

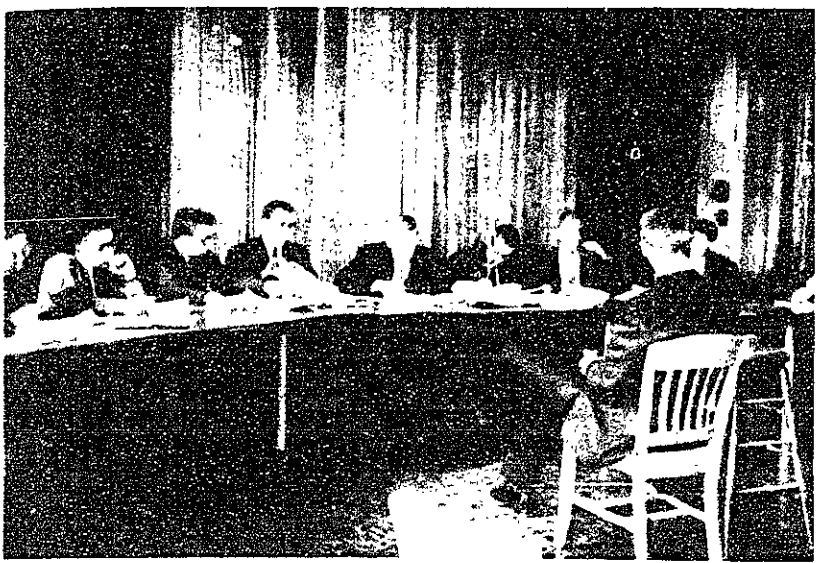
The Tech

OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXVII NO. 9

CAMBRIDGE, MASSACHUSETTS, TUESDAY, MARCH 12, 1957

5 CENTS



JUDICIAL COMMITTEE HEARINGS:

The nine-member combined Institute Committee-Dormitory Council Judcomm spent most of the week-end hearing testimony about the March 2-3 riot from scores of witnesses. Chairman William Salmon '57 wields the gavel.

Await Verdict In Riot Cases After Week-End Hearings

Last Saturday and Sunday, the thirty MIT students who were arrested at the fateful Baker riots were among those summoned to appear for open hearings before a combined Institute Judicial Committee.

The committee stressed the fact that the hearings did not constitute a court of law, and, therefore that the ordinary rules of evidence would not necessarily apply; instead, the purpose was only to better acquaint Judcomm with the facts, so that they could render just decisions in the disposition of the cases. Each student was given a chance to present his story, which, if there was no reason to question it, was accepted by the committee. The group previously had investigated each story, and most questions pertained to discrepancies in the testimony. The defendants were invited to bring in as many witnesses as they wished. The students were required to answer all questions presented by the committee, unless special permission was given by the chairman not to answer the questions.

In an official statement William Salmon '57, Judcomm chairman, said that no defendant would be asked to testify against another; however, several students who were subpoenaed after the investigations had begun, admitted that their names had been mentioned during the course of the hearings. Salmon denied this. They were called, he said, as a result of other Judcomm investigations.

All in all, forty students appeared before the committee as defendants. All of those who were arrested, including the four who had been cleared by the Dean's office, were called because their arrest implied participation of some kind in the riot; this was not used as proof of guilt, however, said Salmon. The open sessions included all of the facts which were being used as evidence in the cases; additional information was added during the closed sessions where the final decisions were reached.

The findings will be forwarded to the Faculty Committee on Student Discipline for action. The announcement of the final disposition of the cases may be deferred until the policy of the counsel for the students now in civil jeopardy has been determined. At the lawyer's request, no testimony was presented at the first hearing last week, but was postponed until today for regular court action. The quick action of Judicial Committee was for the purpose of possibly presenting some evidence at the trial.

Those serving on Judcomm are: Salmon, chairman; Donald Rolke '57, Fraternity Judcomm chairman; Richard Baird '57, Fraternity Judcomm secretary; Donald Smith '57, Dorm Judcomm chairman; David Larsen '57, Dorm Judcomm secretary; Edward Friedman '57, Dormcom president; Howard Rosnikoff, Baker judicial chairman; Donald Weller '57, Fraternity judicial chairman; and Eugene Zoba '59, East Campus judicial chairman.

Living Expense Aid Offered Hungarians By Four Fraternities

Broadening the international scope of the MIT community, the Institute has offered to give Hungarian refugee students up to ten terms of tuition-free schooling. John Holmfeld '57, chairman of the MIT Committee for Refugee Hungarian Students which has charge of this grant, said that the funds would be split among five students for two terms each.

This tuition was given with the stipulation that MIT living groups would provide free room and board for these students. After an appeal made by Holmfeld at a December IFC meeting, four fraternities have agreed to help. Alpha Tau Omega, Lambda Chi Alpha, and Phi Gamma Delta have unofficially told Holmfeld that they are interested in having a Hungarian refugee in their house. Phi Kappa Sigma is making a donation of \$100. Although the Director of Student Aid has turned down the idea of appropriating scholarship money for the room and board of these students, the dormitories are still undecided about putting up the \$800 needed.

Most of the refugee students from Hungary are presently studying English at Bard College in New York. Those who are interested in science and engineering have been invited to apply to MIT for admission. From those that apply the admissions office will select five by the same standards that are now employed for the selection of any student. The only restriction is that the Hungarian refugee must be able to get a degree after only two years of study. That means that the student must have already had two years of schooling in Hungary.

The MIT Committee for Hungarian Refugee Students, which is composed of ten students, arose from student interest in the Hungarian revolution. It has been meeting once a week and discussing the problems concerned with raising the money for the room and board of these students.

Bring Stouffer's To Baker In April; House Chairman Sees Boycott End

Baker House diners will gain the reform for which they twice boycotted, when Stouffer's extends its campus food-management operation to the Baker House dining room immediately after the spring vacation (March 24-31).

Mr. R. Colin MacLaurin, Director of General Services, disclosed the change-over plans to *The Tech* early Sunday.

Baker House Chairman, H. Paul Zeiger '58, informed of the disclosure, called it "a great thing." He said, "I doubt very much whether there will be any more boycotts now. We plan to give Stouffer's the utmost co-operation."

Included in the change-over will be the installation of a Stouffer dietitian and the assumption of control of food purchases by the firm. Mr. Robert Wheeler, presently the top-ranking Stouffer representative in Morss Hall, will also direct the Baker House dining operation.

Acquisition of the dietitian was the chief factor which delayed Stouffer's entry into Baker House, according to Mr. MacLaurin. At the beginning of this term, it was felt that a qualified dietitian could not be found before the end of the term. But the Stouffer representatives whom he consulted after the second boycott told Mr. MacLaurin that a dietitian will be available in two weeks. This date coincides with the beginning of the vacation. When the students resume classes, said Mr. MacLaurin, Stouffer's will already be there.

Mr. MacLaurin stated that he hopes there will be no more boycotts. Referring to the limited Morss Hall facilities, he said, "We can't feed them (the Baker diners) on this basis."

One Baker House resident, who had been active in organizing the first boycott, related the boycott to the change-over disclosure in this way: "The purpose of the boycott was to obtain better food. We ate Stouffer's food in Morss Hall and enjoyed it. This announcement is just the thing we boycotted for."

