Should Our Goals Accomplish?" for the White House Conference on Education. He also served in many advisory capacities to the defense and intelligence agencies of the federal government. He is particularly concerned with the shortage of professional manpower, and has been a major contributor to long-range plans to solve this critical problem.



This grinning MIT professor, whose specialty is Heat Engineering, will be putting the heat on those students who will be forced to leave the Institute at the end of this term. He is Professor Carl L. Svenson of the Mechanical Engineering Department. Prof. Svenson, as Executive Officer of the Committee on Academic Regulations, will send the fateful exit letter.

Mounting Enrollment Issue Subject Of Student Debate

What is Higher Education's solution to the problems raised by an anticipated tidal wave of applications and enrollments during the next few years? Answers to questions of expansion and selection posed by this development will be sought at a Conference on Rising Enrollments (CORE) sponsored by MIT and the National Student Association at the Institute March 27-31.

Discuss Purpose of College Education

The theme of the conference will be an attempt to define the purpose of education at the college level, to examine the philosophy on which this is based, and to determine how far the colleges can and should go toward accommodating their increased enrollment demands. It is argued by some that a solution which is purely expansionary will only abate the trend temporarily, and in the end possibly degrade present educational standards. Rather than try to expand present teaching staffs and physical facilities in order to absorb the growing demand, an alternative suggestion has been proposed. This would involve effectively limiting educational opportunities, as, it is argued, will eventually be required anyway, and the creation of an "intellectual elite."

Students Hold More Responsibility In New Financial System

There was initiated last year a trial system for the operation of the financial responsibility of the Undergraduate Association.

The system now is run under two heads, the Finance Board and the Finance Committee. The former now functions on a full-time basis, and is concerned with the policy and establishing of the budget. Together with the Activities Coordinating Board of the Administration, the Finance Board will, at intervals of three years determine the total amount of the Administration appropriation. This figure will be based on a unit appropriation per undergraduate student and, except for fluctuations in enrollment, will remain constant for the three years. During this period the Finance Board will annually determine only the distribution of the funds. The first appropriation will be decided upon in the spring of this year.

The Finance Committee will be concerned with the execution of the policies of the Finance Board and administration of the budget. It will also examine the duties, responsibilities, and problems of the various activities, acting generally in an advisory capacity.

Before the change, the budget problem was resolved annually, on the basis of an evaluation by the Finance Board and the Administration hierarchy of the claims of the committees and activities.

The purpose of the new system is to delegate more authority and responsibility to the organs of student government.

Conscious of this greater responsibility, the Finance Board and Committee is now realizing and attempting to solve problems that formerly lay outside both their capabilities and their defined powers. "We are attempting to lay a new foundation for financial operations," said Jay

(Continued on page 7)

Campus Weighs Weymar, Awaits Amstutz Candidacy

Even though the election of the new officers of the Undergraduate Association is a month away, only one announcement of candidacy has been made. Since last week when F. Helmut Weymar '58, officially opened the UAP election race, there has been widespread concern on campus as to his abilities and qualifications.

Amstutz To Enter In February

Meanwhile, Arnie Amstutz '58 has indicated that he will formally enter the UAP race early in February. He did not comment on Weymar's candidacy.

In his first announcement, Weymar listed six problems particularly deserving the attention of the Institute Committee: compulsory ROTC, the curriculum, freshman orientation, parking, required commons meals, and student housing. The response to this can be summarized in the words of Dick Brandes '57, dormitory Inscomm representative: "Aside from Freshman orientation which is a relatively new problem, the topics listed have received much investigation; Helmut does have ideas on the freshman program, though." Even though the general consensus of opinion was that most of the topics had been thoroughly discussed, Bob Jordon '58 felt that a better understanding of the report of the Ryer Committee was needed on student housing and commons meals—one of the jobs which Weymar mentioned.

The "New" Philosophy

Concerning the "new" idea of an Inscomm governed by the Institute administration, which Weymar felt would clarify matters, Bob Hecht '58, East Campus representative, said, "The 'new' philosophy is not a new philosophy, and doesn't clarify anything." All of those interviewed, however, did feel that this theory is correct.

Weymar "Capable"

Jim Benenson '58, class representative to Inscomm, when asked about Weymar's abilities, said, "A UAP

should be organizational, far-thinking, and dynamic. Helmut is perfectly capable for the job; he has proved it in other activities." Larry Andrews '58 went on to say, "He has thought a lot about the campaign, has initiative, and can put power back into Inscomm." Bud Long '59, class president, added, "He must have a good knowledge of the inner-workings of all of the activities and the school itself. Helmut is one of those who does have these qualities. A person who wants the job should spend a lot of time investigating it, and he has done that."

"A Good Leader"

Tom Thomas '57, current UAVP, commented, "Although Helmut has attended many meetings, it would have been better had he served on Inscomm. He gained a lot of experience, though, by serving on Liaison Council. He is a good leader, and has specific policies in mind."

Although Weymar has never officially served on Inscomm, Bob Jordon felt that experience was not a pre-requisite. Walt Ackerlund '58 said, "He thinks well, stands up for what he feels is right, and knows what he is doing. He'll do a fine job if he 'keeps serious'."

"A Fair UAP"

On the other hand, Bob Hecht remarked, "Helmut would make a fair UAP, but not a really good one." Unavailable for comment were Mal Jones '57, present UAP, and Dick Hughes '58, chairman of Secretariat.

Although there have been no announcements as to UAVP, there have been indications that the candidates may hand-pick their runningmates.

Petitions In Litchfield

Nomination petitions for the Inscomm offices are available in Litchfield Lounge. Elections will be held on February 19. Petitions may be taken out for class offices following vacation; the elections will be on February 26.

New The Tech Constitution; Possibility Of Daily Issue

A new *The Tech* constitution will be presented soon, it was learned early this week. Coming as a result of meetings of Executive Committees of Inscomm and the paper's two-man managing board, the constitution will be read and explained for the first time at the publication's annual banquet Thursday night.

The Tech has not had a major constitution revision in over fourteen years; according to editor John A. Friedman '57, "the present constitution is outdated and therefore unsound in the light of present operating conditions." The new plan will be radically different from that which now exists; and will be far reaching in its effect.

The re-writing was done by Editor Friedman and Business Manager Robert Bridgman '57 who compose the present managing board of the publication. Approval must still be given by Activities Council, and a part of the constitution which deals with *The Tech's* relationship with student government must meet with Inscomm's approval.

Another committee has been appointed to consider the possibilities of making *The Tech* a daily paper; this group consists of representatives of living groups, the managing board of *The Tech*, other student publications, and the Administration. At the present time, daily operation of the

newspaper is the topic of a joint thesis; the co-authors are Friedman and Bob Koch '57, general manager of *TEN*.

The major problems to be overcome if a daily is to be established are personnel and printing. A daily paper must have its own printing facilities due to the time restrictions; its staff must be large—the Harvard Crimson employs three separate staffs, each of which handles two papers a week. Many daily college papers pay members of their managing board due to the phenomenal amount of time which such a post demands; the lessening of academic loads is also often permitted. Among other things, at least one wire service would probably be necessary to expand the scope of coverage.

The Tech was a daily in the early part of the century; since then it has put out either two or three issues a week. There is much sentiment that a daily paper could be a success now; Dean John T. Rule states, "MIT can support a daily newspaper, our campus is ready for such an operation and it is needed."

