

British award Piepmeir two year Marshall grant

James Piepmeier '65 is one of 24 US students to earn 1965/67 Marshall Scholarships for two years of study at British universities.

Marshall scholarships were introduced in 1953 by the British government as a practical means of expressing their national appreciation of American aid given to British under the post-war Marshall Aid plan.

Piepmeier will read 'Part II, Physics for the Natural Science Tripos for BA' at Churchill College, Cambridge, in using his grant.

Each Marshall Scholarship is good for two years with a possibility of extension for a third. Unlike Rhodes Scholarships, they are open to either sex and are not confined to Oxford University.

Each grant covers cost of tuition, a book allowance, living expenses and transportation to and from Britain. An extra allowance is given to married students.

This year's Marshall scholars include, in addition to Piepmeier, graduating seniors from Harvard (6), Princeton (3), Columbia, Smith, Dartmouth, Yale, Stan-

ford, Boston College, Williams, Vanderbilt, Cincinnati, St. Joseph's, Occidental, Hendrix, Kansas, Georgia, Colorado, Indiana, and Wisconsin.

Marshall Scholarships are awarded on a regional basis dependent on the applicant's home. Piepmeier, who is from Tennessee, was one of four winners chosen from the Southern US.

ROTC men honored during Military Day

Fifty-seven cadets and midshipmen of the ROTC units received awards and medals for outstanding achievement at the annual Military Day exercises yesterday.

Dr. Julius A. Stratton, President of the Institute, was reviewing official for the ceremonies.

Major award winners included Cadet Captain John R. Murray, Cadet Private John W. Reynolds, and Cadet Private Bruce C. Diefenbach, Department of the Army Superior Cadet Awards; Midshipmen Lieutenant Ernest P. Eich, III, The Naval Institute Award; and Cadet Colonel John D. Edger, Cadet First Lieutenant William F. Klepser, Cadet Staff Sergeant Stanley A. Hendry, and Cadet Airman First Class Alan M. Gilkes, Professor of Air Force Aerospace Studies Awards.

Class of 1969 may have 950

The Class of 1969 stands a good chance of being between 20 and 50 freshmen larger than the admissions office planned, according to Professor Roland B. Greeley, Director of Admissions.

The "yield" of students choosing MIT from the 1526 acceptances sent out this year is about 3 per cent higher than the office's carefully made calculations indicated it would be. Professor Greeley indicated this was particularly surprising since the admissions situation this year seemed almost identical to last year's. Last year the yield was low, and some people from the waiting list were accepted.

None of the 200 names on this year's waiting list will be used.

The Class of 1969 was planned to include 925 students; present estimates indicate a class of 950 unless a high "melt" offsets the high yield. The "melt" is the number of students who indicate they plan to enter, and then alter their decisions.

The main problem posed by a large class is finding adequate dormitory or fraternity housing for the freshmen.

Applications available for government grants

Application forms and information for 1966-67 US government graduate study grants may be obtained from Professor B. Alden Thresher, campus Fulbright Advisor, in Room 1-207.

Candidates who want to apply for a grant must be US citizens and have a bachelor's degree or its equivalent by the starting date of the grant.

The deadline for filing application with Professor Thresher for a Fulbright grant is October 29, 1965.

\$20,000 grant

GE aids graduate work

Four \$5000 grants for graduate research were awarded to MIT by the General Electric Foundation for study in the following fields: Pure Math and Statistics; Metallurgy and Ceramics; Chemical, Mechanical, Nuclear, and General Engineering; Industrial Engineering, and Manufacturing Processes.

Harvard University was also among the 58 institutions to receive Graduate Research and Study Grants under GE's \$540,000 program. It is part of the \$1,450,-

000 Educational Support Budget approved by the General Electric Foundation for 1965.

Joseph M. Bertotti, General Electric Foundation Secretary, in making the announcement said, "The Graduate Grant Program provides financial assistance in those areas of study where the need is greatest. At the same time, it allows the recipients flexibility in the use of the funds so as to best cope with the needs of the individual institution."

Awards Convocation conducted

The annual Awards Convocation of the Massachusetts Institute of Technology was conducted Monday morning, May 10, in The Great Court of the Institute.

William H. Byrn, Jr., President of the MIT Undergraduate Association, presided over the presentation of all awards.

Karl Taylor Compton Awards
Nine MIT Seniors received the Karl Taylor Compton Award "for outstanding contribution in promoting high standards of achievement and good citizenship within the MIT community."

This award, which is the highest award conferred on any student for extracurricular activities, was presented personally by Mrs. Compton. The late Karl Taylor Compton was once the President of MIT.

Each of the nine winners received an inscribed silver tea service, and, in addition, an activity honored with a Compton Prize was awarded \$250.

The winners
The presentation of the nine Compton Awards went to "Michael A. Efron, who has expressed in deeds for others his faith in learning;

Norman S. Kaderlan, a creative innovator in matters of the mind and spirit;

Henry A. Lichstein, a skillful mediator whose leadership has opened many ways for community good;

Steven B. Lipner, a sensitive

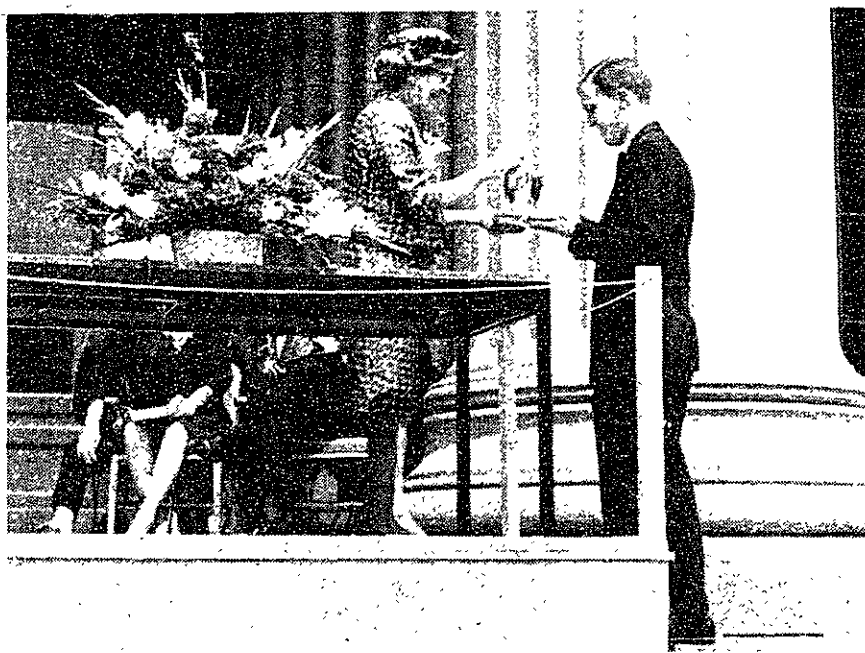


Photo by John Torode
James W. Taylor '65 receives his Compton Award from Mrs. Karl Taylor Compton at annual Awards Convocation held in the Great Court Monday. Nine seniors and the Association of Women Students received Compton awards for 1965.

leader in joint efforts for the betterment of the greater community of which MIT is a part;

Jeffrey A. Meidman, author, director, impresario, whose taste and patience have elevated the dramatic life of the Institute;

Matt L. Mieziva, Jr., farseeing governor, able administrator, primus inter pares;

William G. Roeseler; to others he gave, for others he labored;

James W. Taylor, for sense and sensitivity in statecraft, acumen in finance; and finally,

Richard W. Tsieng, a vigorous center of action in student affairs."

The Association of Women Students also received an award for their participation in the intercollegiate symposium, American Women in Science and Engineering, held at MIT last October.

Townes selected Carnegie trustee

Dr. Charles H. Townes, Provost and professor of physics, has been elected a trustee of the Carnegie Institution of Washington, DC.

Dr. Townes' appointment was announced Monday by Dr. Caryl P. Haskins, President of the Institution. The Carnegie Institution of Washington was endowed by Andrew Carnegie "to stimulate the growth of knowledge through providing facilities for basic research in science."

LES-2 orbits earth

Satellite carried as bonus

By Jeff Reece

Two MIT Lincoln Laboratory experimental satellites were carried as a "bonus" on the fourth test flight of the USAF Titan III-A from Cape Kennedy.

The first to be released, the LES-2 (Lincoln Experimental Satellite) was an extension of the LES-1 sent up last February.

Satellite features

Its principle experiments are identical: 1) an all-solid state X-band communications transponder, 2) an earth sensing and antenna switching system to provide antenna gain from a spinning spacecraft, 3) a magnetic system

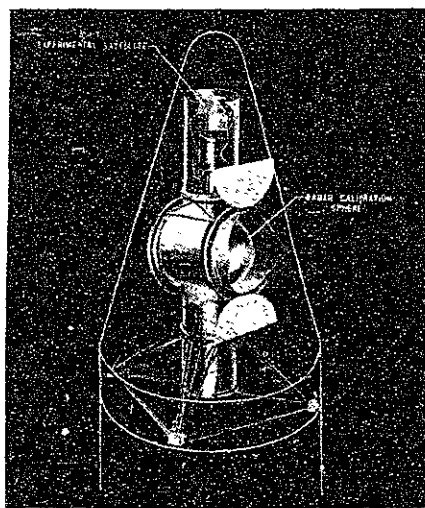
for spin-axis control to aid thermal balance and increase power output. The only difference from the LES-1 is the addition of a simple sun-sensing system to aid in monitoring the satellite spin-rate. The highly elliptical orbit will have an apogee of about 8000 nautical miles and a perigee of about 1500 nautical miles.

'Bonus' satellite

The second "bonus" experimental satellite is a radar calibration, a hollow thin-walled aluminum sphere, 44½ inches in diameter and weighing about 75 pounds. The diameter is such that its projected area is exactly one square meter, the unit of measurement commonly used to express the reflecting strength of radar targets. All present satellites — because of their non-spherical shape — produce echoes that fluctuate in strength (scintillate) over a wide range. The experiment ought to clarify the present uncertainties of the gains of high-power radio and radar systems that limit the usefulness of these systems as measuring devices.

Doppler measurements

The calibration sphere will also be useful in making direct measurements of radio propagation through different weather



Titan payload with LES-2.

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APO operates Book Drive; books will be sent to Asia

Alpha Phi Omega is currently soliciting books for annual Asian Book Drive, and would greatly appreciate your donation of used books. Collection boxes are located in building 10 and in the dorms, where they will be for the remainder of the week.

The Book Drive is operated under the auspices of The Asian Foundation, a non-profit, non-political organization in California. It maintains 18 offices in Asia from Japan through Southeast Asia to Afghanistan. Through these resident representatives, the Foundation makes available private American assistance for a broad range of educational, development, cultural, and civic programs. The Book Drive is one of the forms these programs take.

To date, over four million vol-

umes have been shipped to colleges, universities, libraries, research Institutes, and individual recipients throughout Asia; many more are still needed. If you have any books at all you're not using, including textbooks or even works of any literary value, please let them be put to use by eager and needy students in India, Laos, Philippines, Vietnam, and many other countries.

APO suggests to satisfy the altruistic motivations of your conscience, bring your books to a collection box by the end of the week.

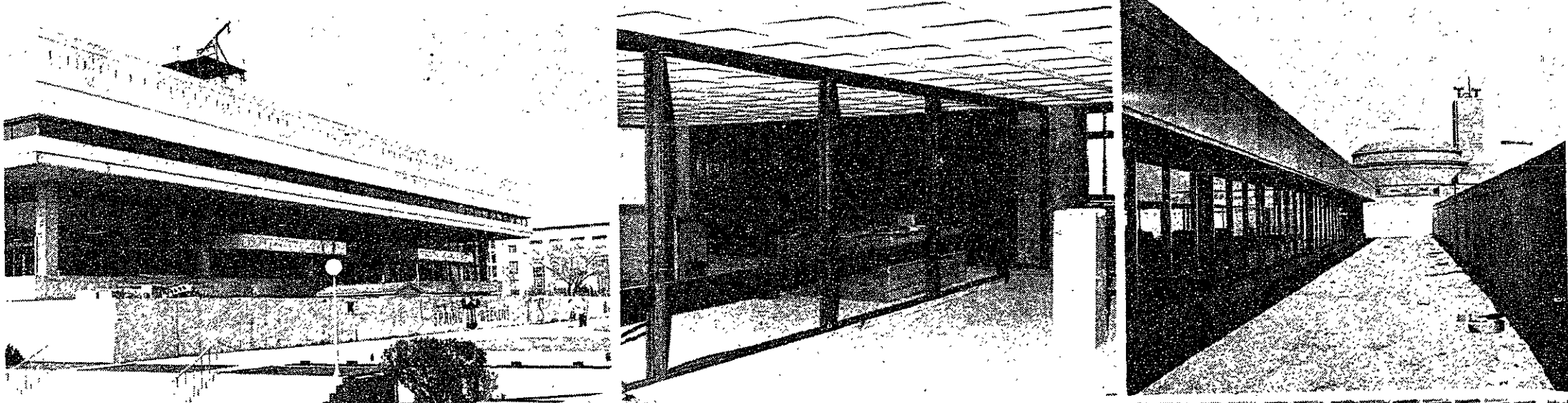
Three receive prizes for original papers

Three sophomores received prizes from the Department of Humanities for original writing in the annual Boit Contests open to the undergraduate body.