"We Can't Feed Them"

Mr. MacLaurin did not consider the boycotts a factor in producing the change-over speed-up. "It's what we were going to do anyway," he said.

Boycotts Reserved For Protest

Baker House residents agreed that there is now no cause for further boycotts. However, many cited the saving of the food, which would have been served on the day of the first boycott, for use five days later (the announced cause of the second boycott) as an example of the kind of thing which might cause protest action.

NEIWA Awards Matman Hyman "Best Wrestler"

The New England Intercollegiate Wrestling Association conducted its 11th annual tournament at Williamstown, Mass. between ten colleges—Amherst, Boston University, Coast Guard Academy, Dartmouth, MIT, Springfield, Tufts, U. of Massachusetts, Wesleyan, and Williams. Awards were given to the leading-school, winner in each weight class, and a special award for the "outstanding wrestler." The special award was given to Harris Hyman who is a Senior at Tech. The cup is awarded after a vote by the coaches of the various schools on the basis of performance during the season in intercollegiate matches and at the NEIWA finals.

Springfield College took the tournament for the seventh consecutive year. Springfield, which is a college for physical education, romped way ahead of the rest in the two-day bouts. Although the Springfield coach remarked that due to the fact that all his boys go out for so many sports such as football, track, tennis, etc., it is hard to get them in shape, it appeared that nothing could be further from the truth. Williams College took second; MIT took fifth.

Points for the team were gained as Harris Hyman took first place in the 147-lb. class and Tony Vertin took fourth in the 177-lb. class.

Outstanding wrestlers on the freshman team were Joe Patalive 147-lb. taking second and Steve Gill 130-lb. taking fourth in their respective weight classes.

George Myerson, the wrestling coach, when asked the cause of Hyman's success, replied, "He never could have done it without the strap." Others speculated, support from the team was responsible.

Administration Heads Call Inscom To Closed Sabbath Day Session

"Most Institute financial plans are made on a long range basis," stated President James R. Killian at a special closed Institute Committee meeting. The early Sunday morning meeting was called by top administration members in order that they might clarify their procedures for the student body through Inscomm.

Present at the meeting, besides President Killian, were: Julius A. Stratton, Chancellor; Joseph J. Snyder, Treasurer; Phillip A. Stoddard, Assistant Treasurer; Malcolm G. Kispert, Assistant Chancellor; John T. Rule, Dean of Students; and Frederick G. Fassett, Dean of Residence.

The administration first explained the Corporation setup, pointing out that budget policy is initially made by Executive Committee of the Corporation. Going through budget facts and figures they make frequent use of charts and graphs to clarify their explanations.

Since the announced dorm rent raise, many false figures concerning financing are believed to have been circulated one of which is the fact that the school has enough unrestricted (interest free) money to put more into the dormitory system. It was explained that the Institute has only \$700,000 of such money; and in the

realm of Institute financing this was described as "Not that much."

The guests also made it clear that no campus employment scholarships would be cut next year; and also pointed out that scholarship money has risen considerably in recent years. In 1957, over \$630,000 worth of scholarships were given, as compared with \$55,742 given ten years ago.

The discussion then shifted to the place of student government with relation to the administration. During this time, Dean Rule, referring to the current riot investigations, stated, "I have reiterated to the Judcomm that, as has always been the case, their decision would be their own. I have no idea what they are going to recommend. In the history of Judcomm, I have been told that only once in the last ten years has the Faculty Committee on Discipline changed a Judcomm decision."

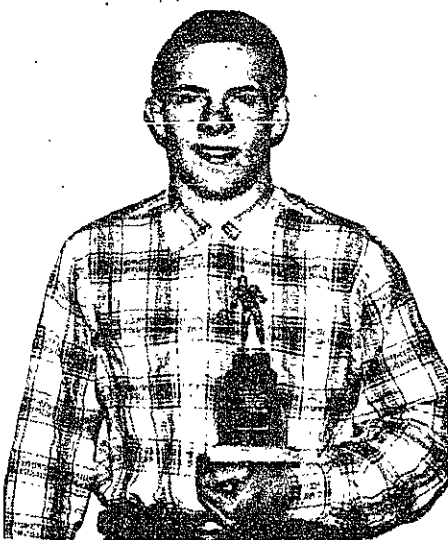
TEN, The Tech To Figure In Office Move To Gain More Space

Sweeping changes will soon be made in the student activity office allotments in Walker Memorial. Chairman of the Secretariat's Facilities Committee, Patrick J. McGovern '59, announced that *TEN* has been permitted to move into the present offices of the Rocket Research Society and the Public Relations Committee on the third floor of Walker.

The Rocket Research Society will occupy the Foreign Student Summer Project room in the basement of Walker in expectation of receiving space in Building 20 upon the completion of the new Compton Lab some time this Spring. The Public Relations Committee will put its files in Litchfield Lounge and receive desk space there. During the inactivity of the FSSP they will store their files in the old *The Tech* darkroom.

Meanwhile the vacated offices of *TEN* will be claimed by *The Tech*, who will use the space for a new darkroom and a separate business office. These additions are in line with *The Tech's* attempts to establish a daily publication for the MIT community. A committee composed of the former managing board of the paper and members of the faculty is studying the problems involved in this transition.

The availability of limited space in Building 20 for student activity use will offer some relief from the present tight situation in the appointment of student activity rooms in Walker Memorial. However, plans for a new Student Union are being enthusiastically discussed among the members of student government and some action is expected soon. The need for an activities building of this type is severely felt.



Harris Hyman displays trophy awarded annually by the New England Intercollegiate Wrestling Association to the best wrestler of the New England's contest. This year's New England's were held at Williams College where the award was given.

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Letters

To the Editorial Chairman, *The Tech*

At a meeting of the Porters last Friday, the Housing Manager, Mr. Henry K. Dow, made this statement. "You should be grateful that you are working for MIT. We could give you six months notice and let you go." Mr. Dow's statement was in my mind a scurrilous attempt to belittle the status of the porters, some of whom have been with the Institute over thirty years. These remarks seem to be tainted with some discriminatory overtones.

The only group who seem to be bearing the brunt of the new rules going into effect concerning the cleaning of rooms is the porters. Mr. Dow is adding insult to injury by suggesting that we as a group are not only superfluous but also ungrateful to question his pronouncements. Is Mr. Dow speaking for the MIT corporation, or am I correct in assuming that Mr. Dow is speaking only for himself? A statement from the corporation on this question would do much to alleviate the uncertainty and the resentment that Mr. Dow's remarks have caused.

Joe Greene
Sixth floor porter
Baker House

Editor's comment—It is evident that the Institute's announcements are not only affecting the students, but the porters as well. Also, it is equally evident that the manner in which the announcements are made lack a certain amount of clarification and tact. It is hoped that Mr. Greene's questions will not go unanswered.

reviews

Saidenberg Chamber Players

On Sunday, March 10, at 3 in the afternoon the MIT Humanities Series presented the Saidenberg Chamber Players in a program including the works of Cesar Franck, W. A. Mozart, and Johannes Brahms.