THE TECH

This is the last issue of volume LXXVI. The first issue of the next volume will appear on Friday, February 8.

OLYMPIC PERFORMERS

Some tickets are still available for Wednesday night's great Olympic performance to be given in MIT's Alumni Pool. Beginning at 8:15, the show will feature the Hungarian water polo team, Olympic champions, and other Hungarian and Rumanian athletes. Special student price tickets are available for only \$2.00 at the AA office, Walker Memorial.

The Tech



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EDITORIALS

Eternal Vigilance

Dormitory Council's recent move to assume rights to search any room has created a controversy among the various dormitory government members. The new system would permit search in the presence of any two of the following students; the House Chairman, the House Judicial Chairman, the Dormitory Judicial Chairman and the Dormitory Council President. An added requirement, which seems absurdly redundant requires the presence of a search warrant signed by one of the four officials.

Advocates of the plan emphasize that it would be utilized only when there is an element of personal danger involved and the Dean, required to be present under the old system, was not available. Assurances, no matter how well intended, are scant protection against misuse of this rule. American law guarantees the individual citizen against search without due process of law and the difficulty of obtaining a search warrant gives an excellent check on ambitious investigators. The rights of the individual are perhaps, the most important part of the Constitution; and the provisions safeguarding them, a vital part of our law.

The Institute community—or any other university group—cannot, of course, fully assure these rights. It is an individual group and must add some limitations to insure its existence. These limitations must be kept to a minimum.

Provisions for search are, under our present system, necessary. It is equally necessary for the protection of individual rights to make these provisions as restricted as possible. There is no question of student responsibility involved in the issue. There is merely the same issue as—on the national level—the responsibility of the police forces. If there is no need for relaxing the restrictions on right of search, there should be no such relaxation.

The Dormitory Council plan fills no new need. The Dean or, in his absence, an acting Dean can or should always be available in cases of emergencies. It will not always be possible for him to appear in a few minutes; it will be even more difficult, as a general rule, to obtain two members of the four man proposed search group. Should there be a need for immediate search in the event of a dangerous emergency, neither system is entirely satisfactory and no improvement is added by the new plan. Cooperation and common sense now answer the need for emergency search; they will continue to be satisfactory.

The new proposal offers no advantages and poses a dangerous threat. It is eminently undesirable.

The Summing Up

This has been an eventful year for the Institute. From the Clark tragedy, the hazing disputes, the Charities Carnival fiasco to the Ryer Report and the Struik decision, it has

been a year of controversial and outstanding incidents. It has also been an eventful year for *The Tech*. Marking its seventy-fifth year since its inception in November of 1881, the newspaper has reached what future years may well recognize as a pivotal point.

Out of the student government—*The Tech* dispute has come the realization of a need for defining its position in the Institute community. The publication and the student government have together taken cognizance of the probable need for a daily newspaper, and acting together, have set up a committee to investigate the question. Its findings may be a springboard to a new *The Tech*. But this is in the future, the basis is in the present.

Editorially the past year has marked a new approach. A great number of subjects have been covered; but there has been, as has often been lacking in the past, a more overall viewpoint attempted and more attention devoted, to what lies behind the events than to the events themselves. The campaign has not always been successful; but, we feel it has been valuable.

The editorial responsibility has and always will lead to controversy. If it has presented new and valid ideas, controversy will be its shibboleth of success.

We have recommended a reexamination of curriculum and teaching methods and can now only reiterate an appeal for awareness and consideration of the problem. We have stressed the necessity for an overall point of view on planning, through criticism of the Ryer Report. That need still exists, it should not be overlooked. We have emphasized the need for understanding the position of the student government and of the newspaper in the university community and have outlined what we feel to be their roles.

We have discussed the more subtle threats to freedom in the subtle pressure of public relations and have stated the need for protection against this danger. A controversy arose when we discussed national events. In the modern Institute community, national affairs are often of as much interest and importance as local affairs and, if the Institute newspaper can make a contribution to the community, it must make an attempt without regard to limitations of its normal sphere of action.

Overall, we have urged the full and rational consideration of every event and its consequences; we have stressed the need for integrity, intellectual courage and rationality. We may not have succeeded in all attempts, we may have failed in both. But if we have caused some people to think, we will have made the Institute a better place than we found it.

We will not have failed.

Ave Atque Vale

With this issue, Volume LXXVI of *The Tech* becomes history. For the Managing Board of this volume, it has been a unique, an enjoyable and rewarding experience. We are confident in our expectations for Volume LXXVII.

The new Board has not yet been announced. Traditionally it is named at the annual staff banquet. It will be announced Thursday. To the members of the new Board and staff we wish success and say hail and farewell.

reviews

At 8:30 p.m. Saturday evening the MIT Choral Society presented a very successful concert in Kresge Auditorium, continuing a fine musical season at MIT.

The program consisted of Gabrieli's "Jubilate Deo", a composition scored for double chorus and brass choir; the Handel Organ Concerto in F major with David C. Johnson, organist; and Hayden's "Theresa Mass" for orchestra, chorus, and soloists.

Of the three pieces, "Jubilate Deo" was definitely the best from a technical standpoint. The piece itself is very colorful, with its peculiar scoring of double chorus and brass ensemble. It is not a completely emotional nor a completely logical composition, but rather a happy combination of the two qualities with very intense moments. The Choral Society brought out excellently the rich harmonies of this piece which expresses an extreme, but unstatic, happiness.

The Handel Organ Concerto was an admirable and surprisingly excellent performance. The Hayden Mass, which followed the Organ Concerto, was quite similar to the Gabrieli piece in its lack of extreme emotionalism. The composition as an expression of different moods in a concise and complete manner. This work stands apart technically from the majority of Hayden's other works in that it is quite often chromatic, and free in the use of key. Despite excellent solo work and occasional bright spots such as the jubilant "gloria" chorus, the choral societies performance of this work did not quite come up to the quality of "Jubilate Deo".

In this concert the choral society proved by its excellent performance that it is once more approaching the professional sound and unity it displayed before its trip to Europe last summer.

—G. H. Haines '58

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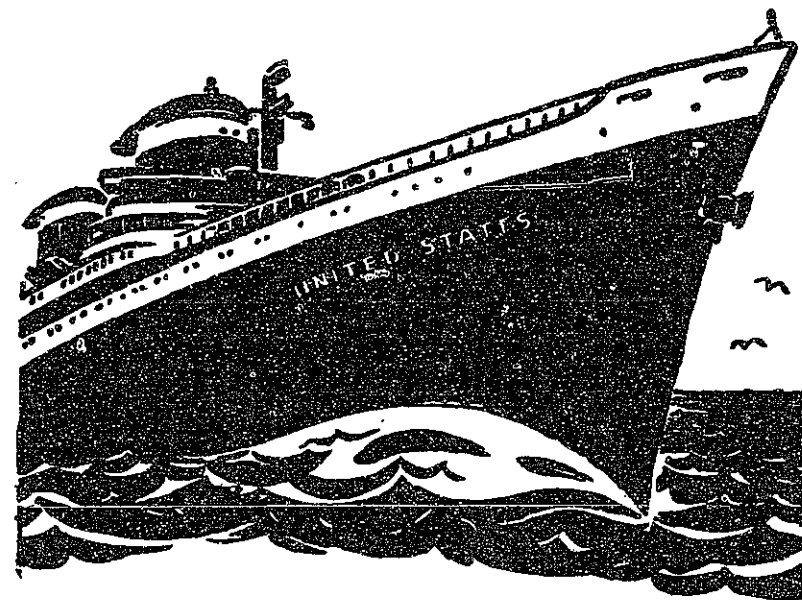
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INTERVIEWS

at Placement Office on February 7

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the college world

Here at Tech we constantly hear complaints about the commons meals until now they are supposed to be a definite problem which the institute seems to be trying to solve by bringing in outside caterers. Yet to really intelligently appraise our commons meals we should know the conditions in other colleges.