The Robert A. Boit Prize for Imaginative Writing was given to Gregory W. Jones, '67 for his short story entitled "Sao Paulo—Three Faces of the City." A second prize has been awarded to R. Dennis Dunn '67 for his collection of poems called "Prayer and Paradox." Mr. Jones will receive \$75.00, and Mr. Dunn, \$40.00.

In the Boit Essay Contest, Charles E. Ko'b, Jr. '67 received the second prize of \$40.00 for his essay entitled "Franz von Papen—A Study." No first prize was awarded this year.

Work on Student Center nears completion



Photos by John Torode

Progress report on Student Center shows interior construction proceeding at swift pace. Interior is expected to be finished in time for the Coop and dining facilities to start moving in this summer.

Preparation is for a September opening of most facilities and activities offices. Formal dedication will be in October or early November.

The Student Center Committee under John Adger '66 will coordinate student adaptation to the new building.

Library hours announced

Reading period library hours

Reserve Book Room

Tuesday, May 25—Friday, May 28	8 a.m.—3 a.m.
Saturday, May 29	8 a.m.—11 p.m.
Sunday, May 30	10 a.m.—3 a.m.
Monday, May 31—Wednesday, June 2	8 a.m.—3 a.m.
Thursday, June 3	8 a.m.—5 p.m.

Summer library hours

Aeronautics & Astronautics	33—316	9—5
Dewey	52—360	9—5
Engineering	10—250	9—6
Lindgren	54—200	9—5
Music	14E—109	9—5
Reserve Book Room	14N—132	12—5
Rotch	7—238	9—5

All libraries will be closed July 4 and Labor Day

Bridge championships attended by Freeman

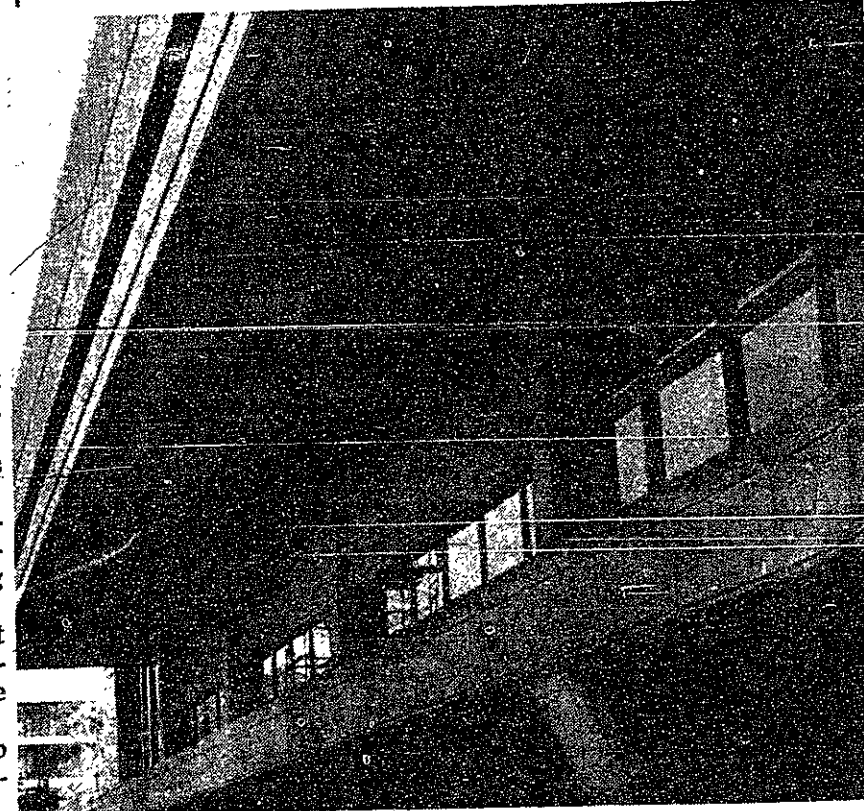
Richard Freedman '65 was named as one of 30 regional winners who competed in the championship playoffs of the 1965 National Intercollegiate Bridge Tournament at the Sheraton-Chicago Hotel in Chicago, May 7 and 8.

The tournament announcement was made by Edward J. Ritter, Jr., tournament chairman.

A record number of 235 schools entered the tournament this year, which is sponsored by the Association of College Unions in cooperation with Whitman Publishing Company of Racine, Wisconsin.

William S. Root, prominent bridge authority, served as tournament director and created the hands played.

The contest is open annually to all colleges in the U.S. and Canada.



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State Science Fair held

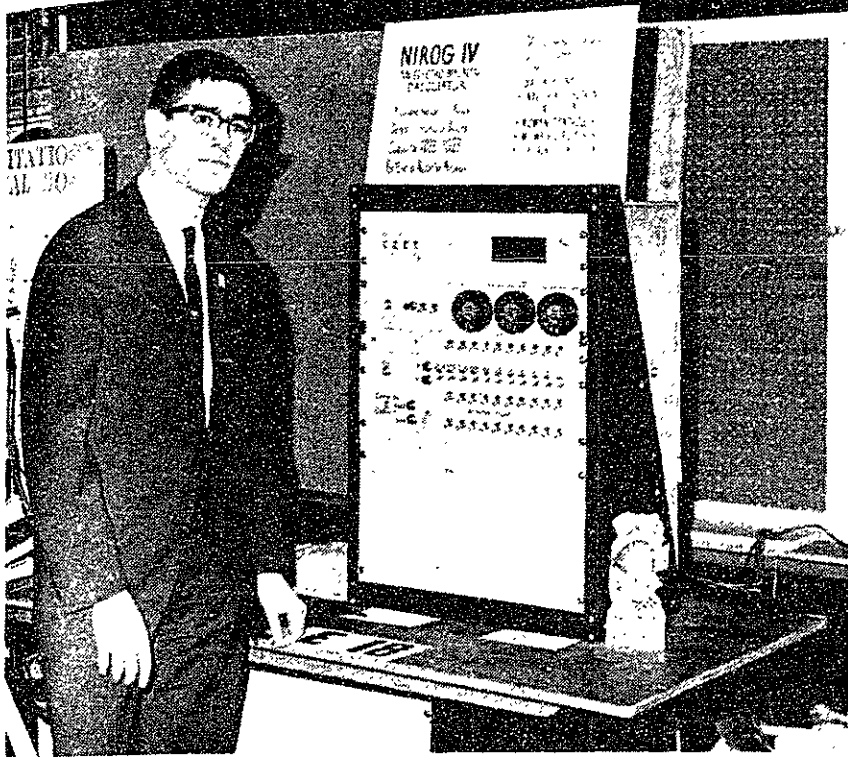


Photo by Norman Neff
Proud high school student stands by his project at Boston Globe Massachusetts State Science Fair held in Rockwell Cage last weekend. Professor George E. Valley addressed award winners Sunday at presentation ceremonies.

Belluschi to plan hillside village

Dean Pietro Belluschi of the MIT School of Architecture and Planning has been named to aid in planning a 3550-acre Mountain community at Santa Monica Mountain property in Los Angeles, Calif.

His appointment to the unprecedented national advisory committee which will assist Sunset International Petroleum Corporation of Los Angeles was announced by Morton A. Sterling, President of Sunset.

The property to be developed is part of the steep, rocky and wild Mountain Park area of Los Angeles, that has hitherto been considered undevelopable.

Dean Belluschi commented, "The planning approach being developed for this project will eliminate much of the guesswork, preserve the intangible assets, and produce a unique rationale for a new type of community in an area where previous standards have not been solidified."

The Dean explained that ideas will be drawn "from the best of the older European city concepts built on hillside land." These ideas will be incorporated into new architecture and construction.

"The planning advisory committee undoubtedly is the largest effort ever made to probe the implications of developing an urban area and retaining the natural beauty and resources," according to Mr. Sterling.

Awards Convocation recognizes students' outstanding contributions

(Continued from Page 1)
upon John M. Mazola '66, a major in electrical engineering. This award provides a stipend covering tuition for the senior undergraduate year and the first year of graduate school.

The award is given "in recognition of demonstrated high character, actions on behalf of the welfare of colleagues, and potential aspects of engineering in business or industry."

Freshman Award

The Tau Beta Pi Outstanding Freshman Award was received by Richard I. Karash, for "distinguished scholarship, integrity, breadth of interests, adaptability, and a high standard of unselfish activity in the community at large."

The Baton Society Awards

The Baton Society Awards, given for outstanding contribution to music at MIT were presented to Richard J. Diephuis '65, Richard N. Gray '65, Brian D. Hanson '65, Paul W. Kasameyer '65, William F. Purves, Jr. '65, and Gerald A. Zaritzky '65.

The Clifford Award

William R. Brody '65, Stockton, Calif., who received the Scott

Award last year, this year won the Clifford Award as "outstanding athlete of the year." This year he was captain of the swimming team and president of the Athletic Association.

Athletic awards

The Eastern College Athletic Conference Merit Medal, given to a senior on the basis of athletic and scholastic achievement, was awarded to James L. Larsen '65 and the Cochran Award for an outstanding senior athlete with qualities of humility, leadership and high scholarship was given to Robert B. Grady, captain of the basketball team.

Gold and silver medals were presented to those who excelled in athletic administration. Recipients of the Gold Medals were William R. Brody '65, Ronald I. Mandle '65, Fred S. Souk '65, William D. Carrier '65, Richard E. Lucy '66, George D. Jones '67, and Thomas P. Sheahan '62. Silver Medals were awarded to Forrest S. Stoddard '66, Richard D. Minnick '65, James G. Jerrell '67, Cassius L. Peacock '65, Herbert M. Trachtenberg '65, and Michael M. Graham '65.

Other awards

Other awards include the Manager of the year Award to Barry L. Gerken, the Quadrangle Club Award to two outstanding freshmen athletes, John C. McFarren and Norman E. Hawkins.

Beta Theta Pi fraternity received the Beaver Key Trophy and the T-Club Trophy for participation and excellence of athletic performance, respectively, in intercollegiate athletics.

Kresge teach-in set for Saturday

Escalation of the war in Viet Nam and intervention of United States troops in the Dominican Republic will be the topics of a "teach-in" to be held at Kresge this Saturday from 11 a.m. to 5 p.m.

A broadcast of the debate between Professor George Kahin and Presidential Assistant McGeorge Bundy, to be held simultaneously at a national teach-in in Washington, will be featured at 2:00 p.m.

The Kresge meeting is being sponsored by the "Committee to Oppose War in Viet Nam," a group composed principally of MIT graduate students and faculty. This organization is one of a number of local academic organizations that have been sponsoring teach-ins at such schools as Harvard and Boston University.

WTBS will broadcast the Saturday meeting in its entirety.

The morning meeting to discuss the Dominican Republic is being sponsored by the MIT committee and will feature professors from local universities.

McCormack chosen for Eastern Board

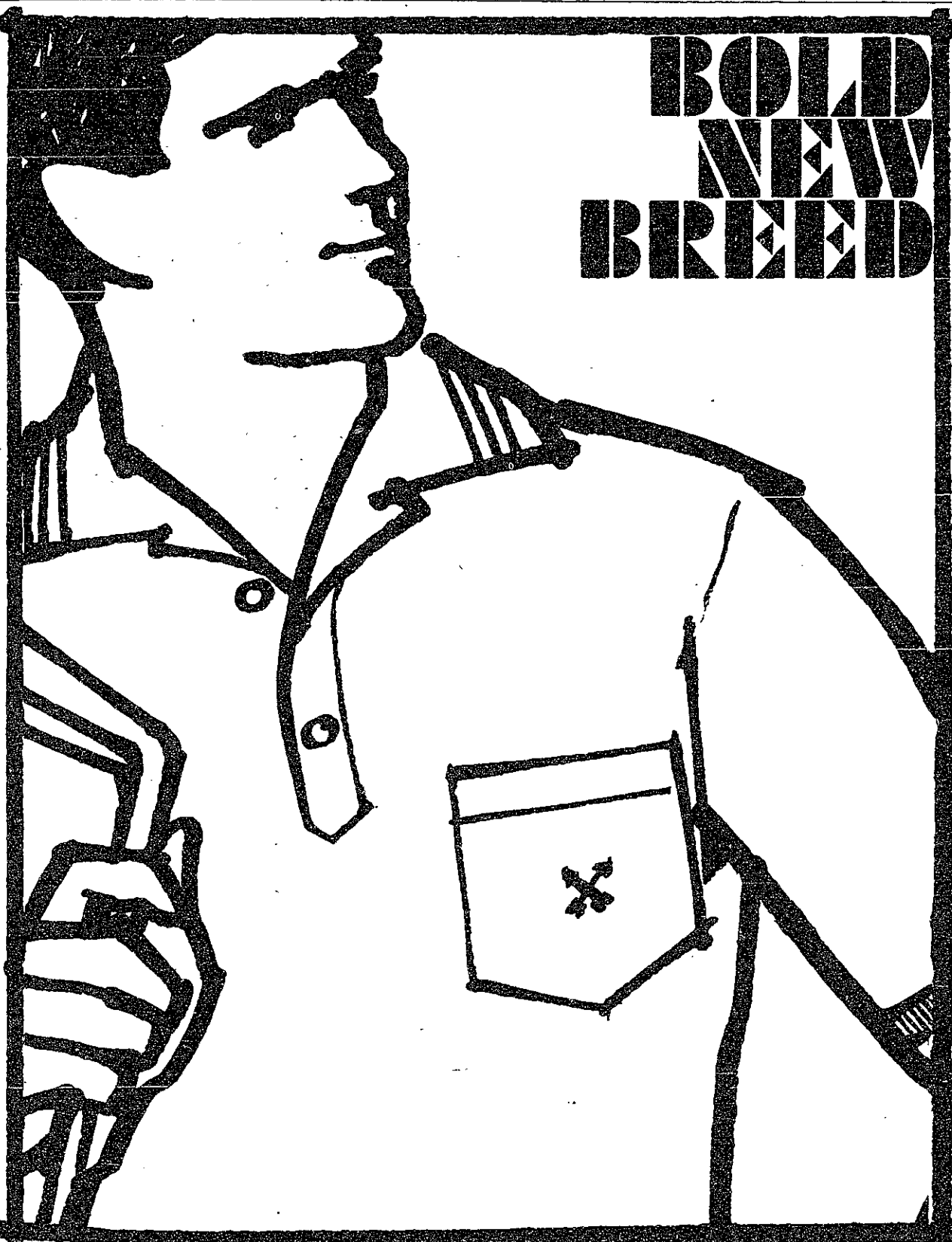
Major General James McCormack, USAF (Retired), Vice President and a member of the Corporation of MIT, has been nominated to fill one of two vacancies on the Board of Directors of Eastern Air Lines.