An extremely well balanced group the Saidenberg Players performed a quintet with piano, a quartet with oboe and a quintet with clarinet with the greatest of ease. Ordinarily your reviewer does not particularly like chamber music but this was one of those wonderful exceptions. Everything that could be brought through interpretation was there—softness yet delicate, bold yet not overbearing.

From time to time this reviewer has commented on the acoustical properties of Kresge Auditorium for various musical events, and it is fitting that we should not overlook chamber music in this respect. As has been mentioned before Kresge is excellent for the symphony, the piano, and the voice. This is true because there is practically no reverberation in the building and the sound carries to a wall and is killed. An effect such as this best shows off these various things. On the other hand organ music is best played in a structure where there is a considerable amount of reverberation and the sound remaining after the release of a thrilling chord will roll around the building several times blending everything with everything before it dies away to nothing. This Kresge will not and cannot do. With respect to Chamber music we again find that a lack of reverberation is pleasing for the enjoyment of this medium of music and, moreover, the stage of Kresge jutting way out into the audience enhances this for Chamber groups who should play where the audience can be more intimate.

The concert was well received by a very enthusiastic audience and this reviewer wishes to remind you that the fifth and last concert sponsored by the MIT Humanities Series will be on April 5th with Ernst Levy in a piano recital.

—Allen C. Langford '57

calendar of events

WEDNESDAY, MARCH 13

Operations Research. Seminar: "Competitive Bidding Strategies." Mr. Lawrence Friedman, of the Operations Research Group, Case Institute of Technology.

ROOM 2-333, 3:00 p.m.
Electrical Engineering Department. Colloquium: "Microwave Backward-Wave Oscillators." Mr. George Mourier, Microwave Research Laboratory, Brooklyn Polytechnic Institute. Refreshments will be served in Room 10-280 at 4:30 p.m.

ROOM 10-250, 3:30 p.m.
Civil and Sanitary Engineering Department. Hydro-mechanics Seminar: "Ocean Wave Measurements: Techniques and Applications." Harlow G. Farmer, Research Associate, Woods Hole Oceanographic Institution, Woods Hole, Mass.

ROOM 48-208, 4:00 p.m.
Naval Architectural Society. Meeting. Film on the Bermuda race, by Walter C. Wood, MIT Sailing Master. Refreshments will be served.

ROOM 5-311, 5:00 p.m.
Technology Catholic Club. Lecture by Most Rev. John Wright, Bishop of Worcester.

HAYDEN LIBRARY LOUNGE, 5:00 p.m.

THURSDAY, MARCH 14

Nuclear Engineering. Seminar: "Multiple Scattering Theory of the Penetration of Neutrons and Gamma Rays through Reactor Shields"—Part II. Roy A. Axford (G). FACULTY CLUB PENTHOUSE, 1 p.m.
Physics Department. Colloquium: "Elastic Scattering of Photons and the Giant Resonance Region." Dr. Everett Fuller, of the National Bureau of Standards.

ROOM 6-120, 4:00 p.m.
Mathematics Department. Harvard-MIT Joint Mathematics Colloquium: "Parabolic and Hyperbolic Partial Differential Equations." Professor Felix Browder, of Yale University. Tea will be served in Room 2-290 at 4:00 p.m.

ROOM 2-390, 4:30 p.m.
Biology Department—Biochemistry Division. Harvard-MIT Biochemistry Colloquium: "Biosynthesis of Diaminopimelic Acid." Dr. Charles C. Gilvarg, Department of Biochemistry, New York University. Tea will be served in Room 16-711 at 4:30 p.m.

ROOM 16-310, 5:00 p.m.
MIT Hillel Society. Lecture: "Culture and Peace in the Middle East." Dr. Raphael Patai, author and anthropologist.

HAYDEN LIBRARY LOUNGE, 7:30 p.m.

FRIDAY, MARCH 15

Mechanical Engineering Department. Seminar: "New Methods of Calculating Stress Concentrations." Prof. Dr. -Ing. H. Neuber, Technische Hochschule, Munich, Germany. Coffee will be served in Room 3-174 from 3:00-3:30 p.m.

ROOM 3-270, 3:30 p.m.
Humanities Department. Chamber concert: Ernst Levy's Symphony No. 12 for chamber orchestra and voices, and Hugo Kauder's Chamber Music for voices and string quartet. Performers: Polyna Zagaretou, soprano; Margaret Danford, alto; Richard Gilley, tenor; and members of the Boston Symphony Orchestra. Conductor: Ernst Levy. Tickets at \$1.50 (unreserved) are available in Room 14-N236. Make checks payable to MIT.

KRESGE AUDITORIUM, 8:30 p.m.
MIT Dramashop. An evening of one-act plays: "The Barracks Affair," by Irven H. Rinard (G); and "In Due Time," by Joseph S. Rosenshein, '57. Critique and coffee hour follow. Admission free.

LITTLE THEATRE, KRESGE AUDITORIUM, 8:30 p.m.
Scabbard and Blade. MIT Military Ball. Open to all. Tickets: \$4.00. GRAND BALLROOM, HOTEL BRADFORD, 9:00 p.m.

SATURDAY, MARCH 16

Graduate Language Examinations. German: ROOM 3-440, 10:00 a.m.-12:00 noon
French and Russian: ROOM 1-245, 2:00-4:00 p.m.
Indoor Track Teams. Interclass meet.

ROCKWELL CAGE, 1:30 p.m.
Lecture Series Committee. Film (in CinemaScope and Technicolor): "The Man Who Never Was," starring Clifton Webb and Gloria Grahame. Admission: 30 cents.

KRESGE AUDITORIUM, 5:30, 7:30 and 9:45 p.m.
Informal Dance Committee. Dance. Admission: \$1.00 per couple.

MORSS HALL, WALKER MEMORIAL, 8 p.m.

SUNDAY, MARCH 17

MIT Hillel Society. Oranim Group: Israeli Arts program of folk-song, dramatics, and dance. Everyone invited.

LITTLE THEATRE, KRESGE AUDITORIUM, 8:00 p.m.

MONDAY, MARCH 18

Civil and Sanitary Engineering Department. Seminar: "Reduction of Grease Losses in Gelatin Manufacturing Wastes." G. N. McDermott (G); "Corrosion Inhibition by Hexametaphosphates," R. E. Argueta (G).

ROOM 1-146, 11:00 a.m.
Meteorology Department. Geology and Geophysics Department. Earth Science Colloquium: "Some Comments on Scale and Representativeness in Meteorology." Dr. Carl Ludvig Godske, Geofysisk Institutt, University of Bergen, Norway.

ROOM 4-231, 4:00 p.m.
Mathematics Society. Talk: "The Origins of Calculus." Professor Dirk J. Struik, Mathematics Department.

ROOM 4-370, 5:00 p.m.

CALENDAR OF EVENTS

Material for the two-week Calendar of March 20 through April 3 is due in the office of the editor, Miss Dorothy Knox, Room 3-339, not later than noon on Thursday, March 14.

ELECTRICAL ENGINEERS MECHANICAL ENGINEERS PHYSICISTS

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It's a scientific fact that girls reach emotional maturity earlier than boys. For this reason freshman girls decline to make romantic alliances with freshman boys.

Thus, the freshman boys are left dateless, and many's the night the entire freshman dorm sobs itself to sleep. An equally damp situation exists among upper-class girls. With upperclassmen being snapped up by freshman girls, the poor upper-class girls are reduced to dreary, manless evenings of Scrabble and home permanents.