At the University of Miami "one of the loudest, longest and most agreed upon gripes from cafeteria patrons concerns not quality or price of food, but the basic element of cleanliness.

"It is as unpleasant to go through the lines and pick up trays which are wet and sometimes dirty as it is unusual to find tables devoid of mounds of empty trays.

"The situation is made worse by pools of spilled salt, sugar, and leftover food scraps that remain on the tables long after untidy eaters have left to make room for new tides of hungry ones.

"Heightening the unpalatable atmosphere, flies bother patrons and buzz their food."

While the tables in Walker, especially during the 1 to 2 lunch hour are piled with dishes and trays, we aren't this bad. Of course these piles of trays are a problem especially when you're trying to find a place to eat when Walker is crowded. Perhaps an arrangement similar to the one employed at Harvard where each diner carries his dirty dishes and tray to a window in the dish room could be instituted to alleviate this condition.

"Board not to be paid unless meals improve, coeds state in petition" headed a story in the Daily Pennsylvanian of the University of Pennsylvania. "The petition signed by 127 women also calls for either improved food or a split room and board system. This would enable women students to have a free choice between eating at Sargent Hall and eat-

ing elsewhere." The story continued, reporting complaints of unvaried menus, a deteriorating of the quality of the food over the years, sickness caused by one meal of chow mein, leftovers served at the Saturday night meal, etc. One of the biggest complaints was that some of the students had to pay for meals they never ate under their compulsory commons. Some more picturesque complaints were that the kitchen is "filthy and bug infested" while one coed exclaimed, "There was a bug in my salad tonight!"

The University of Connecticut newspaper relays to us that "more than 1,200 University of Michigan male students rioted Sunday night (12-2-56) because of what they called the poor quality of the evening meal. The men were all dormitory residents.

"The riot began with shouting and thumping plates and silverware in unison in one quadrangle dining room during the evening meal, which consisted of corned beef, Swiss cheese, vanilla pudding, and milk.

"The disturbance quickly spread from dining hall to dining hall, until dormitory officials closed food lines, and cleared the rooms. Police were called to the scene and were assaulted with snowballs. A group marched to the home of the school's president where they were advised to 'take your complaints through the proper channels,' by the dean of men."

Compared to the University of Michigan and the University of Pennsylvania we might not have as bad commons meals—at least the infirmary isn't overflowing with cases of food poisoning, and we don't have riots, at least food riots. Granted, our food isn't as good as that in at least one dorm at the University of Indiana where they have "steak about once a week and one of the complaints is that there is too much food" but it surely isn't as bad as some colleges. The Institute is trying to improve the meals, but before they do anything let's hope they delve into the problem, perhaps studying other colleges in the area for ideas.

—Carl Swanson '60

New Applied Math Division For Brookhaven Nat'l Lab

The formation of an Applied Mathematics Division at Brookhaven National Laboratory was announced recently by Dr. L. J. Haworth, Director of the Laboratory. Dr. Milton E. Rose has been appointed Head of the Division, and will assume his new duties in early February 1957. Dr. Rose comes to the Laboratory from Washington, where he is a mathematician with the Office of Naval Research.

As its main tool, this new division will operate a high speed digital computer, for solving problems mainly in basic research and engineering development work. The final design characteristics of the computer are being planned jointly by members of the Applied Mathematics Division and the Instrumentation Division, under the direction of William A. Higinbotham, Head of the latter Division. Construction at the Laboratory has already started on the machine, which is expected to be equal in its operational capacity to the most advanced computers produced commercially. Completion is expected in less than two years. It is being designed and built at Brookhaven so that it can best attack the special problems for which it will be used. These will include such mathematical research problems as are encountered in the design of the 25 billion electron volt accelerator currently under construction at Brookhaven, new types of reactors, and in computations in the fields of chemistry,

physics, biology and medicine.

This high speed computer will be a descendant of the computer at the Institute of Advanced Study at Princeton, which was designed by Dr. John Von Neumann, outstanding pioneer in the electronic digital computer field and now one of the Commissioners of the ABC. It is patterned after the Maniac II computer recently developed at the Los Alamos Scientific Laboratory, which has a (Continued on page 8)

Tau Beta Pi Honors 5 Alumni, 2 Women In Annual Ceremony

In initiations held last month the Massachusetts Beta chapter of Tau Beta Pi, located here at MIT, awarded Women's Badges to two people and initiated five alumni members. The alumni of the Institute taken in were Professor Jay W. Forrester, Professor George C. Manning, Rear Admiral Armand M. Morgan, and Professor Horton G. Stever. In addition Professor Claude E. Shannon, a graduate of the University of Michigan, was initiated. The two Women's Badge recipients were Mrs. Florence F. Buckland, and Miss Beverly J. Beane.

Professor Forrester is a co-founder of the servo-mechanisms laboratory at Tech, a former supervisor of the Whirlwind I computer development, and founder of the Digital Computer Laboratory, of which he was director until this year. In 1951 he became a division head at Lincoln Laboratory in charge of developing and engineering the SAGE air defense system.

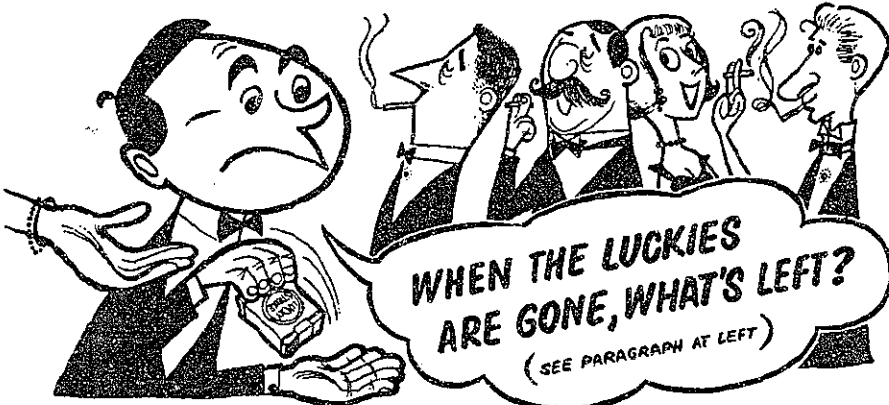
Professor Manning, a graduate of the United States Naval Academy at Annapolis, is now a professor in the Department of Naval Architecture and Marine Engineering. He has served as a professor or instructor at the Naval Academy, King's College, MIT, and Durham University, and has written a large number of definitive texts and papers in his field.