The other nominee was Theodore R. Gamble, President of the Pet Milk Company of St. Louis, Missouri.

McCormack has been Vice-President since 1957, and participates in the formulation and execution of Institute policy. In addition, he supervises MIT's two largest laboratories: Lincoln Lab in Lexington and Instrumentation Lab in Cambridge.

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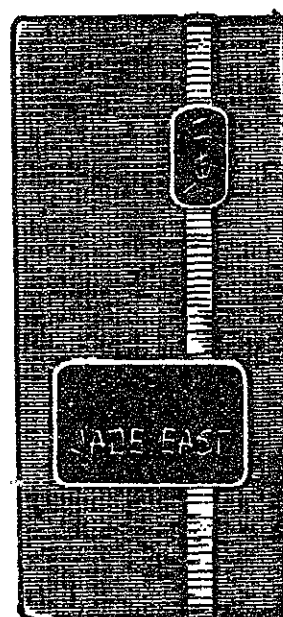
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Awards

At the Awards Convocation Monday the school paid tribute to the members of the community who, in the words of Mrs. Karl Taylor Compton, "have left the campsite better than they found it." MIT may be a small part of an overwhelmingly large and complex world, but we are grateful to those who have contributed their efforts to making it a better part.

We were especially pleased to see Dr. Charles Holt, Assistant Professor of Biology, win the Baker Award for outstanding graduate teaching. If all subjects were taught with as much care and devotion as is Dr. Holt's 7.02 lab, there could be no complaints about uninteresting and uninterested faculty members.

Two new groups, the Gilbert and Sullivan Society and the Social Service Committee, were well represented by the Compton Award winners Michale Efron, Norm Kaderlan, and Steve Lipner. We

wish these fine groups continued success in the future.

We must add one negative note. The faculty canceled all classes during the convocation; yet many instructors either were unaware of the ruling or ignored it. We feel it is out of keeping with the spirit of the awards and their importance to hold classes, even "non-obligatory" ones, at such a time. For a Compton winner to have to ask a friend to take notes while he receives his award is inexcusable.

To all the winners, and to all those who contribute to the extracurricular life of the community, we extend our congratulations and thanks for services well done.

LSC franchise

At the Incomm meeting Sunday, there was discussion of a proposed motion to give LSC the sole right to present films of current entertainment value. At the same time there was discussion of controlling this "monopoly" through some overseeing agency. Since we also are an activity with a "monopoly," we would like to comment on the problem.

It is almost a matter of necessity to grant LSC the franchise. We have been informed from several sources that more than two movies a week tend to compete and kill all profits. Since LSC has a well-established program of both movies and free lectures, we feel that they do indeed deserve preference.

The competition has come from small activities and living groups who wish to make money. Often these are hastily planned; they certainly are seldom set up a term in advance, as is the LSC schedule. While they do have a certain claim to funds, their general service does not approach that of LSC.

Although LSC is being favored by Incomm, we do not feel that any exceptional control of the group is needed. Quite frankly, the LSC men are better equipped to handle their own affairs than are Incomm or AEB members. If any outstanding problems do arise, Incomm and the AEB already have the power to look into the matter. To single out the LSC as a special object of Incomm or AEB overview is to violate that group's autonomy as an activity, and to insult its members' competence as administrators.

We feel that LSC should be granted the franchise, and the matter left at that. Any additional pessimistic structuring of an overseeing agency is unnecessary.

Letters to The Tech

Music at MIT

To the Editor:

In his review last week Mr. Art lamented that the band and orchestra do not sound like the Choral Society. Such a comparison should have never been made. The Society is a near-professional group with virtually no undergraduate representation. The band, orchestra, and perhaps Glee Club exist primarily for the enjoyment and musical development of their members, mostly undergraduate.

I am sorry that the writer of your editorial "Music at M.I.T." found the Hindemith "obscure" and "a bit trying." Perhaps we should have played a Sousa medley to soothe his cultural soul. (By the way, he and the entire community are most cordially invited to the band's open-air pops concert in the Great Court on May 16.) Pops music is fun to

play and hear, but most of the musicians in the May 3 concert feel a greater personal satisfaction in performing works of the stature of Hindemith and Brahms.

On the other hand, the "Glee Club" concert on May 4 was mostly an exquisitely polished performance by five excellent professional soloists and a good professional orchestra. It was a fine performance to listen to. In fact, I would be highly in favor of much more professional music at M.I.T. But such performances should not be given under the guise of student art, nor allowed to usurp the opportunity of undergraduates to feel the satisfaction of artistic participation.

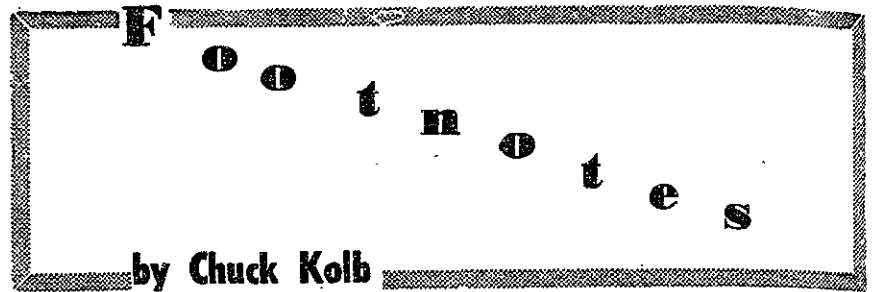
If the editors are still unable to find enough professional performances at M.I.T., I would suggest that they buy season tickets to the Boston Pops. But those of us in the band and orchestra are deeply grateful for the privilege to have worked under a man

of such vision in student music as John Corley.

William J. Podolsky, '65

(We received several similar letters this week, defending the Concert Band in particular. We approve of such loyalty; and if the members of the band are completely satisfied, then the group's main function is fulfilled. But as listeners—and in Kresge Auditorium at that, which other groups would like to use—we put in our opinion last week about playing to the audience too. The attendance at the band concert prompted our worry.

The response we received indicates that quite a few people are concerned with the programming at concerts; if they are successful, there should be high attendance at all concerts. We don't feel that this would necessitate a lowering of musical standards.—Ed.)



by Chuck Kolb

41. Ashdown House (Grad House to those who keep forgetting its new name) will have a new master next year. Professor Francis Bitter, present master, has asked to be relieved because of research commitments; he will be traveling to Los Alamos and back next year on projects.

The master of Ashdown House is appointed by the president of the Institute. There is no news yet on whether Professor Bitter's replacement will be named before the term ends.

42. The New York Times for Sunday, May 2, carried a note that Caltech has yielded to the changing trends in education and will offer a bachelor's degree in the humanities next year.

Caltech says that its students who decide after their second year that they want to major in history, economics or English will be able to do so without transferring.

43. Also, in the book section of the May 2 New York Times is a review of a book titled 'Where Science and Politics Meet' by Dr. Jerome B. Wiesner, Dean of the School of Science and former scientific advisor to President Kennedy.

Dr. Wiesner's book reviews the effect that scientific decisions made in Washington had on our nation's political course and foreign policy. The book is published by McGraw-Hill Book Company of New York.

44. A review of another recently published work by an-

other former presidential scientific advisor can be found in the Science section of this week's 'Time' magazine.

The former advisor is Dr. Vannevar Bush, honorary board chairman of the Corporation. Writing for the current issue of 'Fortune,' Dr. Bush explores the limits of science and writes that science cannot be expected to go beyond delineating the probable nature of the universe. Those 'who follow science blindly come to a barrier beyond which they cannot see,' states Dr. Bush.

45. One of the funniest articles we've read appeared on the front page of a recent Harvard Crimson. According to the Crimson Cambridge's Civil Defense director, Charles F. Donohoe, was told by Harvard officials that Harvard would not let the CD stock any more Harvard buildings designated as fallout shelters until they found out whether Tech was going to stock its 35 buildings which are similarly designated.

Later in the article came the inevitable announcement from a Harvard Vice President that 'there is no connection between what Harvard is doing about shelters and what MIT is doing.'

46. One place where MIT and Harvard do co-operate suffered a severe blow last Thursday. An early morning fire at the Cambridge Electron Accelerator, owned and operated jointly by the two universities, caused an estimated \$100,000 damage.

Kibitzer

By Mark Bolotin

North			
♠ Q J 3			
♥ A J 10 8 6			
♦ none			
♣ K Q 9 7 3			
West		East	
♠ A 10 5		♠ 6	
♥ K 7 5		♥ 9 4 3	
♦ Q J 9 4 2		♦ K 10 7 6 3	
♣ 6 2		♣ J 10 8 4	
South			
♠ K 9 8 7 4 2			
♥ Q 2			
♦ A 8 5			
♣ A 5			
Bidding			
East	South	West	North
pass	1♠	pass	2♥
pass	2♠	pass	3♠
pass	4♠	pass	6♠
pass	pass	pass	

Opening lead: queen of diamonds.

Today's hand shows how delicate timing can be and how important it can be to the result of a contract. However, before a discussion of the play can begin, a word is necessary about the bidding. North-South were using the Kaplan-Sheinwold bidding system, so that South's opening showed a five card suit. North's bidding sequence of two hearts followed by a raise of his partner's suit is forcing to game. South was being rather ambitious with his cue bid, but he felt he

should show his ace while he could.

Declarer was faced with a choice of plays for his contract. If spades break or if there is a singleton ten, he can ruff two diamonds and stuff a heart on a club. If clubs break, South can ruff a diamond and stuff a diamond and a heart. If the king of hearts is onside, diamonds can be thrown on either clubs or hearts. South chose to play for the club break with the possibility of the heart finesse if hearts didn't break.

The opening diamond lead was ruffed on the board and the queen of trumps was led around to West's ace. West then returned the seven of hearts. Declarer was once more hit by the problem of how to play the hand; for, he had hoped to avoid the heart finesse unless clubs didn't break. South finally decided that West probably wouldn't have led hearts if he held the king, and cashed the ace. Trumps were drawn, and the top clubs were played. When the suit didn't break, a heart and a diamond had to be conceded for down two.

The importance of timing in the hand can be seen by observing the effect of other leads by West.

With an opening heart lead, declarer probably makes the contract. He has to choose between two plays. He might play for the club break, but if he does, he has problems with entries to stuff his diamonds unless spades break. Declarer is more likely to take the successful heart finesse. If West does not switch to a heart when he takes his ace of trump, South has time to discover that clubs don't break and is forced to finesse the heart.



PEANUTS appears daily and Sunday in the Boston Herald.

Glennan named president of AUI; will oversee research facilities

T. Kieth Glennan, retiring President of Case Institute of Technology, will become President of Associated Universities, Inc., of New York.

The announcement was made by Dr. Carl Floe, Chairman of the Board of AUI. Glennan will replace retiring President T. P. Wright, formerly Vice President for Research at Cornell University.

AUI was started in 1946 as a nonprofit corporation sponsored by nine eastern universities: Columbia, Cornell, Harvard, Johns Hopkins, MIT, University of Pennsylvania, Princeton, University of Rochester, and Yale.

Operation, under contract to the United States Atomic Energy Commission, of Brookhaven National Laboratory at Upton, Long Island, is the main activity of the corporation.

AUI also operates the National Radio Astronomy Observatory in Green Bank, W. Va. Funds for the operation of the observatory,

which includes a 300 foot radio telescope, are supplied through a contract with the National Science Foundation. Brookhaven and Green Bank, both national laboratories, provide facilities to all qualified scientists without regard to their academic affiliations. Research opportunities are also available to undergraduate and to graduate students.

Bonus satellite to make Doppler measurements

(Continued from Page 1)

conditions. Such measurements, including the multipath (time-delays) and Doppler (frequency) spreading caused by various atmospheric conditions, are of considerable importance in the design of space communication systems.

The sphere also provides additional information about the shape of the earth's gravitational field while traveling in its 1500 nautical mile circular orbit.

Psychology Dept.

Developmental psychology studied

Editor's Note:

In two earlier issues *The Tech* described investigations in MIT's new Psychology Department in the areas of physiological psychology and in the area of perception and learning. In this third and final article, *The Tech* cites selected studies from a third area: the current work of the Psychology Department on social-developmental and comparative psychology.