There is a solution for this morbid situation — a very simple solution. Why don't the two great have-not groups find solace with one another?

True, there is something of an age differential, but that need not matter. Take the case of Albert Payson Sigafos and Eustacia Vye.

Albert Payson, a freshman in sand and gravel at Vanderbilt University, was walking across campus one day, weeping softly in his loneliness. Blinded by tears, he stumbled upon the supine form of Eustacia Vye, a senior in wicker and raffia, who was collapsed in a wretched heap on the turf.



"Why don't you watch where you're going, you squirt?" said Eustacia peevishly.

"I'm sorry, lady," said Albert Payson and started to move on. But suddenly he stopped, struck by an inspiration. "Lady," he said, "you're miserable because you can't get a date. So am I. So why don't we date each other?"

"Surely you jest!" cried Eustacia, looking with scorn upon his youthful head and body.

"Oh, I know I'm younger than you are," said Albert Payson, "but that doesn't mean we can't find many splendid things to do together."

"Like what?" asked Eustacia.

"Well," said Albert Payson, "we could get a third and play some one-o-cat."

"Bah!" said Eustacia, grinding her teeth.

"All right then," said Albert Payson, "we could go down to the pond and skip some stones and maybe catch a few frogs."

"Ugh!" said Eustacia, shuddering her entire length.

"How about some run-sheep-run?" he suggested.

"You are callow, green, and immature," said Eustacia, "and I will thank you to absent yourself at once!"

Sighing, Albert Payson lit a cigarette and started away.

"Stay!" cried Eustacia.

"Was that," she asked, "a Philip Morris you just lit?"

"What else?" said Albert Payson.

"Then you are not immature!" she cried, clasping him to her clavicle. "For to smoke Philip Morris is the very essence of wisdom, incontrovertible proof that you know rich, natural pleasure from pale, poor substitutes! Albert Payson, I am yours!"

And today they are married and run one of the biggest wicker and raffia establishments in Blue Earth, Minnesota.

©Max Shulman, 1957

Freshman, sophomore, junior, senior — rich man, poor man, beggar man, thief—you'll enjoy natural Philip Morris, long size and regular, made by the sponsors of this column.

notices

SENIOR WEEK

Senior Week tickets are on sale this week. The unofficial theme of this year's senior week which lasts from May 31 to June 4 is: More Booze Than Ever Before. Five events are to be included in the \$19 ticket: 1. Stag Banquet, 2. Boston Pops concert, 3. Moonlight Cruise, 4. Formal Dance, and 5. Mystery night. To find out what is behind the Green Door every senior is urged to buy a ticket this week.

SOPHOMORES!

All sophs interested in Junior Prom should attend meetings held in each dorm so that they might express their ideas. Information concerning the time and place will be found on dorm bulletin boards.

WTBS SMOKER

The WTBS smoker will be held on Sunday, March 17, at 2 p.m. in the station's studios, basement of Ware dormitory, across the street from the East Campus tennis courts. New staff members are needed in several departments, covering a wide range of interests.

Authorities Offer Two-Step Escape From Draft: Graduate School And Critical Job

by Robert Soli

In order to clear up questions in the minds of students about how the draft will affect their lives, this article is presented as a partial answer.

For those in their undergraduate years there are two types of student deferment: Class I-D for those who wish to sign a Draft Deferment Agreement with one of the R.O.T.C. units here at the Institute, and the Class 2-S deferment which determined by the score on the Selective Service College Qualification Test or by the student's grades.

Students who wish to obtain a Class 2-S deferment must take one of the College Qualification Tests and receive a score of 70 or higher or be at a certain level scholastically as a full-time student.

For persons taking the College Qualification Tests, it is important that each knows his own test score, which may be obtained by asking the local board personally.

While a test score of 70 or higher

may be the criteria by which a student is deferred, a second-year student may pass the test or have been in the upper-half of his class during the preceding academic year; a third-year student may pass the test or have been in the upper two-thirds of his class during the preceding academic year; and a fourth or fifth-year student may pass the test or have been in the upper three-fourths of his class during the preceding academic year.

Those who plan to attend graduate school will be eligible for two years' deferment for a Master's degree and for three additional years for the Ph.D. degree if a test score of 80 or over has been earned or if the student is in the upper one-quarter of his class as a Senior only.

The student considering MIT Graduate School will be sent a questionnaire and instructions for filling out Selective Service Form 109. However, if he plans to go elsewhere to Graduate School, there may not be a Selective Service Office to turn to

for help. In this case, those concerned should go to Mrs. Lutz's office, Room 14-S136, early in the spring and fill out a set of Forms 109; then it will be necessary to ask the graduate school to file a Form 109 with the applicant's Draft Board prior to the expiration date of his present deferment. He must also request his own deferment, emphasizing his test score or high grades, or both.

After graduation, the student may apply for six months active duty with the help of his employer if he has a degree in a critical course and has taken a critical job.

Critical courses—

Chemistry*; Engineering (all branches); Geology and Geophysics; Mathematics*; Microbiology and Bacteriology; Physics*; Teaching, college and vocational in critical occupations only, and high school in mathematics and physical and biological sciences only.

*Those courses marked with an asterisk are limited to those having graduate degrees or equivalent experience, education and training (generally considered not less than one year beyond bachelor degree level.)

Critical Activities as of January 6, 1956:

Production, maintenance, and repair of military aircraft and component parts; engineering and design of ships and boats and their component for military purposes; production and maintenance of weapons (including nuclear weapons and guided missiles) and component parts; production of electronic and communication equipment for military use.

Production of materials specifically used in propellants for launched or guided missiles, aircraft, armament rockets, and similar weapons, as well as the processing of the materials into propellants, exclusive of conventional fuels; production of high temperature resins and other chemicals used specifically in the production of launched or guided missiles, aircraft, armament rockets, and similar weapons; operation of water and sewerage systems; college, vocational school and high school instruction in mathematics and physical and biological sciences; basic and applied research, exploration and development projects, including process development, of direct concern to the national health, safety, or interest.

(Continued on page 4)

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ON CAMPUS

INTERVIEWS

March 14, 15

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Mathematicians

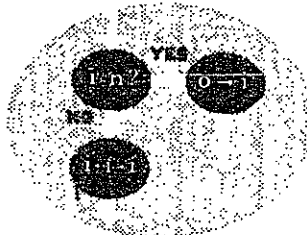
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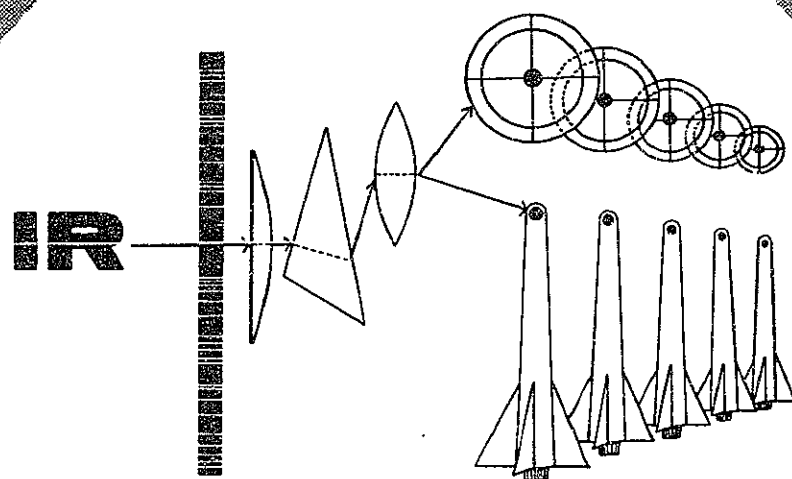
candidates for Bachelor's and Advanced Degrees in mathematics, physics, or engineering to discuss with members of our Technical Staff opportunities in programming the UNIVAC Scientific Model 1103-A and other large scale computers. Additional opportunities in Numerical Analysis, Mathematical Analysis, and Theoretical Physics. (Other technical fields of interest to R-W are listed in another advertisement in this paper.)