Admiral Morgan's academic eminence first became noted when he graduated first in the Class of 1924 at the Naval Academy. He is now Deputy Chief of the Bureau of Ships for Design and Research, where he is regarded as one of the top authorities on submarine design, particularly that associated with nuclear submarines. In addition to membership in many technical societies and his many duties with the Navy, Admiral Morgan has found time to take an active interest in course XII and its students.

Professor Stever is now a Professor of Aeronautical Engineering at MIT and has recently been appointed Associate Dean of the School of Engineering. During the Second World War he did radar and guided Missile field work in London for the Army, and in 1955 he was appointed Chief Scientist of the U. S. Air Force. Also he has written many papers on aeronautical and physical subjects.

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Blue Gnu

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Fragrant Vagrant

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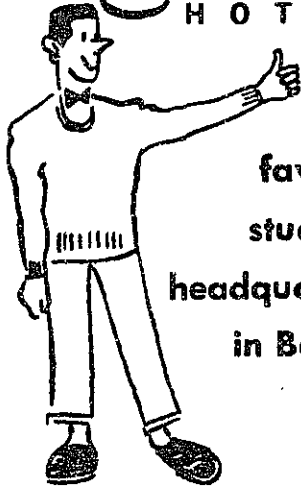
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Fencers Top Trinity With 17-10 Margin In Season's Opener

The MIT fencing team opened their season with a 17-10 victory over Trinity College of Hartford, in a three-weapon meet here Saturday. The winners were led by Roy Norris '57, and Larry Campbell '59, who each won all three of their contests in epee and sabre, respectively. Lockie, fencing foil, was undefeated as he paced the losing Trinity team.

Individual competition in each weapon also ended with MIT ahead, as they copped 6-3 victories in sabre and epee, and a 5-4 win in foil. This was the first meet of the year for both teams. MIT's next contest will be with the University of Connecticut at home.

The other Tech fencers, with their records in parentheses, were: Foil: Mike Fein (2-1); Barry Shabel (2-1); Ted Quist (1-2). Sabre: Ben Edwards (1-2); Ray Wehrmeister (1-Wempen (2-1); Les Dirks (1-2).

CREW WORKOUTS

Workouts for all crewmen are now being held weekday afternoons in Rockwell Cage. All varsity and freshman oarsmen who expect to row this spring should plan to attend.

AA Insurance Plan Covers All Students

This past September, the MIT Athletic Association's new insurance policy went into effect, it has just been announced. It covers every Institute student who is a participant or spectator at any athletic activity at MIT. This includes not only intercollegiate and intramural contests and practices, but also all other athletic activities providing the injury occurs to a student on the MIT athletic field. The policy also covers our contestants while participating in intercollegiate sports away from MIT, as well as all our participants traveling to and from the contests. This includes travel in private cars under the sponsorship of a coach.

Augments Student Insurance
The insurance is designed to assist financially any student who suffers so serious an injury that the Student Health Insurance and similar plans do not cover the entire cost. For this reason the policy covers only those accidents which cost an individual more than one thousand dollars in medical expenses. The new policy, in conjunction with the Student Health Insurance or a similar plan, should prevent any student from having to discontinue his education due to the financial expense of athletic injuries.

bush leaguer

Hohorst MVP--SAE Dominates All Stars

by F. Thomas Bond '58

Last of a long list of all star football teams chosen across the nation, *The Tech's* seventeenth annual intramural team is headed by a host of players from SAE which for all purposes has racked up its third straight school championship. Cold weather has caused the stoppage of play in the finals with one game remaining for each team. The sailors have only to top twice beaten Beta Theta Pi for the championship—second place must still be decided though, as both Theta Chi and Phi Gam have whipped the Betas while losing to SAE. Whether these games will be played or not will be decided next term in the intramural council.

This year's all star team is headed by Pete Hohorst '57, SAE's star halfback and unanimous choice of *The Tech's* sports staff as the most valuable player of the year. An example of Hohorst's talents is the fact that he scored 3 of SAE's 5 playoff touchdowns, passing for one of the other two.

Close behind Hohorst must come his teammate Walt Humann '59 whose perfect passing brings him the title of back of the year in a close race over Theta Chi's Hank Moesta '58 to whom goes the most improved player title. Lineman of the year was another close decision with such names as McCulloh, Loring, and Layson to choose from, but chosen for his overall work horse ability and spirit is Phi Gam's John Irwin '58.

The intramural football all star teams for 1956:

FIRST TEAM

- Offense**
LE—Fred Browand '59, SAE
LT—Bob McCulloh '60, SAE
C—John Irwin '58, Phi Gamma Delta
RT—Scott Loring '57, Theta Chi
RE—Nick Hurst '60, Theta Chi
QB—Walt Humann '58, SAE
HB—Hank Moesta '58, Theta Chi
HB—Pete Hohorst '57, SAE
- Defense**
E-T—Lee Bredbenner '57, Theta Chi
C—Dave Berg '58, SAE
E-T—Dick Burgie, Lambda Chi Alpha
LB—Dan Holland '58, Delta Tau Delta

- LB—Hal Smith, Phi Gamma Delta
LB—Al Richman '57, Theta Chi
HB—Pete Hohorst '57, SAE
HB—Chuck Ingraham '58, Phi Gamma Delta

SECOND TEAM

- Offense**
RE—Larry Flanigan '57, Sigma Chi
RT—John Roberts '57, Delta Upsilon
C—Bill Layson '56, Phi Delta Theta
LT—Fritz Herminghaus '56, Beta Theta Pi
LE—Bob Thompson '58, SAE
QB—Walt Ackerlund '58, Phi Delta Theta
HB—Don Aucamp '57, Phi Gamma Delta
HB—Gordie Nutt '58, Beta Theta Pi
- Defense**
E-T—Tony Vertin '57, ATO
C—Dick Sherman '58, Baker House
E-T—Bruce Blanchard '57, Phi Gamma Delta

- LB—Jim Russell '59, Beta Theta Pi
LB—Red Fowler '57, Delta Tau Delta
LB—Al Dammig '59, Phi Kappa Sigma
HB—Murray Kohlman '58, AEPi
HB—Ken Auer '58, Delta Upsilon
Most Valuable Player of the Year: Pete Hohorst, SAE
Back of the Year: Walt Humann, SAE
Lineman of the Year: John Irwin, Phi Gamma Delta
Most Improved Player: Hank Moesta, Theta Chi
Rookies of the Year: Bob McCulloh, SAE, and Nick Hurst, Theta Chi
Games of the Year:
Phi Delt 6—AEPi 0
Phi Gam 7—Delts 2
Most Underrated Team—Sigma Chi
Most Surprising Team—Sigma Alpha Mu
Most Disappointing Team—Graduate House

- Weakest League—Five
Best Team Not to Make Finals—Phi Delta Theta
The Jack Friedman Award (Most Surprising Player): Murray Kohlman
The F. William Daly Award (for best coverage) The Tech
Al Richman Award (for best manager): Al Richman
Team to Beat Next Year: SAE (yes, again!)