By Al Green

In its threefold plan for research on behavior, the Psychology Department utilizes methods ranging from biophysics and neurophysiology to direct observations of human beings alone or in groups, in more or less natural settings. In the third area of endeavor, social-developmental and comparative study, early development of human infants is observed and recorded in special nurseries and orphanages where the growth of coordination can be hastened by special forms of enrichment of the babies' environment.

This work is carried out by Dr. Burton L. White and Miss Kitty Riley, who are applying the theories of Dr. Richard Held to the development of infants. They note that the most severe form of deprivation in such orphanage-reared babies may well be the absence of opportunity for active movement on the child's part, so that the severe retardation found in these children can be overcome, at least in part, by providing opportunity for reacting to special toys dangling overhead or on the sides of the crib.

In similar studies, Drs. Thomas E. Twitchell, Suzanne H. Corkin and Hans-Lukas Teuber are exploring the normal course of infant development as contrasted with that of neglected and brain-injured children reared in various institutions. With the establishment of the new MIT Clinical Research Center in the Daggett Building, the Department of Psychology has been able to carry out extensive work with these deprived children. In this center, these infants are given a maxi-

mum of attention and care with astonishing results.

Children begin to talk

Within two weeks, one group of children who had not been able to speak more than a few words and who were otherwise entirely uncommunicative and withdrawn, came to chat fairly freely with the investigators. The different stages in this language development are tape recorded and subjected to various forms of linguistic analyses, primarily by Mr. James Lackner, who works under the guidance of Thomas Bever. The results suggest certain general principles of language acquisition.

Additional work in "psycholinguistics," under the overall guidance of Dr. Jerry A. Fodor and Mr. Thomas G. Bever, with Messrs. James Lackner and Robert Kirk, employs the device of putting dissimilar messages into the two ears of a listener. Beginning with normal adults, a sentence is presented to one ear and a brief click at some point within the sentence to the other ear. The normal listener tends to misjudge the position of the click within the sentence, in keeping with the perceived syntactic structure of the sentence. Extension of this technique to use with normal and retarded children is being explored.

Acquisition of social standards

One of the central problems in the study of social development is the acquisition, by normal children, of social standards and values. Some of the members of the department are tackling this problem in a very direct way. Earlier, pioneering studies by Piaget have indicated that young children are more susceptible to social influence than older children and adults. There seems to be a maturing process as one grows up leading from other-directed to self-directed systems of values.

Dr. Herbert D. Saltzstein has been investigating how young children acquire their social norms and values, in the hope of isolating the exact normal influences in growing children. To test the effectiveness of certain types of social pressures, boys and girls, aged 8-14, are shown irregularly spaced patterns of dots projected on a screen and are asked to estimate the number of dots seen.

When the estimate is done in the presence of a disturbing influence, such as a note purport-

edly passed from a peer suggesting an abnormally high count, susceptibility to suggestion is determined. Variations of the experiment are done in the presence or absence of peers to check on the persistence and nature of social influence at different ages.

While much can be learned from such a direct approach to development of complex aspects of human behavior, the department is also using the time honored approach of studying development in lower forms, in order to compare fundamental aspects of behavior at different levels of phylogeny and ontogeny. This work spans such diverse species as baby monkeys, kittens, hamsters, tree shrews (*Tupaia*), and goldfish.

Eye-hand coordination studied

In a special monkey nursery, development of eye-hand coordination and other basic forms of motor control are studied by Mr. Joseph Bauer in stump-tail monkeys born in the laboratory's colony. Work on the rare animal, the tree shrew, proceeds elsewhere in the laboratory, with emphasis on the behavioral capacities of these swift squirrel-like animals from Indonesia who have been variously classified as insectivores (related to bats and hedgehogs), as true primates (primitive monkeys), or as a very odd and isolated group of animals that is neither insectivore or primate.

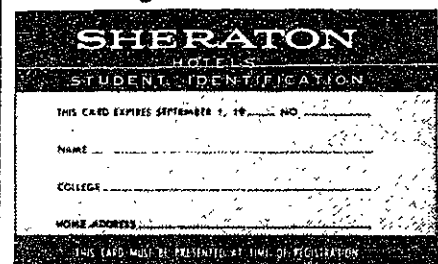
In contrasting different levels of evolution, more primitive forms among the mammals have often been thought to be motivated merely by food-seeking and other elementary drives. Mr. Gerald E. Schneider, in the department, has shown, however, that hamsters will run a maze for the sole reward of finding some new toy at the end of their runway. "Curiosity" thus can be strongly motivating, even at that phylogenetic level. Toys familiar to the animal are less rewarding for the hamster, even months after the animal had first encountered them.

Kittens used in experiments

Fundamental insight into the origin and maintenance of sensorimotor coordination can be derived from work with newborn kittens. Drs. A'an Hein and Richard Held, together with Miss Ellen Carol Gower, are continuing their intensive work with kittens reared in darkness who are per-

(Please turn to page 11)

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College World

7800 returns from Operation Match; Coeds get INC in ROTC classes

By Jeff Trimmer

The returns are all in by now on Operation Match, the compatibility research project carried out by several Harvard students. The project processed over 7800 returns from New England college students, and used a computer to attempt to match "ideal" dates.

But the returns are in and reported a number of dates are planned for the weeks to come. Not all the returns were as satisfactory as the ideals might suggest. Vicki Albright, the UCLA coed, who appeared on the cover of Newsweek magazine, was scheduled to be matched with her ideal when she arrived for her weekend at Boston. But the computer ran until Monday afternoon, long after she had left Sunday, and was still unable to match her to her ideal.

One Wellesley freshman I talked to had received her returns and had talked to a couple of the guys. One was "very nice," she said, but he was a senior and would be in Berkeley next fall. Another, she told me had, as he put it, "many, many stories" to tell her. He also wanted to know what colleges were in Wellesley. Never had heard of the Seven Sister school in our midst.

Other bloopers we have heard about: One Harvard student received 69, count them, 69 names; and a New Yorker had at last count received 230. Another girl, while talking to a prospective date, mentioned that she had talked to some boy earlier who had been a bit dismayed to discover that he was 4 inches shorter than she. The boy on the telephone timidly asked her how tall she was. "Six feet" was the reply.

More on Wellesley rooming

The comments in this article that appeared a short time ago on Wellesley rooming appeared to have stirred up some controversy. But there is more to report on the tradition of rooming at that campus.

Wellesley rooms by class, i.e., seniors first and on down the line. So the soon-to-be sophomores pretty much get the bottom of the totem pole. Consequently, when friends in the various classes try to arrange to room close together, new tension is added. Sophomores trying to room close to juniors or seniors must be even sneakier in how they choose a room.

Rooming is usually preceded by hordes of girls stealthily prowling the halls of various dorms in search of a new haven. And when

sophomore comes upon an area that has tentatively been staked out by a group of girls, some of whom have already completed their rooming, sparks begin to fly. One report we heard of came about two wide-eyed (they still were) freshmen in search of a room.

Record players immediately went up to full volume to demonstrate the total lack of any study atmosphere. Other girls, all in various states of undress, dancing to the Kingsmen, were heard to sing 'Louie-Louie' at the top of their voices. The freshmen were fed comments like: "Are the showers cold again? Oh, damn, I'm sick and tired of getting up at 3 and 4 in the morning to take a shower." Or, "Hang on to your seat, here comes another damn train." Add this inhospitable atmosphere to the general caustic comments of an 'in' crowd and the poor freshmen never had a chance.

PockeTutor investigated

Federal, county and city authorities in Seattle, Washington, have started an intensive probe into 'PockeTutor' the Ohio State Lantern reports from the Daily Northwestern.

The PockeTutor, which sells for \$19.95, is a small packet run by twin penlight batteries, which fits in a shirt pocket. A roll of paper inside (with equations, formulae, or anything on it) rolls past a transparent window on top of the gadget.

It comes with a short wire push-button control or for another \$9.95 with a fake wrist watch which, when tilted, turns on the machine.

Nothing is said in the advertising for PockeTutor about the possibilities for cheating on exams. But then imagination takes little effort.

Ugly Greeks sought

The Michigan State Greeks are engaged in a rather peculiar search. For a price any fraternity man or sorority woman can cast his or her vote for the "Ugliest Greek." Votes are cast not by ballot but by the amount of money each candidate accumulates. The money is donated to a

local charity.

In other areas at Michigan State, two freshman coeds were quite surprised when they were informed that they were receiving "incompletes" for not attending ROTC-100 classes. An assistant professor of military science said that it was a sign of the times believing things were getting pretty liberal when women are allowed to take ROTC.

It seems that the ROTC registration desk was next to the social science registration desk.

Nudists mixed

The president of Shimer College, Mount Carroll, Ill., decided that it was not in the best interests of the college to accept an offer from a nudist organization to lease the campus for the summer, even though the revenue was badly needed.

The University Daily Kansan reveals that the 23 girls who have their living quarters in laundry rooms because of temporary overcrowding are adjusting quite well. One of them voiced a complaint resulting from the girls who keep coming into her room to wash their feet in her big sink.

International Cooperation year brings emphasis to visits of American homes by foreign students

Foreign students who are interested in learning more about American life by visiting in American homes are offered such an opportunity through Servas. This is a volunteer organization whose hundred of hosts throughout the USA have opened their homes to foreign travelers in an effort to promote peace through understanding. Servas hosts have invited travelers into their homes for a visit of two nights to share their ordinary home life and to exchange opinions, ideas and experiences. Accommodations are simple, and hosts offer their hospitality without charge.

In this International Cooperation year, the U.S. Servas Com-

Service projects run by SSC need summer volunteers

By Dan Allen

The MIT Social Service Committee has been coordinating the efforts of over a hundred volunteers in community service projects this year. These projects will be continued through the summer and greatly expanded in the fall, with the help of more volunteers.

Some 60 tutors are working with children in the housing project and surrounding area behind Tech Square. The effort is to do more than just help with academic subjects. Tutors act as big brothers trying to present an image associated with education that the children can respect. The program has been successful over the last year and a half, and the Cambridge Alliance of Settlement has encouraged SSC and Lesley College volunteers to continue.

SSC and a committee of the faculty will be running a summer school for seventh graders at MIT. This is a pilot program and will be carefully studied to see the effects of different teaching techniques on culturally deprived children.

Students who will be in Cambridge this summer are needed to staff the Tutoring, Hospital and Summer School projects. In addition, the Technology Communi-

ty Association will be carrying on its mental hospital work project through the summer, and there is a novel summer reading and discussion program with academically advanced but underprivileged students in the summer before their first year in college.

In any of these projects volunteers spend 2 to 4 hours a week, including projects throughout the summer. Persons coordinating the programs include: Joel Karnofsky, '67, of Burton House; Mike Efron, '65, of Baker House; Ann Kazanow, '66, of McCormick Hall; Chris Scott, '67, of Bexley Hall; Dave Berrian, '67, of East Campus; and Paul Gustavson, '66, of Lambda Chi Alpha.

Students interested in either the summer program or the fall projects may contact any of the above persons or may inquire in the TCA office, 50-105, with Dotsie Reed, ext. 4885, or call Dan Allen, 491-4363, after 6 p.m.

Toulmin talk given by Humanities Dept.

'Physics and the Historical Process' will be the topic of a lecture by Prof. Stephen Toulmin, fellow of King's College, Cambridge, Friday, May 14, at 4 p.m. in the Hayden Library Lounge.

Prof. Toulmin will explain how distinguishing the kinds of theory which have developed over the course of history and understanding historical disagreements on abstract points of science can provide tools for dealing with the crucial issues of modern physics.

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Young prodigy to enter Tech in fall: Fano talks to Britain plans to correct Einstein's mistakes via Early Bird relay

Among those accepted to next year's freshman class is a fifteen year old Richard Stern from Beverly Hills.

This fact in itself is nothing astonishing, according to his hometown newspaper, but when his other attributes are considered one can not help to be amazed. Having taught himself calculus, he is developing his own branch of mathematics — "Non-Euclidean Analysis" — and he has a "unified field theory" which attempts to explain "the similarities between magnetic electrostatic and gravitational forces and the forces within the nucleus of the atom."

He feels his branch of mathematics is necessary because conventional (Euclidean) math cannot cope with the problems he is trying to solve. In a summary of his theory, he hints that he might prove Einstein wrong in his approach to the unified field theory:

"... I have taken care not to make the same errors as Einstein did, and I fully believe that my theory will be able to agree with both relativity and quantum theory..."

At MIT, where he feels the laboratory magnetic forces are of sufficient strength, he will be able to test his theory.

A television interview dealing with recent computer work at MIT was carried out Monday, May 10, for inclusion in a British TV program via the Early Bird satellite between Cambridge, Mass., and Manchester, England.

The signal from Early Bird was taped at Granada Studios, Ltd., and will be used in a series of six documentary TV shows called "Machines of a New Age." Professor Robert Fano, director of MIT's Project MAC (multiple access computer), among other workers, was interviewed for this telecast.

Professor Gray receives \$220,065 medical grant

A Boston area medical scientist has received a three-year \$220,065 grant from the John A. Hartford Foundation, Inc., to support studies of how disease and malnutrition can alter the way the body absorbs nutrients from ingested foods.

The scientist is Dr. Seymour J. Gray, associate clinical professor of medicine at the Harvard Medical School and a member of the staff at the Peter Bent Brigham Hospital who is spending this year as a visiting professor in the Department of Nutrition and Food Science at MIT.