Interviews to be held **Thursday, March 14 and
Friday, March 15, 1957** may be arranged
through the Student Placement Center.

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DRAFT

(Continued on page 3)

If the company employing an MIT graduate is willing, it may apply for his deferment in Class 2-A and appeal any I-A classification. If he does apply for the six-month program, he may wait until he has received an Induction Notice before doing so. His Board will take into consideration the Score on the SS College Qualification Test and may request a Form 109 giving his place in class as a Senior, or they may require a complete transcript of his grades. The case then goes to the Scientific Advisory Committee attached to the State Headquarters for Selective Service in the state in which he works. Upon completion of six months active duty, scientists and engineers who fulfill their obligation by continuing to be employed on a critical job are placed in Stand-By Reserve instead of Ready Reserve.

For those who are drafted into the Army, there is a scientific and professional personnel program. This program assures the applicant, if he can qualify, an interesting assignment in the Army as a Private.

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grounds.

Those applying for the line officer status must have 20/40 vision, and staff and restricted line officer candidates must have 20/100 vision. All these must be corrected to 20/20. The Line comprises the operational Navy and the vast majority of officers are in the Line category. Staff officers are those professional specialists each within his own corps who supports the fleet activities, e.g., Civil Engineering Corps. The Restricted Line category is limited and normally open to applicants not physically qualified for Line, who have an engineering or scientific background, or other specialized qualifications.

Those interested in this program are advised to make application as early as possible because application in no way means obligation to the Naval Service; the applicant will know earlier how he stands with reference to the Navy and hence will be able to plan with this in mind; and if desired he may request consideration for the earliest OCS class convening after graduation. To obtain information regarding any of the programs, or to initiate an application, write to U. S. Navy Recruiting Station and Office of Naval Officer Procurement, 564 Atlantic Avenue, Boston, Massachusetts.

ALL-TECH SING

The MIT Baton Society is again presenting the annual All-Tech Sing. The 1957 edition will take place in Kresge Auditorium on Saturday, April 6, at 8:15 p.m.

Tickets at 80c apiece will be on sale in the lobby of Building Ten the week before and the week after Spring Vacation. The booth will be open from 11 till 2 each day.

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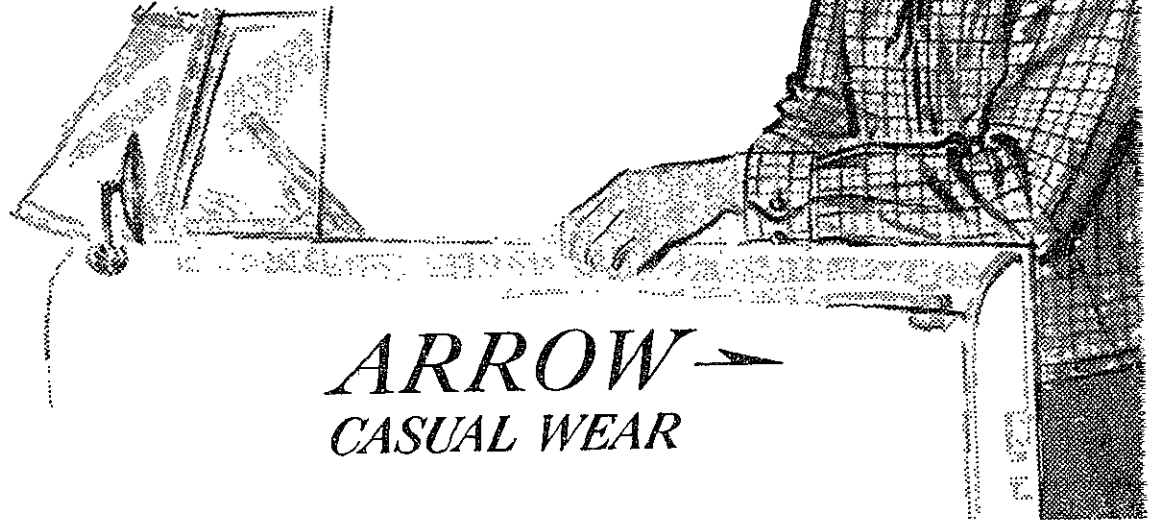
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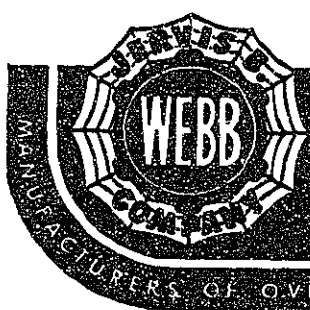
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MIT Mermen Fail At New Englands; Brown Gets First

This week the MIT Swimming Team put forth a stalwart but fruitless effort against an overwhelming lineup of the N.E.I.S.A.'s best swimmers. Tech's mermen walked out of the UConn meet without having scored a point in the 113 school meet.

This poor showing can be partly attributed to the illness of some of the team's most promising members. Dave Bryson '57 was in the infirmary with infectious mononucleosis, while the team's other diver, Dave Cahlander '59 had to keep out of the meet because of a spinal injury.

Bryson in the past had beaten Pete Lawson of Springfield, winner of the event last week-end.

Despite the swimmers' disappointment the UConn event provided much excitement. Bill Yorzyck, the only American Gold Medal Olympic swimmer, gave an exhibition. The 220-yard butterfly man swam his event in 2 min. 5.4 seconds—3 seconds less than the NCAA record set concurrently at Harvard.

The MIT freshmen met with more success than our varsity men. Bob Barrett, Clarence Kemper, Charlie Rook, and John Windle took 6th place in the Freshman 400-yard relay.

Only four of this year's team will graduate in June. Though these men, Harry Duane, Bob Hull, Bob Jantzen, and Les Orloff have made outstanding contributions this year, the team can look ahead to success next season.