A summary of the final standings in each league:

LEAGUE I					
Team	Won	Lost	Pts. For	Pts. Against	
SAE	4	0	115	0	
DU	3	2	41	47	
ATO	3	2	80	29	
Chi Phi	2	2	27	66	
Baker House	1	2	25	80	
Phi Mu Delta	1	2	29	26	
Kappa Sigma	0	2	0	38	
GHDS	0	2	0	41	

LEAGUE II					
Team	Won	Lost	Pts. For	Pts. Against	
Theta Chi	5	1	96	25	
Phi Delt	3	2	44	30	
Phi Kap Sig	3	2	58	46	
AEPi	2	2	101	45	
Sig Ep	1	2	38	51	
Theta Delt	1	2	21	45	
TEP	0	2	0	31	
Phi Kappa	0	2	6	91	

LEAGUE III					
Team	Won	Lost	Pts. For	Pts. Against	
Beta	4	0	122	33	
Sigma Chi	3	2	84	71	
Sigma Nu	3	2	54	24	
Grad House	2	2	39	44	
Burton	1	2	27	37	
5:15	1	2	12	76	
Dekes	0	2	0	20	
Phi B. Ep.	0	2	13	46	

LEAGUE IV					
Team	Won	Lost	Pts. For	Pts. Against	
Phi Gam	4	1	52	14	
Delts	4	2	95	14	
SAM	3	2	33	58	
Pi Lam	2	2	31	48	
Lambda Chi	1	2	32	18	
Theta Xi	1	2	33	47	
East Campus	0	2	6	46	
Phi Sig Kappa	0	2	0	37	

Final Results to Date:
SAE 18—Phi Gam 6
Theta Chi 21—Beta 0
Phi Gam 12—Beta 0
SAE 13—Theta Chi 7

Basketball Finals to Start
With all but one team now qualified for the intramural basketball championship playoffs, the cage season is fast drawing to a close. In League I Meteorology topped Pi Lambda Phi 57-
(Continued on page 8)

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- New York Telephone Company
- The Southern New England Telephone Company
- American Telephone and Telegraph Company Long Lines Department

Applicants will be interviewed for other regional operating companies in the United States and Canada.

WESTERN ELECTRIC COMPANY

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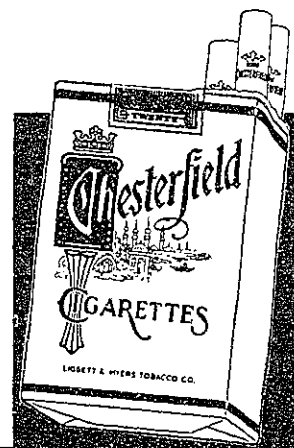


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Instrumentation Lab Helps Military, MIT Programs

The Mark XIV anti-aircraft gunsight was a prime factor in the loss of so many aircraft by the Japanese to the lethal fire of the U. S. Navy during World War II. A small rapid-acting radar-tracking gunsight for use on ships, the Mark XIV was particularly well-known for its effectiveness against torpedo planes and dive bombers; especially since previous sights had been unable to cope with these aircraft. It was also this sight that was altered by the Air Force Armament Laboratory for use as an aircraft gun, bomb, and rocket sight. This gunsight, known as the A-1CM, was largely responsible for the effectiveness of the Sabrejets during the Korean Campaign.

The development of the Mark XIV gunsight was the culmination of several years' work by Dr. Charles S. Draper and his associates. Dr. Draper, who is also in charge of the Department of Aeronautical Engineering, has been in charge of the Instrumentation Laboratory from its inception in 1940 as the Confidential Instrumentation Development Laboratory to the present. He has fathered the development of the Laboratory from an organization comprising several people to one employing approximately 650 people and occupying the entire Whittemore Building. The laboratory also has a flight facility at

Eighty Firms Benefit From MIT Studies In Liaison Program

Industry is keeping its finger on the pulse of technological change and sharing MIT research in a program to help finance education. Eighty companies have joined with MIT in an attempt to build an invisible pipeline between their laboratories and those of the Institute.

The pipeline is the Industrial Liaison Program, ILP for short. President James R. Killian, Jr., sparked its beginnings in 1948, and several private technological schools have since adopted programs of their own, based on the Institute's version. In recognition of unrestricted support of education and research, MIT keeps a fresh flow of basic research information going to participating companies. Member firms demonstrate their enthusiasm for the Program by enrolling usually for periods of five years. The funds received by MIT are used to help pay faculty salaries, maintain buildings in good repair, or to meet other operating expenses that must be covered to keep classrooms open and research humming.

Member companies get a microscopic view of the whole span of MIT research through a program designed to cut down time and distance. The Industrial Liaison Office sponsors informal research conferences privately conducted by the Faculty for participating companies, supplies the companies with laboratory technical reports and preprints of faculty articles, arranges visits by company representatives, and in general acts as a communication link between the Liaison Program companies and the MIT staff. This year, for example, some 800 company representatives are expected to attend twelve private symposia scheduled for one and two full days each. The topic of conversation at these meetings will range from heat transfer in electronics and chemical engineering research to forecasting business trends.

For industry the Industrial Liaison Program is a new and dynamic experience in industry-university cooperation. For MIT the ILP is another link in the long established ties between the Institute and the industrial world.

John L. Leadham Company, Inc., U. S. Post Office Box 303, Framingham, Massachusetts, wants an engineer to be a partner or a "silent partner" of a man 46 years old who has worked with United States engineers on seven seas and on American and foreign soil.

Hanscom Field and the use of Fort Heath at Winthrop, Massachusetts, for anti-aircraft work.

The Instrumentation Laboratory is especially interested in the development of the entire weapons systems from original conception to final manufacture. These systems involve equipment whose direction must be oriented in space through the use of inputs and in the presence of interferences. Such equipment makes extensive use of gyroscopes, accelerometers, and servo-mechanisms as applied with three dimensional geometry. In its own machine shops the Laboratory manufactures all of the various intricate components necessary to carry on its research and experimentation. It became necessary to set-up its own machine shop because many times the experiments required parts of a higher precision than was available commercially. Now, when an item is developed, before it is released for commercial production, the item is checked for conformity to certain specifications, so that it can be successfully manufactured by any skilled commercial machine shop.

Not only has the work of the Instrumentation Laboratory proved valuable to industry and the military, but it has also made a valuable contribution to the Institute. Dr. Walter Wrigley, Deputy Director of the Laboratory and Associate Professor of Aeronautical Engineering, is in charge of integrating the work done in the Laboratory into the courses

(Continued on page 8)

Where do you want to hang your hat?