Announcement of the grant was made jointly by Mr. Ralph W. Burger, president of the Hartford Foundation, and President Julius A. Stratton of MIT. The Hartford Foundation is a charitable organization, with offices in New York City, engaged in promotion of medical research.

Dr. Gray's studies will focus

on the intestinal absorption of amino acids, fatty acids and minerals. He will carry out the studies with subjects hospitalized at Tech's new Clinical Research Center, a small fully-equipped research hospital established as a regional facility by the Department of Nutrition and Food Science under a grant from the National Institutes of Health.

Nutrient absorption from foods occurs through tiny hair-like cells, called villi, that line the walls of the intestinal tract. Dr. Gray hopes to determine how diseases, diet and nutrition affect ability of the villi to absorb and transport them into the blood stream where they can be used by the body.

Tech Show seeks help for next year

Anyone interested in helping with the 1966 Tech Show is invited to attend the open meeting of its managing board tomorrow afternoon at 4:00 pm in the Miller Room, 3-070.

Help is needed in the following fields: writing, designing, technical, acting, music, and composing. Prof. A. R. Gurney, advisor to Tech Show, will be present.

Further questions should be directed to Stuart Vidochler, extension 3783.

Hewes appointed dean at UConn

Robert E. Hewes, Director of the Office of Institutional Studies, has been named Dean of Students at the University of Connecticut.

Mr. Hewes was Registrar from 1956 through 1963, when he assumed his present position. He will assume his new capacity August 1.

His duties will include overseeing the Dean of Men, the Dean of Women, the Placement Office, the Student Union, the Registrar, and the Admissions Office.

European flights sponsored at low rates

Technology Student Enterprises is again sponsoring a charter flight program to Europe this summer.

The two trans-Atlantic flights each offer savings of more than \$200. Flying by Jet-Britannias on British Eagle Airways, MIT participants have a choice between an all-summer excursion (June 17-September 14) and a shorter five week flight (June 27-July 29). A few seats are available on both flights, according to Flight Manager George Barbeco.

Continually enlarging its flight program, TSE this year is handling all connecting flight arrangements; tours; automobile purchase (at duty-free rates), rental, and leasing; and almost everything in the area of travel.

"We will continue to expand," declared Barbeco, "and more convenience and economy will be offered to the MIT community."

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Marcello Mastroianni in "The Organizer," 5:15, 7:30, 9:45, Met. Sat. at 3:00. Humphrey Bogart Cycle starts Sunday with "High Sierra"; Monday, "San Quentin"; Tuesday, "The Oklahoma Kid"; Shows daily 5:30, 7:30, 9:30, Met. Sunday at 3:00. "Batman" with all shows Monday and Tuesday.

music at mit...

G&S 'Patience' a success despite chilly air

"PATIENCE", a musical farce, presented May 6, 7, 8 in the MIT Hayden Court by the MIT Gilbert and Sullivan Society. Produced by Norman Kaderian. Directed by Steven Gifford, starring Mayer Wantman, John Rainier, Constance Miller and Ellen Stevens.

By Dave Swedlow

For a moment last weekend MIT experienced a delightful return to a by-gone era. The MIT Gilbert and Sullivan Society, in keeping with their fine tradition, presented the musical farce 'Patience' for the enjoyment of all. Sincere congratulations go out to all those who participated. The choice of location for the

play was a very good one indeed. Even though a slight chill in the air turned out to be cold, the atmosphere provided by using the outdoor tent-theater technique more than made up for any slight discomfort due to the weather.

Being a musical farce, 'Patience,' naturally enough, had many singing parts, some choral and some solo. The female chorus, the Twenty Young Maidens, sang quite well as a group but fell apart when the time came for solos. The one bad feature of the Hayden court is the acoustics, and the two microphones hanging from the tree were unable to correct this or to make up for the already weak solos.

The real credit for making the evening so enjoyable must go to the four leading characters. Each one was perfectly type-cast for the role he or she played.

Constance Miller, as the massive, yet faithful-to-the-end Lady Jane was an endless source of comic humor. And not only could she act with gusto and a sense of joy, but she sang her parts beautifully.

John Rainier, playing the super-conceited, Archibald Grosvenor, was equally effective in the narcissus-like adoration of his own beauty.

Reginald Bunthorne, played by Mayer Wantman, was perhaps the funniest of them all. Dressed in purple velvet, a pink ribbon, and purple eyes, he presented the perfect image of a conceited and hollow sham.

The charm and clarity of voice presented by the heroine Patience,

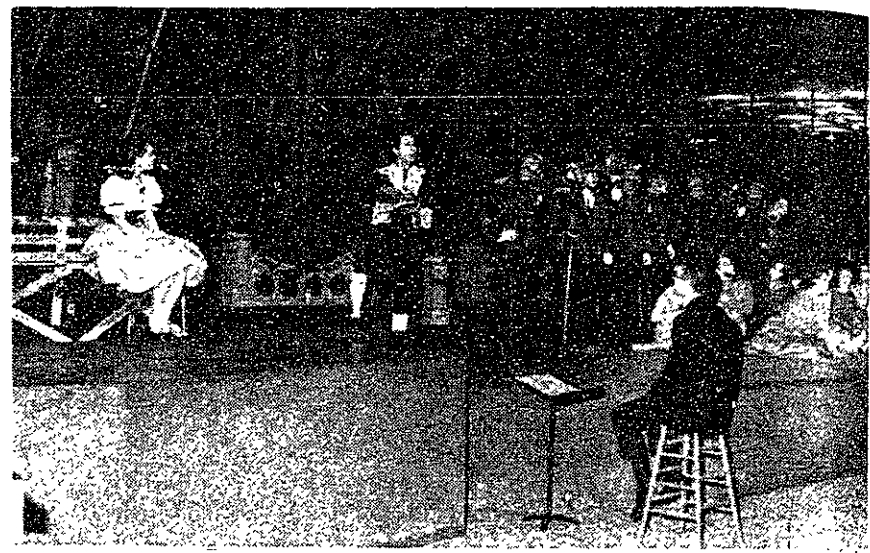


Photo by John Torode

Shown here on the portable stage specially constructed by the G&S Society are Patience, sung by Ellen Stevens, and her suitor, Reginald Bunthorne, sung by Mayer Wantman. Dragons and Maidens loaf behind.

played by Ellen Stevens, was the highlight of an already marvelous evening. Her diction and voice were flawless.

The overall impression of this performance is one of great suc-

cess. If the audience had as much fun watching the play as the players had in putting it on, and I'm sure they did, then the evening couldn't help but be the wealth of enjoyment that it was.

MIT Concert Jazz Band welcomes spring in style

By Bonny Mavis Chang

A Sunday evening concert requires some effort on the part of the performing group to attract a crowd. The Concert Jazz Band, despite considerable publicity and free tickets, only drew a sparse crowd to its concert last Sunday. A sort of casual reputation has been associated with the Tech-tonians. Anyone at the concert Sunday would agree that this is a serious group of musicians. To get away from their old image, the group has been renamed the Concert Jazz Band. The biggest step in renovating the band came two years ago with the hiring of leader Herb Pomeroy.

The band featured mostly original arrangements at its concert, a great improvement over past years of stock arrangement concerts. 'Aluminum Baby,' which featured the solid sax section, was called one of the best arrangements at the Intercollegiate Jazz Festival (which the band recently attended) in Down Beat. Carey Mann, chosen best guitarist at that festival, took solos in many of the numbers.

One of the band's shortcomings

in the past has been a weak brass section. This has been corrected, perhaps overly so. Soloists Sandy Morganstein (tenor) and Bill Richards (alto) were often masked by the ambitious brass backgrounds. The positive side of the new strength was evident in the full sounds of 'Half Nelson' and other big numbers. The trombone section, though displaying considerable technical ability on 'Ossified,' was conspicuously lacking in soloists.

The need for more soloists was mentioned by Pomeroy in reference to the loss this year of soloists Don Giovachino, (trumpet) and Sandy Morganstein (tenor). Also graduating is Bill Purves, president and leader of the upgrading of the band over the last three years. Pomeroy invited any interested musicians to audition for next year's band on May 19.

Hopefully, next year's concerts will be better attended. The Concert Jazz Band is certainly trying hard to make jazz an important part of music here at MIT.

'The Fountainhead' to be shown at MIT

The movies, *The Fountainhead* and *Master of the World* will be presented in Kresge Auditorium at 7:30 p.m. next Wednesday, May 19. Admission to both films will be fifty cents at the door or in advance.

The screenplay of the first feature, *The Fountainhead* was written by Miss Ayn Rand, author of the best-selling novel of the same title upon which movie was based. Produced by Henry Blanke, and directed by King Vidor, *The Fountainhead* stars Gary Cooper, Patricia Neal, and Raymond Massey.

Master of the World, based on two novels by Jules Verne, stars Vincent Price, Charles Bronson and Mary Webster. Both films will be presented by the MIT Radicals for Capitalism.

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spring festival . . .

'Missa Solemnis' stirring and vivid

Cartoonist Jules Feiffer to speak here tomorrow

By Paul Kasameyer

The MIT Spring Festival of Music was brought to a close last Saturday night in Kresge Auditorium as the Choral Society, members of the Glee Club, the Cambridge Festival Orchestra, and soloists combined to present an exciting performance of the Beethoven 'Missa Solemnis in D, op. 123.' The Mass is by nature a symphonic work whose form is dictated by the text of the mass, yet it is filled with intense drama and vivid imagery.

The five sections of the Mass are 'Kyrie,' 'Gloria,' 'Credo,' 'Sanctus and Benedictus,' and 'Agnus Dei.'

The 'Gloria' begins with an exciting allegro chorus whose recurring theme (Glory to God) unifies the movement. This exciting theme is contrasted with "Have mercy on us," which weaves through the continued praise of the mighty Lord, as if Beethoven will not let us forget our lowliness. Dean Wilder, a new tenor for the Choral Society, sang his solo roles strongly in the Gloria. The audience applauded enthusiastically for the stirring finale.

The most beautiful section of the Mass is the 'Sanctus and Benedictus.' It begins with a rich quartet section, almost audible above the loud violins. The quartet of soloists demonstrated its



Photo by Jim Robertson

Soloists Helen Boatwright, Eunice Alberts, and Paul Matthews, and Director Klaus Liepmann take their bows in one of the many curtain calls demanded by the audience. The Cambridge Festival Orchestra assisted the Choral Society.

professional ability here with superb balance and warmth. Beethoven represents the climax of the Mass, communion, with an orchestral prelude featuring a solo violin, played by concertmaster Robert Brink. The excellent performance here made this the dramatic highlight of the evening. The final fugue, 'Hosanna in excelsis,' is great music, filled with a majestic yet peaceful joy appropriate to the culmination of the Mass.

Not until the Agnus Dei could

the alto, Eunice Alberts' and bass, Paul Matthew, show their solo talent. In this movement, as in the others, Helen Boatwright was a joy to listen to. However, it seemed that the whole performance of this movement slacked here after the intensity of the preceding section. The near-capacity audience called Professor Liepmann and the soloists back many times and gave Mr. Brink, the chorus and the orchestra well-deserved applause.

Beethoven's late choral works are so massive and complex in construction and intent that I cannot claim to understand it enough to criticize any interpretation. A live performance as enjoyable and exciting as this, can add so much more to one's understanding of the work and the composer than can a recording.

Making the Scene

S	M	T	W	T	F	S
			12	13	14	15
16	17	18	19	20	21	22
23	24	25	26			

THIS WEEK MUSIC

Boston Pops Orchestra—Concerts: May 11, 12, 13, 14, 15, 16, and 18; Symphony Hall; tickets \$1.00 to \$4.00; call CO 6-1492.
New England Conservatory—Concert of instrumental music: May 12, 8:30 p.m.; Jordan Hall; admission free.
New England Conservatory—Recital by Marietta Henry, violin; May 13, 8:30 p.m.; Jordan Hall; admission free.
New England Conservatory—Piano recital by Melvyn F. Springer; May 14, 8:15; Conservatory Recital Hall; admission free.
Kingsmen—May 14, 8:30 p.m.; Back Bay Theatre; tickets \$2.50 to \$4.50.
The Kingsmen—May 15, 8:00 p.m.; MIT Armory; admission \$5.00 per couple. Free Banana Juice.
MIT Concert Band—Concert in the Great Court; May 16, 3:00 p.m.
Boston Opera Group—Moussorgsky's 'Boris Godunov'; May 17; Back Bay Theatre. With George London.
MIT Organ Series—Hans Heintze; May 18, 8:30 p.m.; Kresge Auditorium; tickets \$1.50.
Concert of Cantatas—The Cantata Singers and Ensemble, with the MIT Brass Ensemble; May 19, 8:30 p.m.; Lucy Wheelock Memorial Auditorium Wheelock College; donation \$1.50 (students \$1.00).

THEATRE

Harvard Drama Society—'Treason At West Point' by James A. Culpepper; May 12-15, 8:30 p.m.; Loeb Drama Center; tickets \$1.50 and \$2.00.
Community Players—Anton Chekov's 'The Cherry Orchard'; May 13-15, 8:15 p.m.; tickets \$1.00 Thursday and \$1.50 Friday and Saturday. Kresge Auditorium Little Theatre.