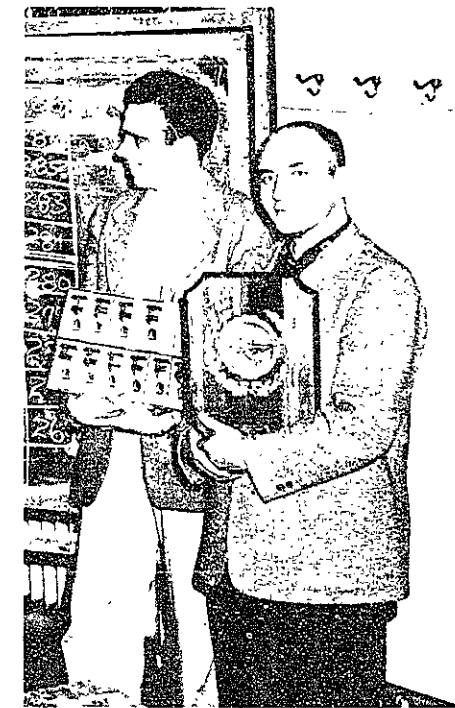
Tech Nimrods Take Title; Team Tops In New England

Last Saturday the MIT Varsity Rifle Team defeated the Coast Guard Academy, Providence College and Norwich U. to capture first place in the New England Collegiate Rifle League. The Tech sharpshooters turned in a 1423, their best score of the year. Norwich followed closely with a 1416. These matches climaxed the annual competition between the 18 teams in the N.E.C.R.I. High scorer

for both MIT and the match was Joe Jennings '58 with a 288. Close behind him were Robert Borgwardt '57 with a 286 and Harry Johnson '57 with a 285. Ron Pellar '59 with a 283 and Dwight Moody '59 with a 281 completed the top five on the team.

In addition to the team plaque, Borgwardt was awarded a medal for the second highest average during the season. Bob averaged 286 to take home the award.

This Saturday Tech competes in the National Rifle Association sectionals at Boston U. The scores of the top teams at this match will be forwarded to N.R.A. headquarters where the national winners will be decided. This is undoubtedly the biggest match of the season and feeling is running high in preparation for it. The nimrods are expected to be "up" for this crucial match. This is the second straight year which Tech has taken the New Englands. The strength and balance of the team are reflected in the fact that several of the men on this year's squad have been named to various "all-star teams". With a strong distribution of talent throughout the lower classes prospects for the next few seasons are equally as bright.



Sgt. Mattson proudly holds the plaque that signifies his rifle team won first place in the New England Collegiate Rifle League, while Capt. Harry Johnson '57 displays the medals that the team acquired in crowning its season with the weekend win.

UConn Surge Nips MIT Trackmen In Final Indoor Meet

Meeting the University of Connecticut Saturday, in its third and final indoor dual track meet, MIT lost a hard fought battle by three points, 58-55.

U. Conn surged to an early lead with an unexpected sweep of the broad jump after Johnny Maier '59 fouled out. Fred Morefield '57 helped Tech back by winning the weight throw and throwing second in the shot-put. With very poor and unorthodox facilities for the pole vault and high jump, Tech was held to a tie for second and a tie for first in the respective events. A sparkling performance by Larry Lassinger '58 added ten points to MIT's score as he won both the low and high 60-yard hurdles. In the 60-yard dash Fred Brownard '59 and Bob Williamson '59 streaked to first and second places. Following behind Connecticut's stellar Lew Steiglitz who ran a fantastic 4:13.5 mile, Glenn Bennett '58 strode to an excellent 4:35 second place. In the mile relay Juniors Dick Murdock, Bill Duffy, Glenn Bennett, and Ed Bell steadily increased their lead with the aid of U. Conn's sloppy passing to win by 40 yards.

The Freshmen bowed to U. Conn's strength and depth 63-41. Outstanding Beaver performer was Bob Murano who again this week easily won the 1000-yard run and the mile. Bob Slusser ran a good 1:18.9 to win the 600 and gave the frosh relay a good lead on the opening leg which they held all the way.

SUMMARY

60-Yard Dash—1. Brownard, MIT; 2. Williamson, MIT; 3. Dickinson, UC. Time 6.5.
100-Yard Dash—1. MIT; 2. UC. Time 3:34.1.
200-Yard Dash—1. Fraizer, UC; 2. Bell, MIT; 3. Keeler, UC. Time 1:16.0.
400-Yard Dash—1. Fraizer, UC; 2. Cohen, UC; 3. Cooper, MIT. Time 2:25.3.
800-Yard Dash—1. Fraizer, UC; 2. Bennett, MIT; 3. Thompson, UC. Time 4:13.5.
1600-Yard Dash—1. Steiglitz, UC; 2. Condon, UC; 3. Carberry, MIT. Time 10:21.9.
3200-Yard Dash—1. Lassinger, MIT; 2. Murray, MIT; 3. Fraizer, UC. Time 8.4.
6400-Yard Dash—1. Lassinger, MIT; 2. Williamson, MIT; 3. Dickinson, UC. Time 7.6.
16-Pound Shot Put—1. McDermott, UC, 42 feet, 4 inches; 2. Morefield, MIT, 41-6 1/2; 3. Ronn, UC, 37-10 1/2.
35-Pound Weight Throw—1. Morefield, MIT, 51 feet, 6 inches; 2. Hoyt, MIT, 51-2 1/4; 3. Rivers, UC, 41-1.
High Jump—1. (Tie) Dickinson, UC, Zuccar, UC, Judy, MIT, 5 feet, 8 inches.
Broad Jump—1. Dickinson, UC, 20 feet, 10 1/2 inches; 2. Renni, UC, 20-1 1/4; 3. McCall, UC, 19-8 1/2.
Pole Vault—1. Graeb, UC, 11 feet; 2. (Tie) Spencer, MIT and Maglione, MIT, 10-0.

HILLEL CONFERENCE

The MIT Hillel Society will present on Thursday, March 14 at 7:30 p.m. in the Hayden Library Lounge, Dr. Raphael Patai, who will speak on "Culture and Peace in the Middle East." Dr. Patai is Professor of Anthropology at Dropsie College and Columbia University and he is a first hand expert on the subject. Everyone is cordially invited.

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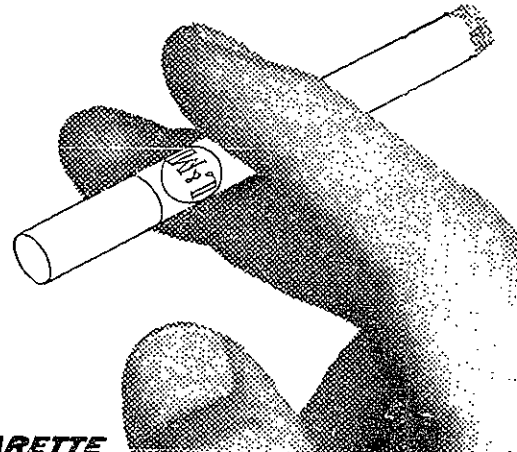


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Baseball Team Makes Ready For Opener; Varsity And Freshmen Have New Coaches

With its first game only four weeks away, the MIT baseball team has been holding practices in the armory. Prospects are good for improving upon last year's 5-10-2 record. On the team are several good players from last year's freshman squad which, led by good hitting and a strong infield, was the first in several years to break into the win column.

These players include first baseman Larry Jones, second sacker Dick Campbell, catcher Warren Goodnow, and pitcher Al Beard. Karl Walterskirchen, a transfer student, is another addition to the team, and should help out at first base.

The squad will be led this year by co-captains Al Richman, shortstop, and Pete Hohorst, outfield, both seniors. Other seniors rounding out their college diamond careers are Bill Fleischer and Chuck Speer. Juniors Walt Ackertlund, Dick Barone, and Dan Read will help out with the hitting and fielding chores.