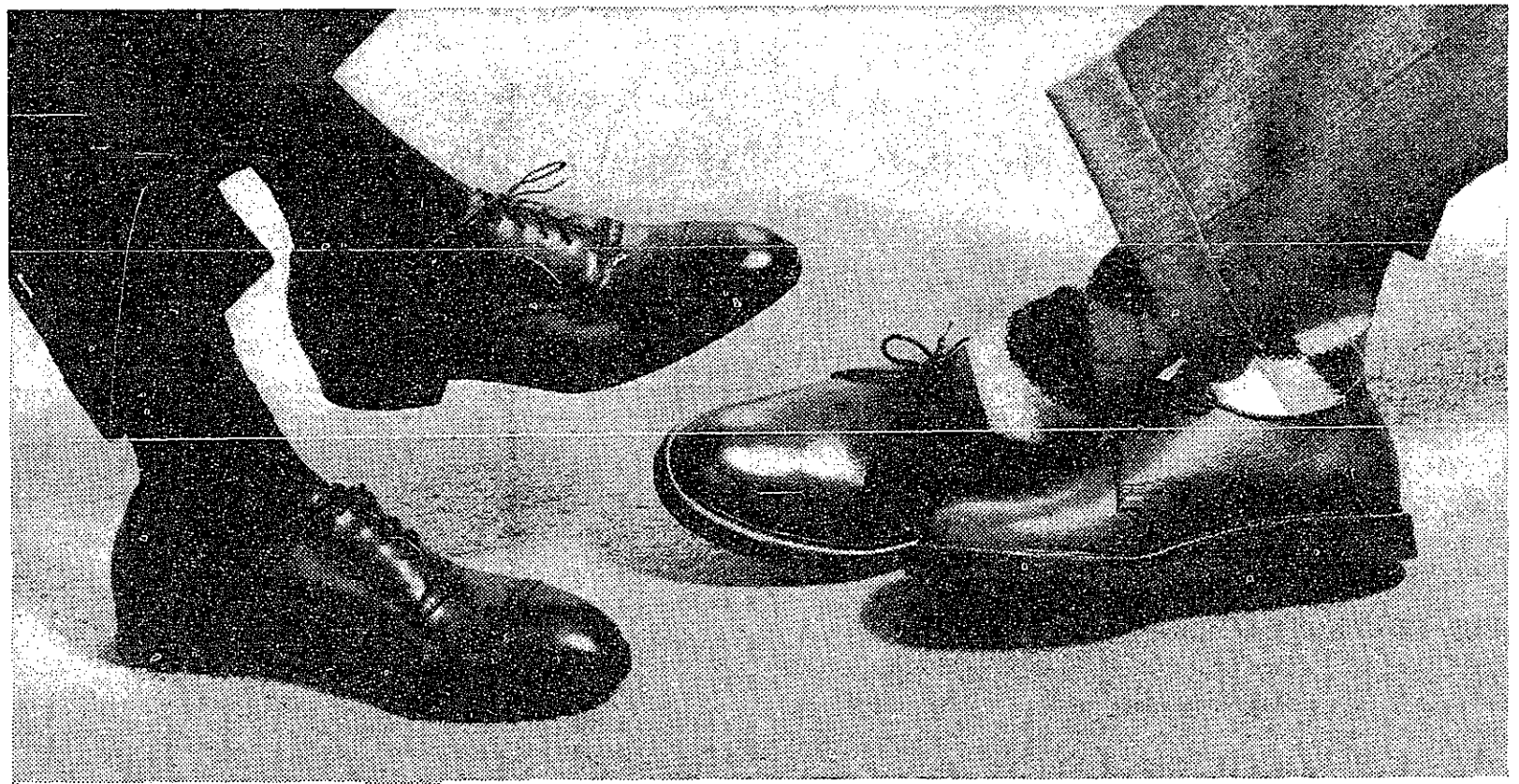
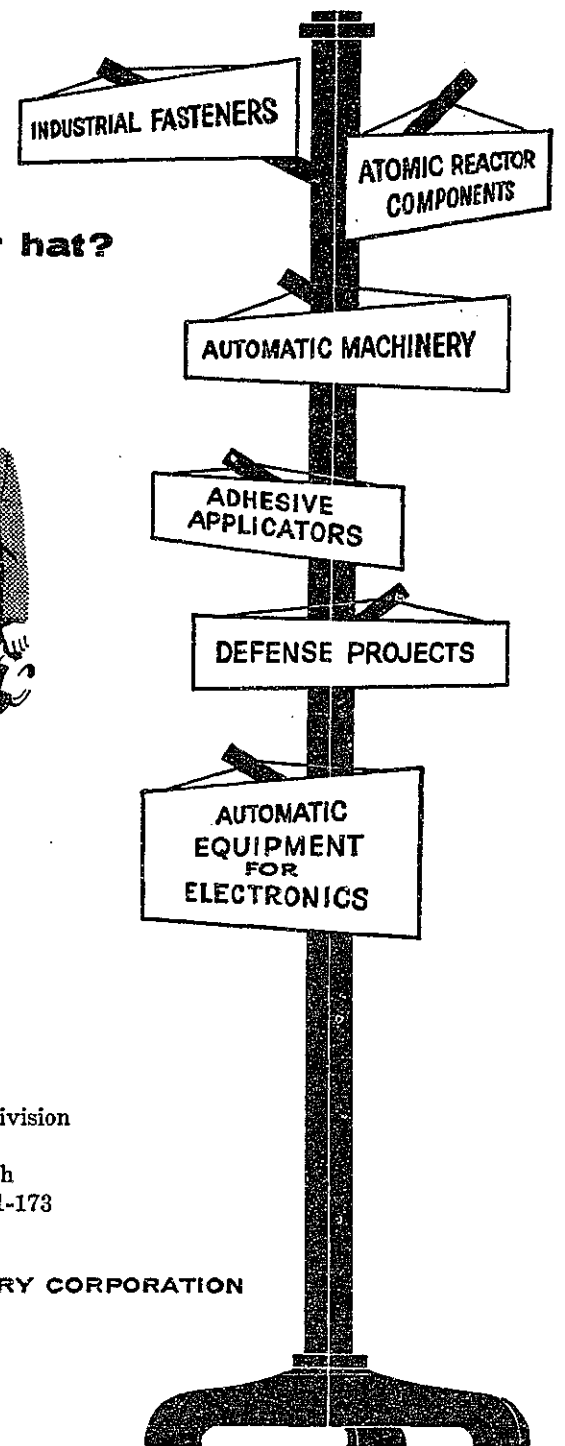
Because your engineering courses cover many sub-fields, each with many different applications in industry, it is often difficult to decide now exactly what kind of work you want to do in the years that lie ahead.

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MR. HARVEY S. BENSON, Personnel Manager, Research Division

You are invited to arrange for an interview through MR. JOE JEFFERSON, Student Placement Office, Room 1-173

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(Put yourself in this student engineer's shoes for a minute as he asks a Burroughs representative some important questions.)

Q. What do you mean I'll start "in the thick of things"?

A. I mean you'll start on the work you're trained for; you won't be a man who gets lost in a shuffle.

Q. What kind of work would be open to me at Burroughs?

A. Research and development in ballistic missiles, electronics, computation, data processing, optics, magnetics, communications and electro-mechanics—to mention a few.

Q. Will all my work be in defense?

A. No. Burroughs is a worldwide leader in the business machines and data processing fields. Of course, we've many defense contracts too. And that involves fascinating work in mechanics, electro-mechanics and electronics.

Q. Are all your plants in Detroit?

A. No. We're really on a global scale. Detroit's the home office, of course. Our big research center's in Pennsylvania. We have plants in New York, Michigan, New Jersey, California and Pennsylvania in the U. S., and in Canada, Great Britain, France and Brazil.

Q. What about my future at Burroughs?

A. We at Burroughs feel that young engineers are the key to Burroughs' future expansion. Though our engineering staff has increased seven times since the end of World War II, we are just on the threshold of our biggest expansion. This, plus our promotion-from-within policy, assures an outstanding future for engineers joining Burroughs now!