LECTURE
International Student Association—'The Experiment in Yugoslavia' slide talk by Bill Carter; May 12, 8:00 p.m.; admission free.
Humanities Dept. Lecture—'Physics and the Historical Process'; Prof. Stephen Toulmin; May 14, 4:00 p.m.; Hayden

Library Lounge; admission free.
International Student Association—'American Culture through Foreign Eyes'; Prof. Lawrence Fuchs, Brandeis; May 16, 8:00 p.m.

FILMS

Israel Club—'Sallah', Israeli film comedy with English subtitles; May 16, 8:30 p.m.; Kresge Auditorium; tickets \$1.50.

International Student Association—'Artistry in Nature', slide show by Fergus Moore; May 19, 8:00 p.m.

NEXT WEEK MUSIC

New England Conservatory—Conservatory Opera Theatre, Handel's 'Acis and Galatea', and Martinu's 'The Comedy on the Bridge'; May 21, 22, 8:30 p.m.; Jordan Hall; admission \$1.50.

MIT Chapel Organ Series—Victor H. Matfield, MIT; May 23.

THEATRE

Community Players—Anton Chekov's 'The Cherry Orchard'; May 20, 21, and 22, 8:15 p.m.; tickets \$1.00 on Thursday and \$1.50 Friday and Saturday. Kresge Little Theatre.

MISCELLANEOUS
International Student Association—'Peace Corps: A Vehicle of American Foreign Policy', panel chaired by Richard Sharpe; May 23, 8:00 p.m. DeMolay Movie—May 25; Kresge Auditorium.

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(See Tech Show Story Page ?)

The Lecture Series Committee will present Jules Feiffer in Kresge auditorium at 8:00, tomorrow, Thursday, May 18.

Jules Feiffer's cartoons first gained attention nine years ago when they were presented in the Greenwich Village weekly The Village Voice. Today, his syndicated cartoons appear in over fifty newspapers in the United States and in quite a few newspapers and magazines abroad. His books have been translated into six languages.

Mr. Feiffer appears regularly in Playboy (His most recent char-

acter is Hostileman) and has also appeared in Harpers, Horizon, Mademoiselle and Holiday.

His books include Sick, Sick, Sick; The Explainers; Passionella; and Harry the Rat with Women. His animated cartoon, Munro, won an Academy Award in 1961.

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LECTURE SERIES COMMITTEE PRESENTS

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Saturday—May 15

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TOMORROW—May 13

A lecture by

JULES FEIFFER

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SUNDAY—May 16

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drama . . .

How to get ahead without working

'THE BEAUX' STRATEGEM', a Restoration Comedy by George Farquhar; directed by Paul R. Barstow; cast: George Kirwin as Boniface; Linda Riebel as Cherry; Richard Gebow as Archer; Peter Haggerty as Aimwell; Carma Morrill as Mrs. Sullen; Sally MacKinnon as Dorinda; Arthur Fox as Squire Sullen; Wayne Scott as Scrub; John Murnane as Gibbet; Paul Donlon as Poigard; Donald Dunbar as Count Bellair; Martha Craven as Lady Bountiful; and Elizabeth Wermette as the Gypsy; produced at the Wellesley College Theatre.

By Jeff Stokes

There is nothing better for what ails you than a good, rollicking Restoration comedy like George Farquhar's 'The Beaux' Strategem.' Firmly founded on the immortal principle of hack, the Restoration comedy combines melodramatic intrigue and penetrating satire to produce an unforgettably funny theatrical experience. Spawned in an age when an aristocrat was still an aristocrat most of the time, a good number of these plays have outlived their era. The reason for this seeming immortality becomes apparent from the fact that the Wellesley College Theatre could update 'The Beaux' Strategem' from 1707 to 1810 with no loss of credibility; it seems that most of its social commentary still applied to the later period. The play might just as easily have been inserted into

the Victorian Age or, with some stretching of the imagination, into our own.

But whether you are a game-some young gallant on the prowl or not, the production of this old comedy at Wellesley last weekend would have been quite pleasantly therapeutic in one way or another. Just to watch the various characters go through their antics, if you like buffoonery or, if you cultivate thoughts of female beauty, to watch the lovely ladies strut about the stage flourishing their paper fans was worth the price of admission. Almost all the characters contributed something original to their parts, especially Wayne Scott who played the fearsome, but lamb-hearted, Scrub. One could dispute whether Farquhar intended the Gypsy to be as spastic as Elizabeth Wermette made her out to be, or whether Squire Sullen should stick out his tongue or not, but in a farce there is room for overplaying. Aimwell and Archer, played by Peter Haggerty and Richard Gebow, suffered no exaggeration at all, and the female conspirators, Mrs. Sullen and Dorinda, played by Carma Morrill and Sally MacKinnon, were equally plausible. Not that they were realistic; comedians never are. But

they took hold of their parts in such a manner that we were willing to believe them human for an evening. That is the genius of the comic playwright, which, by the way, amounts to nil without the coincident genius of the comic actor.

The happy result of this tendency to ham things up was that the characters escaped being perfect stereotypes, a common shortcoming of this kind of production. The stock characters — innkeeper, highwaymen, footmen, maids — by superimposing psychological peculiarities on their normally stereotyped roles, managed to obscure their triteness and improved rather than detracted from the performance.

If you happen to have seen Congreve's 'The Way of the World' at Dramashop, you know how hairy the plots of these comedies can get. The legal goulash of the Congreve play requires an intellectual effort to comprehend; but 'The Beaux' Strategem' by comparison is fairly easy to follow, because the plot material conforms more with one's basic instincts. Money and rank, though still important, take a back seat.

Service Corps visits Tech; Summer volunteers sought

Representatives of the Commonwealth Service Corps will be at MIT today, Wednesday, May 12, in Building 7, to recruit full-time volunteers for this summer. The Service Corps is a Massachusetts Domestic Peace Corps.

Volunteers are needed for the Corps' programs planned for all parts of the state. More than 400 college and high school students will be accepted into the program. Summer volunteers will work primarily with young people in recreation, remedial education, and social service programs. Other projects concern the mentally retarded and migrant farm laborers and their children.

The Service Corps is leading the state's war on poverty. Prospective Corpsmen may choose from 16 programs in which to participate. The program will run from July 6 through August 27. Pay will be \$160 for the eight weeks service. In many instances, room and board will also be provided.

Service Corps staff will be in room 7-106 from 9 am to noon and in room 7-108 from 1 pm to 5

pm. Anyone with questions should see them today; after today, Doris Reed (in room 50-105, X4885) will have information about the Service Corps.

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Movie Schedule

ASTOR—'In Harm's Way', 9:45, 12:35, 3:25, 6:10, 9:10. Sun. at 1:00, 3:50, 5:45, 7:50, 9:50.

BEACON HILL—'How to Murder your Wife', 3:30, 5:45, 8:00, 10:00. Sun. at 1:00, 3:05, 5:15, 7:30, 9:45.

BOSTON CINEMA—'The Greatest Story Ever Told', 8:00. Sun. at 7:30, mat. at 2:00.

BRATTLE—'Marcello Mastroianni in 'The Organizer'', 5:15, 7:30, 9:45, mat. Sat. at 3:00. Humphrey Bogart Cycle begins Sun. with 'High Sierra', Mon. 'San Quentin'; Tuesday 'The Oklahoma Kid'. Shows daily at 5:30, 7:30, 9:30, mat. Sun. at 3:00. 'Batman' with all shows Mon. and Tues.

CAPRI—'Zorba the Greek', 11:15, 1:50, 4:25, 7:00, 9:30.

CINEMA KENMORE SQUARE—'Let's Talk About Women', 2:00, 3:50, 5:45, 7:40, 9:45.

ESQUIRE—'Mary Poppins', 4:00, 7:00, 9:30.

CIRCLE—'Seance on a Wet Afternoon', 3:20, 9:30, 'Sylvia', 1:15, 7:45.

COMMUNITY PLAYHOUSE—'Becket', 7:45.

EXETER—'Thank Heaven for Small Favors', 3:35, 6:30, 9:30.

FINE ARTS—'Room at the Top', 7:00, 10:15; 'Mouse on the Moon', 5:00, 8:45.

FRESH POND—'Sylvia' and 'Go Go Maria', no times available.

GRAY—'The Sound of Music', 2:00, 8:30.

HARVARD SQUARE—'Strange Bedfellows', 2:00, 5:45, 9:35; 'Charade', 3:45 and 7:40.

LOEW'S ORPHEUM—'Major Dundee', 10, 2, 5:45, 9:30.

MIT LECTURE SERIES COMMITTEE—Friday (May 14) 26-400 at 7:00 and 9:30; Saturday (May 15) 26-100 at 6:00 and 9:00.

MUSIC HALL—'The Train', continuous performances.

NEW COOLIDGE CINEMA—'Mediterranean Holiday', no times available.

PARAMOUNT—'Young Cassidy', starts at 9:30 a.m.

PARIS—'Nobody Waved Goodbye', no times available.

PARK SQUARE CINEMA—'Marriage Italian Style', 2:10, 4:00, 5:50, 7:40, 9:30.

RKO KEITH'S MEMORIAL—'Mondo Pazzo', and 'Mission to Hell', 9:50, 1:10, 4:35, and 8:00.

SAXON—'My Fair Lady', 8:30. Sun. at 7:30, mat. at 2:00.

SYMPHONY CINEMA—'The Cool World', 1:30, 3:30, 5:30, 7:30, 9:30.

THEATRE COMPANY OF BOSTON—'Thunder Over Mexico', directed by Sergei Eisenstein, Wed. and Thurs. at 8:30. Friday and Sat. at 7:00 and 9:30.

THEATRE—'Suggestions', about this column are appreciated. Does anyone read it at any time? Write to Entertainment Staff Coolie, The Tech.

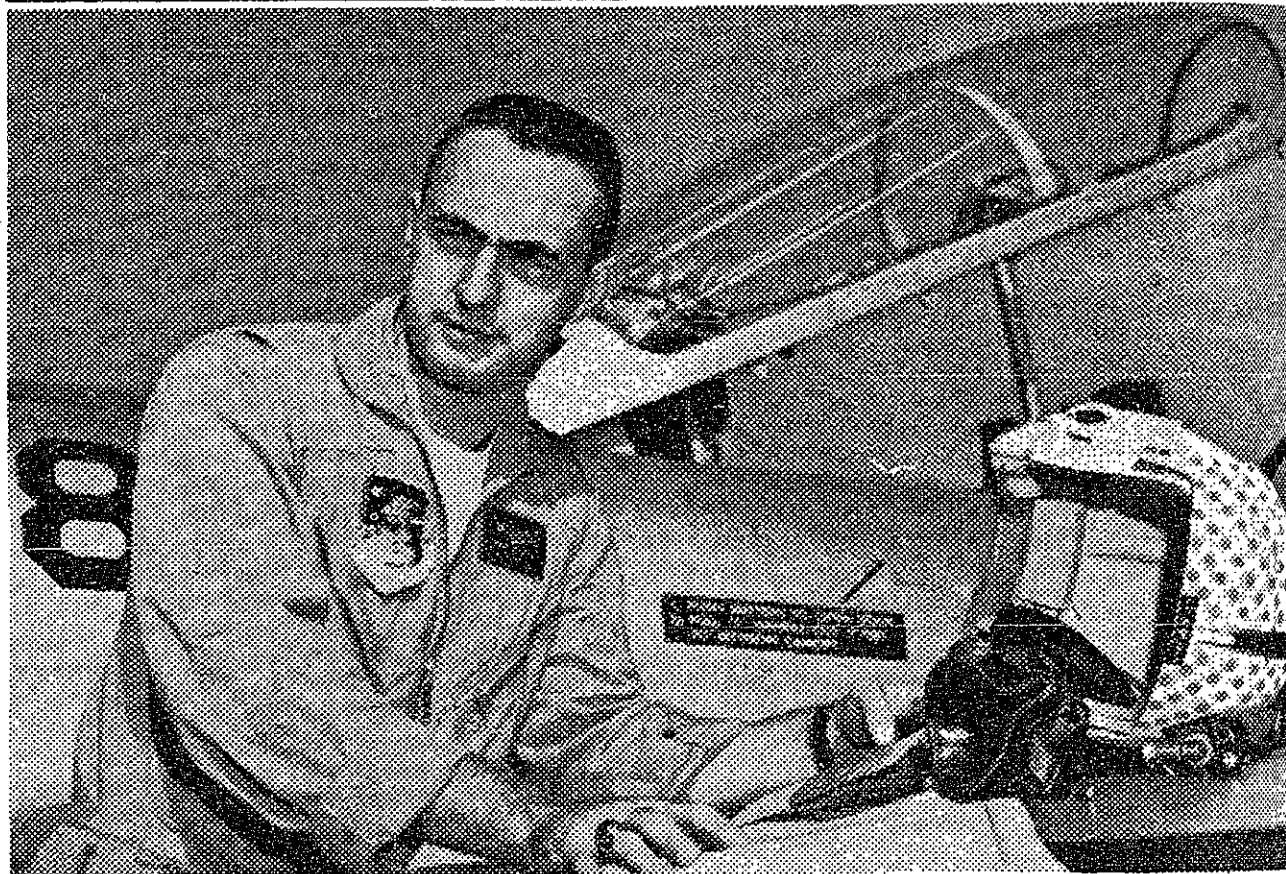
UPTOWN—'Tom Jones', 1:00, 5:30, 10:15. Sun. at 1:00, 5:30, 10:15.