With three hurlers missing from last year's team, pitching may be the biggest hurdle which Coach Whitelaw will have to overcome. If Marty Bressler '57, Frank Henrick '58, and Ken Auer '58 can take up the slack, a well rounded team should be ready to face Harvard on April 10.

Ten of the eighteen games on the schedule will be away, with only two Saturday games played here on Briggs Field. In addition to Harvard, there are single games with Lowell, Colby, Bowdoin, Trinity, Wesleyan, Coast Guard Academy, and WPI. Double encounters are scheduled with BU, Brandeis, Boston College, Tufts, and Northeastern.

The freshman baseball team has also been working out, and the members of the Class of '60 have looked impressive. They have one of Tech's three new coaches this year in Eddie Krinski, who is a former Harvard shortstop and captain of the baseball team. He is a native New Yorker whose stay in New England has been interrupted only by a hitch in the service. In addition to his coaching duties, he is a student in Harvard Graduate School. Krinski takes over Coach Whitelaw's old spot.

The freshmen play an eleven-game schedule, including games with Harvard, BU, Middlesex, Exeter, Newton Jr. College, Northeastern, Andover, and Tufts. Six of these contests will be played here at MIT. Last year brought the first improvement in freshman baseball in some time, and this improvement should be continued under the tutelage of the new mentor.

All of these games should be interesting contests, and the team hopes that many people will come out to watch and to root for a successful season. More fun than watching is playing and anyone interested should contact Coaches Whitelaw or Krinski.



Diamond hopeful prepares to take a cut at an incoming pitch as baseball team practices for season opener on April 10.



What a MATHEMATICIAN can do at IBM

Mathematics is an ancient but ever-advancing science that contains many forms. It shouldn't surprise you then that it took some time before John Jackson discovered the one brand of mathematics that seemed custom-tailored to his ability and temperament. John is an Applied Science Representative, working out of the IBM office at 122 East 42nd Street, N. Y. C.

First of all, what's it all about? What does a fellow like John Jackson do all day? In his own words, "I keep in touch with the executives of many different companies—advising them on the use of their IBM electronic data processing computers. I personally consult with these customers, and analyze their scientific and technical problems for solution by IBM. Occasionally, I'm asked to write papers, and give talks and demonstrations on electronic computing. All in all, it's pretty fascinating . . . something new pops up every day." In other words, John is a full-fledged computing expert, a consultant . . . and a very important person in this



Calling on a customer

coming age of automation through electronics.

Since the IBM laboratories are always devising easier and faster ways to solve the problems of science, government, and industry, an Applied Science Representative can never say he's learned his job and that's the end of it. At least once every two months, he attends seminars to be updated on the latest developments in engineering and operations research.

Introduces new methods

During the two years that John has spent with IBM in Applied Science, he has guided innumerable IBM customers to new and better ways of doing things electronically. For example: about a year ago, a leading aircraft manufacturer wanted to experiment with a radically different design for a nuclear reactor. Although the basic format had been established, the project still required many months of toil with mathematical equations.

The aircraft people decided that they couldn't afford to wait that long, so they called in IBM. After discussion with top executives, John helped to map out a computer program that saved the organization over 100 days



Mapping out a computer program

of pencil-chewing, nail-biting arithmetic. Later, for this same company, John organized the establishment of computer systems for aircraft performance predictions . . . for data reduction of wind tunnel tests . . . and for wing stress analysis. At the same time, he worked with this company's own employees, training them in the use of IBM equipment. John still drops around to see that everything is running smoothly.

Another service that John performs is the constant reappraisal of each customer's IBM operation. Occasionally, a customer may tie himself in knots over a procedural "stickler." Periodically, in fact, John brings IBM customers together . . . just to talk over what's happening in each other's business—how everybody else handled that old bugaboo in any industry . . . details.

New field for Mathematicians

John is exercising his mathematical know-how in a field that was practically unheard of ten years ago. Even now, this kind of work may be news to you. It was to John Jackson a few years back when he was an undergraduate at the University of Colorado. At that time, he was considering actuarial work or mathematical research. But John liked the excitement and diversification of science and industry and he wanted to use his

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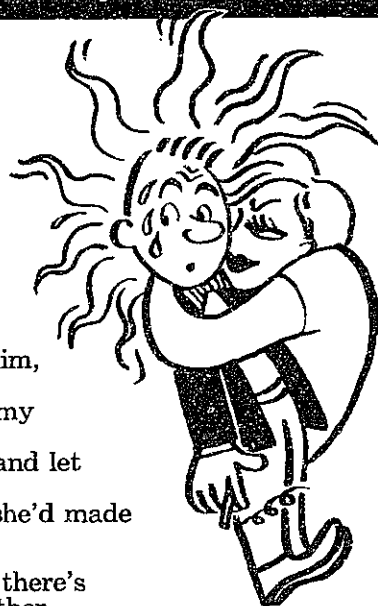
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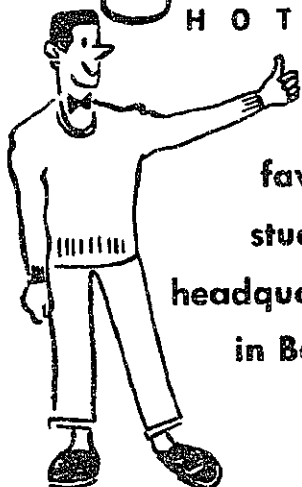
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Jr., 6 weeks, he enjoys his suburban Port Washington home. He's happy and he's satisfied. And then, too, John knows a few vital statistics about IBM . . . such as the fact that the Applied Science Division has quadrupled during the past three years, and that in 1956 alone, over 70 promotions were conferred. If ever a future held promise, here is one.

IBM hopes that this message will help to give you some idea of what a mathematician can do at IBM. There are equal opportunities for E.E.'s, M.E.'s, physicists and Liberal Arts majors in IBM's many divisions—Research, Product Development, Manufacturing Engineering, Sales and Technical Services. Why not drop in and discuss IBM with your Placement Director? He can supply our latest brochure and tell you when IBM will next interview on your campus. Meanwhile, IBM will be happy to answer your questions. Just write to Mr. P. H. Bradley, IBM, Room 9401, 590 Madison Avenue, New York 22, N. Y.



BAA Relay Win Highlights Winter Track Crimson's Heckscher Wins Second National Squash Title At MIT Meet

The indoor track season opened January 19 for MIT as the mile relay team, running against Providence and U. Mass. took second place in the annual K. of C. Games. In the B.A.A. Games the relay team stayed ahead all the way to win over Providence, Bowdoin, WPI, and Boston College. In New York's Millrose Games the relay team was badly outclassed by B.U., Fordham, Columbia, and Brown who all beat Tech by a sizeable margin. Tech's first dual meet was a loss to Northeastern Univer-

sity. Against U.N.H. Tech won by a score of 66-51. Last week's meet with U. Conn wound up the formal indoor season with only the indoor inter-class meet remaining.