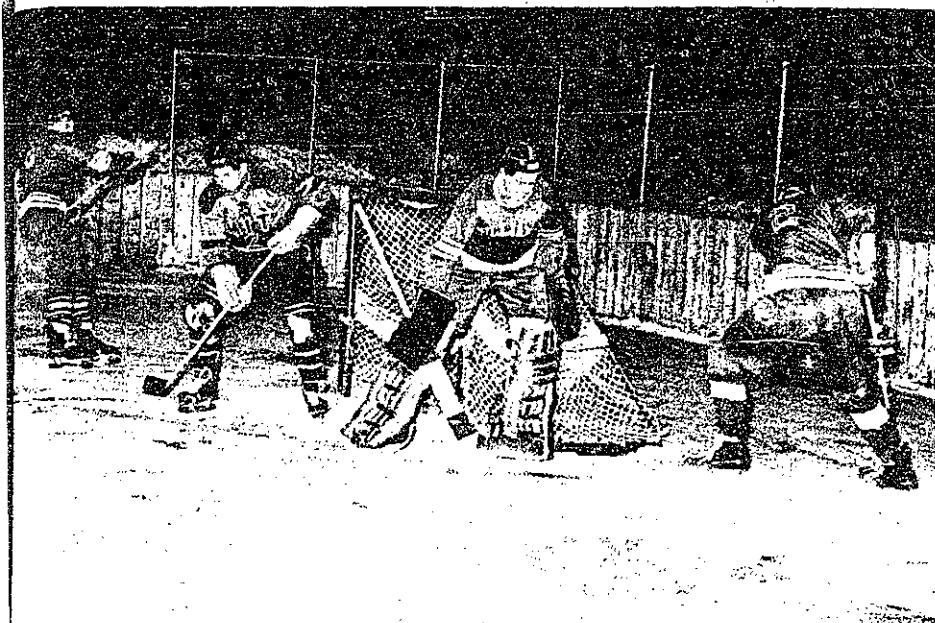
Q. What about retirement plans, hospitalization, vacations—you know, the fringe benefits, I think they're called?

A. Burroughs is noted for these! In fact, Burroughs pioneered many of them. You'll have hospitalization insurance for both you and your dependents, secure retirement, and educational aid programs, paid vacations and sick benefits, to mention a few.

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Williams defenseman prepares to clear puck out of MIT offensive ice after a Tech attack failed to produce a goal. The experienced and depth laden Williams team was way too much for Tech's hard fighting squad which surrendered seven goals in both the second and third periods after holding to a 2-1 deficit at the first buzzer.

Hockey Team Bows Twice; Bowdoin Wins In Overtime

After losing to Williams 16-2 in a terribly lopsided contest Friday night, the MIT varsity hockey team attempted to salvage its week-end by defeating the Polar Bears of Bowdoin in a Saturday night contest at their opponents' rink, but were forced to accept their sixth straight defeat, via an overtime goal, 5-4.

Showing a complete reversal of form from their previous night's game the Engineers hustled, skated and played as a unit, till they gained a 4-3 lead at 2:20 of the third period on a goal by Johnny Weissbuck. Then, with pressure mounting every minute, Tech succumbed as Monstrom scored for Bowdoin on a pass from Thorne. It was this same combination, only playing reversed roles that was to administer the final blow in the extra period.

MIT opened the scoring at 5:38 of the first period when George Peckingham converted a pass from Bev Goodison. Bowdoin retaliated at 9:43 to even the count at 1-1, and continued to fire away till they scored again, this time with but 12 seconds remaining in the stanza.

At 0:27 of the second frame the Polar Bears found the mark again to increase their lead to 3-1, and the "here we go again" blues began to show. But Hank Durwage batted in a Tom Buffett pass at 6:01 and then, less than three minutes later, scored unassisted while Tech was one man down to knot the contest. For the rest of the period the teams battled

scorelessly. Leaving the rink tied 3-3, Tech was giving its finest showing of the season.

The overtime goal was a heart-breaker, from the MIT standpoint, as Thorne batted the puck through a swarm of players in front of the Tech cage, after a defensive pass out from behind the goal had ricocheted off a player into the melee.

Friday night proved to be a mistake for Tech hockey team, as they ran into a power laden, fast skating Williams team. It was bitter cold, and while watching the contest one got the impression that MIT found it just too cold for hockey, for the visitors encountered almost no opposition in their 16-2 massacre. Paul Skala scored both Tech goals, in the first and last period.

Squash Teams Bow To Williams, Brooks

Tech's varsity squash team was soundly outclassed last Saturday as they bowed to a good Williams squad 9-0. Most exciting match of the afternoon was the opener, which saw Tech's Juan Hermosilla back in action after a month's layoff, bow to Oliver Staffon 9-15, 15-8, 15-12, 12-15, 15-9. Number two man, Tom Thomas, went down in 4 sets and Bill Bateman in five as all other Tech players were defeated in straight sets.

At the same time the varsity was bowing, the frosh squash team was shut out 5-0 by Brooks. Bob Hodges, number 1 for Tech, went down in straight sets, as only Pennypacker was able to extend his opponent to 5 games.

FINCOMM

(Continued from page 1)

Hammerness, Chairman of the Finance Board.

An example of this new policy is the attempt of the Finance Committee to cope with the tax problem of the Institute activities. At present, the Institute is considered tax-exempt by the Department of Internal Revenue. The individual activities, however, are not recognized as being in this category, unless their profits belong to the Institute and are entered in the Institute books. Thus, it is currently impossible for those activities able to make a profit to do so unless they include tax in the price of their goods or services.



THE DRESS PARADE

What will the American college student wear this spring? Gather round, you rascals, and light a good Philip Morris Cigarette, and puff that rich, natural tobacco, and possess your souls in sweet content, and listen.

As we know, college fashions have always been casual. This spring, however, they have become makeshift.

The object is to look madly improvised, gaily spur-of-the-moment! For example, girls, try a peasant skirt with a dinner jacket. Or matador pants with a bridal veil. Or Bermuda shorts with bronze breastplates. Be rakish! Be impromptu! Be devil-take-the-hindmost!

And, men, you be the same. Try an opera cape with sweat pants. Or a letter-sweater with kilts. Or a strait-jacket with hip boots. Be bold! Be daring! Be a tourist attraction!



Rock and Roll is giving way to the Minuet

But all is not innovation in college fashions this spring. In fact, one of the highlights of the season turns time backward in its flight. I refer to the comeback of the powdered wig.

This charming accoutrement, too long neglected, has already caught on with style-conscious students all over the country. On hundreds of campuses rock-and-roll is giving way to the minuet, and patriotic undergraduates are dumping British tea into the nearest harbor. This, of course, does not sit well with old King George. For that matter, a lot of our own people are steamed up too, and there has even been some talk of revolution. But I hardly think it will come to that. I mean, how can we break with the mother country when we are dependent on her for so many things - linsey-woolsey, minie balls, taper snuffers, and all like that? She, on the other hand, relies on us for turkeys, Philip Morris, Cinemascope, and other valuable exports. So I say, if Molly Pitcher and those other Bryn Mawr hotheads will calm down, we may yet find an amicable solution for our differences. But let not our British cousins mistake this willingness to negotiate for weakness. If fight we must, then fight we will! Paul Revere is saddled up, the rude bridge arches the flood, and the ROTC is ready!