'Toma la Douce', 10:30, 3:05, 7:45, Sun. at 3:05 and 7:45.

MUSIC HALL—'The Train', coming performances.

NEW COOLIDGE CINEMA—'Mediterranean Holiday', no times available.

WEST END CINEMA—'Banana Peel', 11:35, 1:35, 3:40, 5:40, 7:45, 9:45.



Air Force ROTC has now been updated to fit into today's busy undergraduate schedule.

Here are the facts about the new two-year AFROTC Program.

Who is eligible for two-year AFROTC? Any male undergraduate who still has two years remaining in college. It's an especially good break for junior college students who plan to complete their baccalaureate requirements at a four-year institution.

What's the curriculum like? It's been thoroughly revamped. You won't find pat answers and traditional ritualized solutions to problems. New instructional methods teach the student to arrive at his own conclusions, and to test them against those of his classmates and instructors. Symbolic of the change is the new title — Department of Aerospace Studies.

How will students for the new program be chosen? First, you must pass the Air Force Officer Qualifying Test and have a medical examination. Then you meet with the interview board of senior Air Force officers, who will decide whether you are to be selected to attend the Field Training Course. This will be held during the summer before your junior year. Its purpose is two-fold; to let the Air Force judge you and to let you judge the Air Force. Only after you are both satisfied will you be enrolled in the program. So you see, you have everything to gain and nothing to lose by applying now. But you must act fast—applications will be closing for next year's juniors. Forms are available from the Professor of Aerospace Studies, or from Headquarters Air Force ROTC, Maxwell AFB, Alabama.

As an AFROTC cadet, will I receive pay? Yes, you will be paid for the Field Training Course

which will amount to approximately \$120. During the school year, you will be paid \$40 a month and you will also get free uniforms.

Will I have a chance to fly while I am in AFROTC? Senior graduates are eligible for the Flying Instruction Program. This involves 36 hours of flight training and 35 hours of ground school. Successful completion earns you a civilian private pilot's license.

United States Air Force

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Studies of lower organisms To clarify learning process

(Continued from Page 5)

mitted only a few hours of visual exposure per day.

In the basic form of these experiments, one kitten walks about actively, while carrying a little harness connected with a cross-beam and shaft so that it can carry a second kitten, usually a littermate, through the same motions but in a passive manner. The first kitten develops normal visual and motor reflexes, while the second kitten whose visual experience is passive does not learn how to see: he has to be exposed subsequently to a normal environment in which he can move about actively with his eyes open before he can ever distinguish forms.

Animals trained in perception and memory

Similar fundamental processes of form perception and memory can be attacked by using animals whose eyes present to them largely non-overlapping views of the world. The goldfish is such an animal: it can be shown a pattern consisting of vertical lines to, say, the left eye, and taught that a change in that pattern, to oblique lines, means that he should swim forward to avoid a mild electric shock. Once this distinctive response is learned through that eye the animal is tested with the other eye to see whether the untrained eye has acquired the requisite information through passage of the learning trace across the animal's brain.

In these and similar experiments, Dr. David Ingle has been

able to show that certain subtle distinctions learned by one eye do not seem to transfer to the other eye, in the sense that they do not propel the fish forward to avoid the shock when the naive eye is tested. Yet something does leak across from eye to eye, even under these circumstances, since the animal's heartbeat is changed when the threatening signal appears in front of the untrained eye. In these and similar ways, study of organisms other than man can help further in elucidating the problems of perceptual learning.

In this rapid account, many aspects of work in the new Department of Psychology had to be omitted, but the reader will see how the three fields on which the department concentrates tend to overlap.

It will also be clear what some of the potential outcomes of these studies might be.

Psychology attempts to explain, predict, and, where possible, control behavior. Explanation is only beginning, prediction is difficult, and control still far off; but it may be closer than it seems. Lord Adrian said recently: "He who will first learn how to explain and control paranoia will have found a means for producing it." Such potential control over behavior presents a grave responsibility for those who can exercise it.

The new Psychology Department at MIT is committed to the principle that knowledge of human behavior should be used for constructive and not for destructive purposes.

Radiation research

Course VI investigates X-ray treatments

By John Blankenship

The High Voltage Research Laboratory of the Electrical Engineering Department has for several years been investigating the therapeutic applications of radiation to medicine. Working in coordination with the Lehey Clinic a group of Physicists, radiologists, and physicians treat the problem of tumors, both of a deep-seated and superficial nature.

Sponsored by the Division of Sponsored Research, the High Voltage Research Laboratory is operating along two roads of achievement. First, they are most directly interested in the coupling of radiation to tumor problems. Secondly, they are becoming more and more concerned with the evaluation of better techniques.

X-rays react with tissue

The essential workhorse in the treatment of deep-seated tumor problems is a two Mev X-ray machine. X-rays produced by the collision of electrons with a gold target are focused on the region of the tumor. Penetration into the body is regulated by adjusting the energy imparted to the original electrons. Interestingly enough, the destruction of tumors is not effected by the X-rays themselves. In fact, the X-rays produce electrons in interreaction with body tissue, and it is these electrons that are actually damaging to the tumors.

Briefly, tumor destruction is accomplished by ion excitation and the dissolution of chemical bonds.

The electrons are, of course, damaging to normal body tissue as well, but it is hoped that particular doses of radiation will allow the normal tissue to recover. It is the responsibility of the radiologist to determine the required dose of radiation, so that tumor damage can be appreciable while keeping side effects within prescribed limits.

Van der Graff accelerator used

A four Mev Van der Graff electron accelerator is used in the treatment of superficial tumors and skin problems. In this case, however, the electrons produced by the Van de Graf are sent directly inside the body. The treatment of deep-seated tumors necessitates the deeper penetration of X-rays.

Consequently, electrons are converted into X-rays, which are subsequently converted back into electrons inside the body. On the other hand, superficial tumors are generally not more than three-eighths of an inch deep, and electrons may be used directly.

New techniques studied

The research staff is continually seeking new and better techniques in the treatment of tumor problems. They are essentially techniques that are centered around an interest that is therapeutic rather than diagnostic. That is to say, -rays are primarily used to

do their work inside the body rather than on an exposure plate.

For the most part, techniques are being developed here that are being used in other parts of the world. Metal plates are being used to protect vulnerable local structures from radiation. Oxygen and other chemical agents are being used to enhance the effects of radiation on tumors. Rotational therapy is being used, a technique which focuses radiation on a tumor, which is slowly rotating on an axis of rotation.

X-ray photographs are being used for the alignment of protective metal plates. In general, the techniques used at the High Voltage Research Laboratory are firsts in world therapeutic medicine. The extent to which they are employing electron therapy in the superficial tumors and skin problems is much more than anywhere else in the world.

"People are our most important product"

Needless to say, the most important problems that they deal in are human and not scientific. Their esoteric technological concerns never overshadow the fact that they are working with common human lives. Presently, as many as fifty patients are treated in one day, while as many as five hundred different patients are treated in a single year.

As Mr. Kenneth Wright, a research staff member remarked, the present program will probably not remain at MIT if it becomes a mere routine. In order to maintain the present MIT policy of progress and development, the High Voltage Research Laboratory must develop new techniques as well as handle the routine operations of any clinic. Dr. John Trump, director of the group, has accordingly aimed his efforts in both directions.

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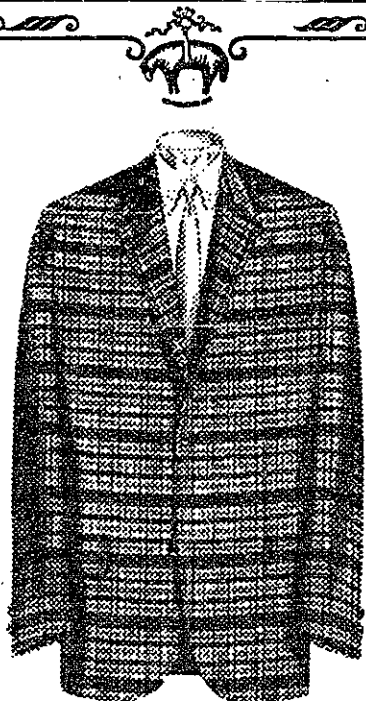
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	Cash value	275.10	333.25	408.30	505.00	628.95	808.50
	Sum of Dividends	35.70	38.45	45.30	59.20	76.85	91.20
	Net cost	21.70	21.30	19.90	18.30	31.45	66.30
Average annual cost per \$5,000		4.34	4.26	3.98	3.66	6.29	13.20
At end of 10 years	Premiums paid	665.00	786.00	947.00	1,165.00	1,474.50	1,932.00
	Cash value	585.75	707.90	862.00	1,054.10	1,307.70	1,679.50
	Sum of Dividends	113.05	129.20	159.20	203.40	247.90	304.50
	Return over cost	33.80	51.10	74.20	92.50	81.10	52.50
Average annual return over cost per \$5,000		3.38	5.11	7.42	9.25	8.11	5.20
At end of 20 years	Premiums paid	1,330.00	1,572.00	1,894.00	2,330.00	2,949.00	3,864.00
	Cash value	1,322.50	1,575.15	1,883.55	2,276.05	2,822.35	3,699.50
	Sum of Dividends	399.05	478.60	577.60	699.60	856.90	1,074.20
	Return over cost	391.55	481.75	567.15	645.65	730.25	909.50
Average annual return over cost per \$5,000		19.58	24.09	28.36	32.28	36.51	45.50
At age 65	Premiums paid	2,992.50	3,144.00	3,314.50	3,495.00	3,686.25	3,864.00
	Cash value	3,699.50	3,699.50	3,699.50	3,699.50	3,699.50	3,699.50
	Sum of Dividends	2,087.60	1,906.95	1,720.75	1,521.95	1,305.20	1,074.20
	Return over cost	2,794.60	2,462.45	2,105.75	1,726.45	1,318.45	909.50
Average annual return over cost per \$5,000		62.10	61.56	60.16	57.55	52.74	45.50

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Two remain in IM bridge AEPi, Math Dept. in final

By Bob Lurie

The intramural team-of-four bridge tournament, sponsored by the MIT bridge club, has reduced its field from 28 to two finalists, Alpha Epsilon Pi and Math Department, battling for the championship. These two are the only teams surviving league play and the first two rounds of a knockout playoff.

Both teams after impressive quarterfinal victories had close, come from behind triumphs in the semifinals. Math Department rallied from eight IMPs down to win by nineteen IMPs, upsetting pre-tournament favorite Grad Management Society. Alpha Epsilon Pi overcame a five IMP halftime deficit to squeeze through with a one IMP win against Burton C.

A difference of one IMP represents one extra trick on any of the twenty-four hands. It probably resulted from some expert reasoning by Tom Brylawski of AEPi on this hand.

Four spades was the final contract at both tables and the diamond king the opening lead each time. The Burton declarer won the opening lead and successfully finessed the heart king. Then he lost the spade finesse, and the defense cashed a diamond, mak-

ing five. Torn, on the other hand, realized that the only way to go

North		West	
♠ J 10 x x		♠ x x x	
♥ A J 10 x x x		♥ x x	
♦ x x		♦ x x	
♣ x		♣ x	
East		South	
♠ K		♠ A Q x x x	
♥ K x		♥ Q x x	
♦ K Q x x		♦ A x x x	
♣ x x x x x x		♣ A	

down was if a heart was ruffed by the defense. Otherwise he was willing to lose one spade, heart and diamond. Since he lacked a "safe" entry to take the spade finesse, he cashed the spade ace, and dropped the offside king. He drew the rest of the trumps, successfully finessed the heart king, and claimed the balance, making six.

Rugbers top Williams; Season record 4 - 3

By Bob Sultan

The MIT Rugby A Team smashed Williams College 14-0 in their game on Saturday, May 7. The victory gives the Tech ruggers a 4-3 winning season with one game remaining. In the first half Bob Donaldson scored two tries. Alan Newell followed up with a 2 point conversion, very similar to an extra point kick in football, bringing the score up to 8-0. In the second half Jim Postula '65 scored and Donaldson made his third try.

Captain Tom Van Tienhoven '66 attributed the shutout victory to strong playing in the scrums, or scrummages, particularly on the part of Tom Sanford, and in the lineouts in which the teams try to gain possession of the ball. Fierce playing on the part of the forwards and plenty of team spirit were evident in the victory.

Captain Van Tienhoven commented that the final game against Harvard Business School will be a tough one but the Tech team's increasing strength gives then a good chance for victory.

Golfers lose to Harvard; Lubitz fires one under par

By Jack Seaquist

Despite a one under par 70 by MIT's senior sensation, Pete Lubitz '65, the MIT golf team suffered a 5-2 loss at the hands of a strong Harvard team at the Oakley Country Club in Watertown, Monday, May 3.

Also winning for the Techmen was Dick Shoemaker '65 who had a phenomenal two under par 33 in the back nine to come back and win in an extra nineteenth hole playoff. After being down by three after the first nine, he

eagled the tenth, a par five 466 yard hole, with a drive, four wood and a twenty foot putt to win the hole despite his opponent's birdie. Still down one going into the 18th, Shoemaker birdied to even the match, and then birdied the 19th for the win.

For Lubitz, it was consistent shooting that enabled him to breeze through his match six and four over Jim Campen, winner of the autumn Greater Boston Tournament. Lubitz shot three birdies while bogging only two, the fourth and seventh.