From the Sophomore class, sprinters Bob Williamson and Fred Brown added a number of points to Tech's scores. Johnny Maier demonstrated his great potentialities in the broad jump. Juniors Dick Murdock, Bill Duffy, Glenn Bennett, and Ed Bell carried the relay load for MIT as well as showing strongly in the

middle distance events. Larry Lassinger was Tech's best hurdler. Seniors Fred Morefield and Ed Hoyt consistently won points in the weight events. Vito Maglione has performed well in the pole vault in spite of a leg injury. Pete Carberry has almost alone represented MIT's distance running ability.

The team has worked well together during the season in spite of injuries and lack of an indoor track. The morale has been high and a keen competitive spirit has been evident in all the meets. With continuing hard work the team is looking forward to a good spring track season.

CATHOLIC CLUB

The Catholic Club announces the visit of Bishop Wright of Worcester on next Wednesday. His topic of discussion will be "Catholic Intellectualism."

Ben Heckscher, Harvard '58, won the Intercollegiate squash singles championship held at the MIT courts March 8, 9, and 10. In winning the championship for the second straight year, Ben played effortlessly and did not lose so much as one game until the finals. Sunday afternoon Ben met John Griffiths of Navy in the finals. Griffiths surprised the champ in the first game with a very hard serve, the hardest of any player in the tournament. Heckscher then settled down to play fine, steady squash, and his aggressive opponent was no match for him. The scores were 12-15, 15-17, 15-10, and 15-7. Henri Salaun, first ranked amateur squash player in the United States, says that Heckscher is one of the five top amateurs in the country. Harvard also won the team

tournament trophy, which is based on the number of matches won by each school in the tourney. Instrumental in winning this team trophy was Cal Place, Harvard's number two player, but unseeded in the championships.

MIT Captain Tom Thomas '57 had high hopes of advancing far in this tourney on the basis of his improved play in the second half of this season. Unfortunately Tom was upset in the first round by Horan of Dartmouth in five games. The scores were 12-15, 16-15, 15-8, 13-15, and 15-11. Also representing Tech, but eliminated in the first round, were Bill Bateman '57, Henry Lyden '57, and Jesse Wallace '58. The team finished the season with one victory and eight losses for the year.

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Interviews to be held Thursday, March 14 and Friday, March 15, 1957 may be arranged through the Student Placement Center.

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Tech Puckmen Lose To Strong U. Of N.H. Team In Final Game

A 5-2 defeat at the hands of the University of New Hampshire last Thursday marked the close of Tech's 1956-57 hockey season. The game, played on the victors' ice, was the thirteenth straight setback for coach Ben Martin's forces.

During the early stages of the game MIT strove desperately to gain its first victory. For a while it seemed as though this might be possible. After Le Clere drew first blood for UNH, "Bev" Goodison '57 knotted the count at one goal apiece. At 6:55, Le Clere tallied again to give the lead back to the skaters from Durham. One more goal for each side made the score 3-2 in favor of UNH. After this, however, the game was all UNH as they put two more goals through the nets in the last period to wrap up the decision.

Paul Scala '58 and Paul Eckberg '58 combined to register Tech's second score. Dick McCabe '57 and Dick Burgie '58 shared the goaltending chores for the Beavers.

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Dr. Gaudin Outstanding In Work On Uranium Recovery Process

Because of the work of Dr. A. M. Gaudin, Richards Professor of Engineering, uranium can be recovered from ores up to a hundred times leaner than had been thought possible.

Dr. Gaudin recently received the Robert H. Richards award for this work at the annual meeting of the American Institute of Mining, Metallurgical, and Petroleum Engineers in New Orleans.

The work began during World War II when the Manhattan District, which developed the A-bomb, asked Dr. Gaudin to head an MIT team to investigate ways of getting uranium out of low-grade ores by flotation methods. Dr. Gaudin was chosen because he is an authority on flotation methods. However, Dr. Gaudin did not want to restrict himself to a single method, and he received permission to try other methods. The successful process has nothing to do with flotation.

The first step in the process is to leach the uranium in sulphuric acid—dissolve the uranium, leaving the insoluble impurities behind. The problem which faced the group was, how to separate the uranium from the

sulphuric acid. At first the group experimented with cations, but while these extracted the uranium they also extracted other metals like iron and aluminum. Then the Batelle Memorial Institute (Illinois) published a report as a result of research in other aspects of uranium products. They found that uranium could be satisfactorily extracted by anions. Immediately, according to Dr. Gaudin, "we dropped everything on an hour's notice and proceeded to investigate anion resins." This led to success.

The other two major contributions of the group to the uranium extracting industry consist of RIP, or resin in pulp, and SIP, or solvent in pulp. The former is a way of avoiding the expensive need for separating the pregnant uranium liquor from waste solids which follow the leaching operation, and the latter is a similar step-saver in the solvent extraction method which is applied to the processing of some low-grade ores.

New Levy Symphony In Boston Premiere At Kresge, March 15

The Boston premiere of Kaudee's song cycle, "Chamber Music" and Prof. Ernst Levy's "Chamber Symphony" will be held in Kresge Auditorium on Friday, March 15.

Both "Chamber Music", which is based on poems of James Joyce, and the Symphony, were composed in 1951 and first performed in 1952 at Mandel Hall of the University of Chicago. The coming performance is the second anywhere of Prof. Levy's Symphony No. 12.

"Chamber Music" is written for three voices and a string quartet, and the symphony is performed by eleven players, with three voices in the seventh and the last movement.

The two pieces will be performed by members of the Boston Symphony Orchestra, with Polyna Zagaretu, soprano, Margaret Danford, alto, and Richard Gilley, tenor, singing the vocal solos.

Tau Beta Pi Elects New Pledges To Be Initiated In April

Tau Beta Pi, the national honorary fraternity, has elected new pledges. Requirements for admission are that all juniors must be in the upper one-eighth of their class, and seniors in the upper one-fifth of their class. Character and service are also considered.

SENIORS
Alstrom, James W.
Andrews, Phillip T.
Coble, Paul M.
Couper, William
Cramer, Lawrence
Cutler, Henry
Dean, Lee
Fister, Lee H.
Gardner, Richmond
Gladding, Edwin P.
Harding, James H.
Judy, Jack H.
O'Toole, Kevin J.
Peterson, Kenneth W.
Rinde, Jean J.
Sargent, Charles F.
Smart, Robert D.
Sutlin, Lloyd V.
Teague, Lavette C.
Vasquez, Jorge

JUNIORS
Baber, Robert L.
Blum, Asher S.
Brand, Daniel
Changasiri, Sivavong
Delaat, Peter J.
Esquenazi, Edmundo
Fiorelli, Arthur C.
Fraize, Willard E.
Hertel, Robert H.
Johnson, Herbert G.
Jordan, McClaraa
Kalina, Theodore
Kraime, Gilbert L.
Lenn, Peter D.
Levison, William H.
McIntyre, Kenneth L.
McCullough, Richard
Miller, Michael
Moyer, Donald R.
Neustal, Arthur D.
Newton, Roland A.
Ostarmayer, Fred
Papayannis, E. C.
Parente, Robert
Rose, Robert M.
Rosenthal, Richard A.
Sierer, Payson
Smith, Lewis
Stiglitz, Irvin
Talbot, Charles F.
Uchida, Toro
Weinreb, Sander
Yearsley, John R.
Zeiger, Howard P.

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