But I digress. We were smoking a Philip Morris Cigarette - O, darlin' cigarette! O, happy smoke! O, firm! O, fresh! O, fragrant! O, long-size! O, regular! O, get some! - and talking of new spring fashions, let us turn now to the season's most striking new feature: pneumatic underdrawers. These inflatable rubber garments make every chair an easy chair. Think how welcome they will be when you sit through a long lecture! They are not, however, without certain dangers. Last week, for example, Rimbaud Sigafos, a University of Pittsburgh sophomore, fell out of an 18th story window in the Tower of Learning. Thanks to his pneumatic underdrawers, he suffered no injury when he struck the sidewalk, but the poor fellow is still bouncing and it is feared that he will starve to death.

©Max Shulman, 1957

Fashions come, fashions go, but year after year the Philip Morris Company, sponsors of this column, bring you the tastiest, pleasiest cigarette your money can buy - Philip Morris, of corris!

On Deck

Tuesday:

Frosh Basketball at Harvard 4:30

Frosh Squash at Harvard 4:00

Tomorrow

Varsity Basketball vs. Bates

HERE 8:15

JV Basketball vs. Wentworth

HERE 6:15

Frosh Hockey vs. Boston English

6:30

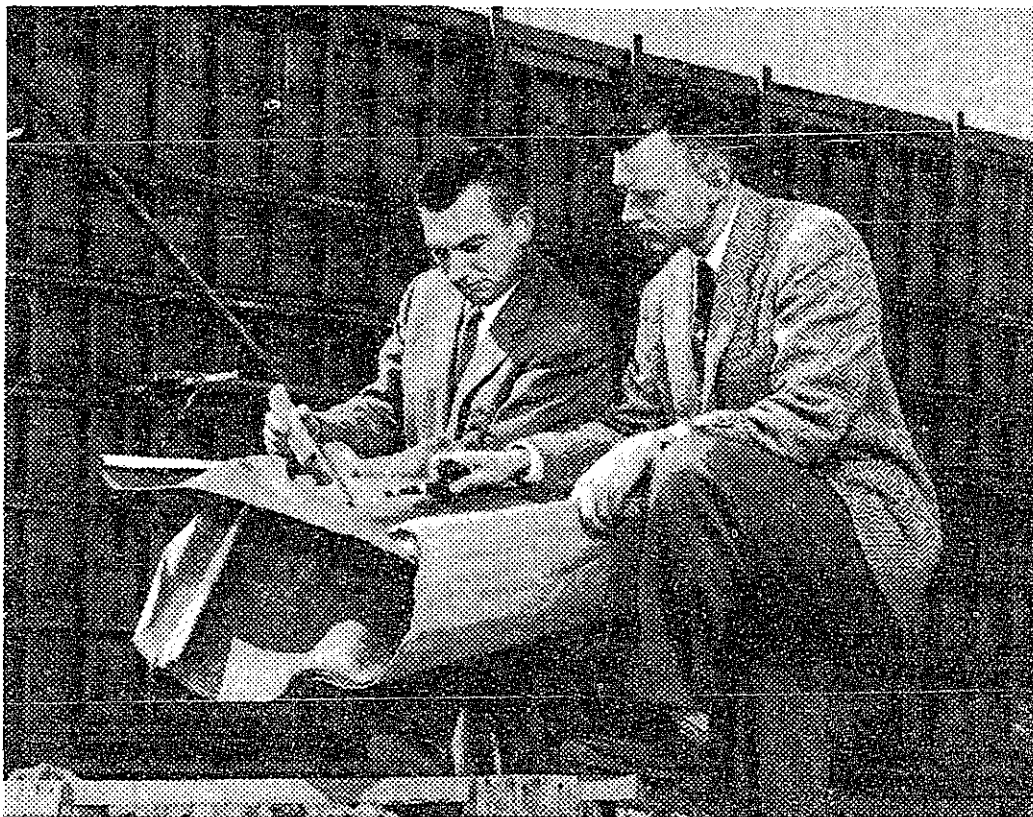
Varsity Hockey at Amherst 7:00

Saturday:

Track—K of C Games—

Boston Garden

A Campus-to-Career Case History



Claire Hruska (left) discusses progress of a new telephone building with the contractor.

What's a civil engineer's job in the telephone company?

Claire Hruska graduated in 1953 from the University of Washington with a B.S. in Civil Engineering. Today he's with The Pacific Telephone and Telegraph Company.

"I supervise construction at every stage," Claire says. "Every telephone building is designed around the equipment that will be in it. When a building is needed, I work closely with the architect to make sure his plans fit the needs. Then I check the contractors' bids. When the contract is let, it's my responsibility

to see that the builder sticks to the plans in detail.

"Right now I'm handling the construction of several telephone exchanges, a large office building in downtown Seattle, and additions to other buildings. It's satisfying work, because I'm on my own a lot, and getting the jobs done is up to me.

"I've got a career that offers big assignments and responsibilities, and real opportunities to get ahead in a business that's growing rapidly. That's what I was looking for."

Claire Hruska is typical of the many young men who are finding rewarding careers in the Bell Telephone System. For more information on career opportunities in the Bell Telephone Companies, Bell Telephone Laboratories, Western Electric and Sandia Corporation, see your placement officer.



Bell Telephone System

BUSH LEAGUER

(Continued from page 5)

30 to join Sigma Phi Epsilon who have taken the title. In League II the powerful Grad House team polished off SAE 60-41 in preparation for defense of its championship. Troutman with 20 and Haskell with 14 led the Grads to the win which means that Baker House will be League II's runner up. Theta Chi A whipped Westgate 56-40 in a playoff for the League III title with Al Richman hitting for 12. In League VII, Hank Hobbs '58 threw in two free throws with 9 seconds to go to give Lambda Chi Alpha a 43-41 win over the Delts and a league championship. The Delts must now play Student House to decide the second representative from the league as Student House topped Theta Delta Chi 63-40 with Yearsley throwing in 20 for the winners. Phi Gam coasted to a 47-34 win in League V play over Aero Dept. to send the Fijis into the playoffs with DU. East Campus rolled to another win in League VI play as Courtney threw in 24 in a 59-45 win over Sigma Nu. In other games, Phi Kappa Sigma, led by Welch's 18 points, trounced Burton House 58-31. The final action of the week saw Walker Student Staff topple Theta Chi B by a 78-32 margin. The playoffs will begin right after the mid term vacation with 14 teams competing for the title.

INSTRUMENTATION LAB

(Continued from page 6)

of study offered by the Institute. The work is first correlated with the studies in the security classified weapons systems courses of the graduate school of the Department of Aeronautical Engineering. From here it filters its way into many of the undergraduate fourth year courses as it is declassified.

With the continuing development of the military forces and the unending expansion of private industry, the MIT Instrumentation Laboratory fulfills a vital need for original research and development. It also fulfills a vital need of the Institute in providing for the integration of current information into the various courses of study as well as providing the opportunity for students to learn to cope with the difficult but realistic problems of an engineer.

BROOKHAVEN

(Continued from page 3)

memory of 12,000 "words". As in other computers, a "word" is a number used in a calculation. The Brookhaven computer can perform 100,000 additions or 5,000 multiplications per second. The machine itself is being built in the form of a U, about 15 feet long by 8 feet wide; it will be located in a room about 40 feet square, with power supplies and cooling equipment installed in adjacent rooms.

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