Intramural softball playoffs begin; East Campus A, Phi Delt's favored

When the call "Batter Up" echoed over the crowded athletic fields five weeks ago, the IM softball season was officially underway. Sporting a record number of 58 teams, the season promised to be exciting. Regular season play is now completed, and all the suspense has mounted for the tournaments beginning this Saturday.

An innovation this year by Stuart Vidocler, the IM softball manager, was the organization of both major and minor divisions. With a separate tournament for each division, the outlook is good for more equally matched playoffs. Any team winning more than half its games will be vying for the championship, playoff games starting this weekend.

Leading the major league teams struggling for the top position is East Campus A, the winner for the past three years, with an impressive record of five wins against no losses. Strong competition is expected from Phi Delta Theta, Nuclear Engineering, and Graduate Management Society, also all sporting admirable 5-0 records. Eleven other teams round out the contestants. It is rumored that the day of the final game may include a double-header.

Graduate House titlist in IM sailing regatta

The Graduate House sailors bested four other teams Sunday, May 2, on the Charles River to take the 1964-65 intramural sailing championship. The conditions were excellent, with a clear sky and a brisk 15-20 knot wind out of the southeast.

The six finalists sailed a very clean regatta, as compared to the fall qualifying contest. Only 3 protests were lodged in the ten races and these were settled quickly. The races actually had to be postponed from the previous weekend as a result of unforeseen conflicts with two intercollegiate regattas.

The Grad House team scored 197½ points to beat out second place Senior House by 21 points. Sigma Chi was third with 168½ points, Grad Management fourth with 142½, and East Campus fifth with 137. Phi Gamma Delta, champion for the past three years, did not compete.

On Deck

Today, Wednesday, May 12
Lacrosse (V)—Wesleyan, Home, 3 pm
Tennis (V)—Stonehill, Home, 4 pm
Baseball (F)—Thayer Academy, Away, 4 pm
Lacrosse (F)—Tabor Academy, Away, 3 pm

Thursday, May 13
Baseball (V)—BU Home, 3 pm
Golf (F)—Belmont Hill, Home, 12:30 pm
Golf (V)—New England at Groton (through Friday)

Friday, May 14
Tennis (V)—New England at Harvard (through Saturday)

Saturday, May 15
Baseball (F)—Emerson, Home, 2 pm
Lacrosse (F)—Cambridge School, Home, 2 pm
Tennis (F)—Portsmouth Priory, Home, 2 pm

Baseball (V)—Trinity, Away, 2:30 pm
Track (V)—Easterns at WPI
Track (F)—Easterns at WPI
Lacrosse (V)—Trinity, Away, 2 pm
Golf (F)—Phillips Exeter, Away, 1 pm
Heavy Crew—EARC Championships at Worcester
Light Crew—EARC Championships at Worcester
Sailing (V)—NEISA Monotype Finals, Home (through Sunday)

Sunday, May 16
Women's Sailing—Emerson Invitational
Cricket—Springfield, Home

Tuesday, May 18
Baseball (V)—Northeastern, Home, 4 pm
Tennis (V)—Brown, Home, 3 pm
Tennis (F)—Brown, Home, 3 pm
Golf (V)—Massachusetts, Lowell, Away, 1:30 pm

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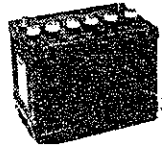
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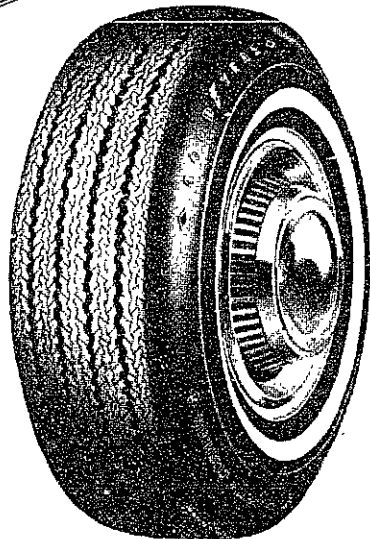
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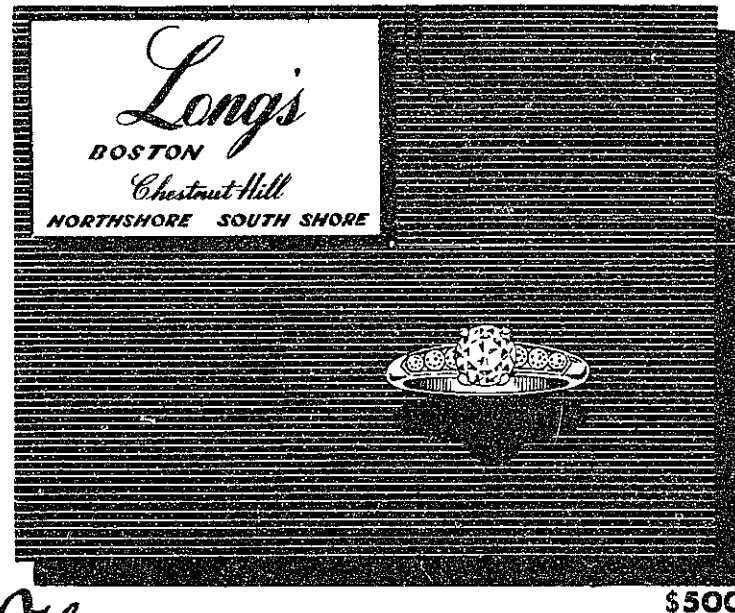
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Columbia tops trackmen Dorschner, Carrier double

By Dave Chanoux

Columbia defeated MIT 100-49 in a dual meet held last Saturday, May 8 in New York. The home team won eleven of the seventeen events, in running away with the win. Plotkin was the only double winner for Columbia. He led them to a sweep of the 100 yard dash by winning with a time of 9.9. He followed by winning the 220 yard dash, and running second on the winning mile relay team.

Terry Dorschner '65 and Dave Carrier '65 were double winners for MIT. Dorschner won the 440 yard low hurdles in 55.7 and the 120 yard high hurdles in 15.3. Carrier won the triple jump with a 42 foot 11 inch leap. Track captain Rex Ross '66 was second, just four inches behind. Carrier also won the broad jump with

Ross again second. The distance was 21 feet 6 inches.

The only other winner for Tech was Bob Wesson '66. He took first in the two mile run with F ax of Columbia second and Mike Oliver '65 third. Columbia swept the first three places in six events to run up their score. They took the shot put, pole vault, javelin and discus in the field events and added sweeps in the 100 yard dash and the 880 yard run to collect 54 points, enough for the win.

In the Greater Boston meet held last week at Harvard, MIT managed four third places. Sumner Brown '66 finished third in the mile and Bob Dunlap '67 third in the 440. Dave Carrier added two third place finishes in the triple jump and the broad jump. In both of these events, Rex Ross was fourth. Harvard won the meet going away, and MIT finished fifth.

IM table tennis enters final week; Chinese Students Club undefeated

By Bob Lurie

The intramural table tennis season enters its final week with Chinese Students Club A the only remaining unbeaten team in the triple elimination tournament. They defeated Juventus, in a mild upset, handing the latter its only defeat to date.

All other remaining teams have two losses. In the quarterfinal round Tau Epsilon Phi A defeated Alpha Epsilon Pi A, and Baker A knocked off Burton G, the surprise team of the playoffs. The

Tau Epsilon Phi A edged Baker A and will battle Burton A. The victor of the Burton A contest will then oppose Baker Stigas to determine which team moves up to the First Losers bracket against Juventus. From there the outcome is unpredictable. It takes two more defeats to eliminate Juventus. Finally, the winner against Juventus meets Chinese Students Club A whom it has to defeat three times in order to win the playoffs.

Intramural Results

Softball Standings Major Leagues

LEAGUE I

East Campus A	5-0
AEPi	4-1
Westgate	3-2
TDC A	2-3
Burton B	1-4
Phi Gamma Delta	0-5

LEAGUE II

SAM	3-1
Burton A	3-1
SPE A	3-1
Senior House A	1-3
Sigma Chi	0-4

LEAGUE III

Phi Delta Theta	5-0
Grad House A	4-1
LCA	3-2
Grad Economics	2-3
Baker Ballbusters	1-4
ZBT A	0-5

LEAGUE IV

Grad Management	5-0
Phi Sigma Kappa	4-1
Baker A	3-2
Delta Upsilon	2-3
Alpha Tau Omega	1-4
Top A	0-5

LEAGUE V

Nuclear Eng.	5-0
NRSA A	3-2

Theta Chi	2-2
Grad Dining	2-2
SAE	1-4
Phi Kappa Theta	1-4

Sailing Results

Grad House	197 1/2
Senior House	176 1/2
Sigma Chi	168 1/2
Grad Management	142 1/2
East Campus	137

Squash Standings

LEAGUE I

1. Baker House A	5-0
2. Senior House	5-1
3. Phi Sigma Kappa	4-2

LEAGUE II

1. G.E.A.	6-0
2. Theta Chi	5-1

LEAGUE III

1. Graduate House A	6-0
2. Zeta Beta Tau A	5-1

LEAGUE IV

1. Graduate House B	5-0
2. Baker House D	4-1

LEAGUE V

1. Graduate House C	5-0
2. Theta Xi	3-2
2. Baker House E	3-2

LEAGUE VI

1. Project M.A.C.	5-0
2. East Campus B	3-2
2. Sigma Chi	3-2
2. Baker House F	3-2

Senior House takes rifle championship

The Senior House A team ran away with the IM rifle championship last Sunday, May 9 as Dave Crawford, Alan Hayes, Steve Williams and Gary Schwartz fired scores of 188, 187, 185 and 184 to give their team a 744 out of a possible 800 on the 50 foot international targets. The four men placed respectively third, fourth, fifth and sixth as individuals in the tournament while AEPi's John Schwartz and Baker's James

Funderberg took the top honors with scores of 193 and 189.

Baker A and Burton A finished second and third with a 720 and a 696. Theta Delta Chi brought in top fraternity position with a 676 that placed them fourth. High temperatures of the evening made shooting difficult, and only the two top teams were able to raise their scores above those fired in the opening round.

A complete list of all scores in

the tournament will be sent out to all shooters in about two weeks. The top eight teams and their scores are given below:

1 Senior A	744
2 Baker A	720
3 Burton A	696
4 Theta Delta Chi	676
5 Burton E	664
6 Grad Management	653
7 AEPi	637
8 Burton H	616

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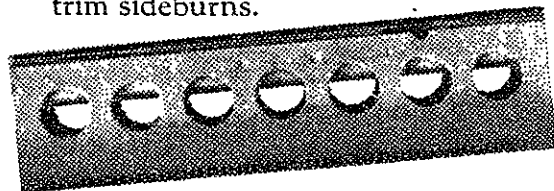


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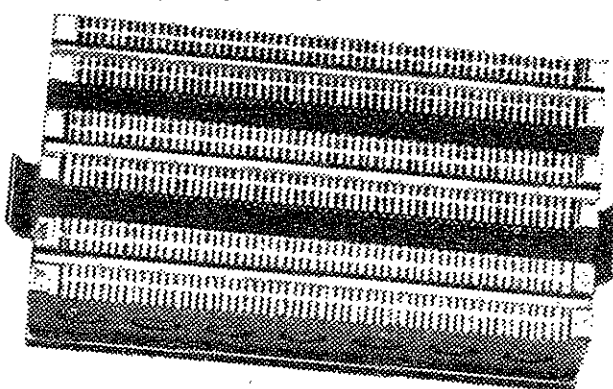
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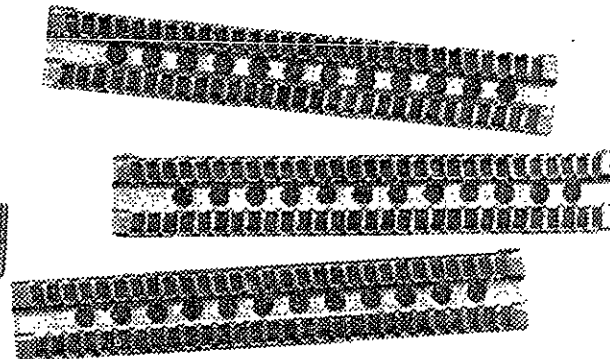
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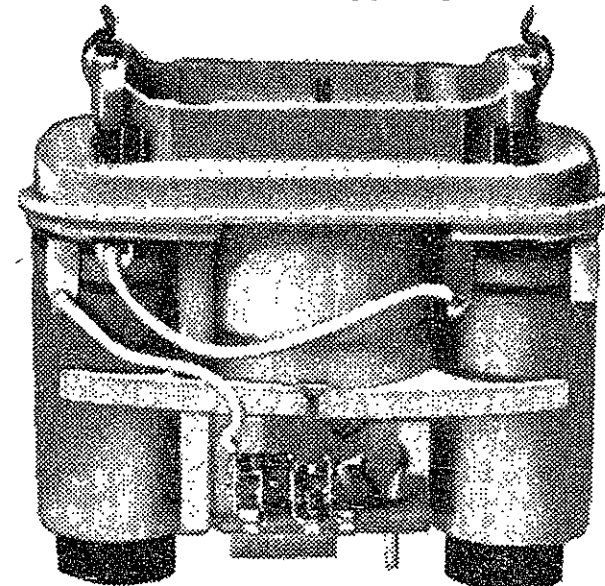
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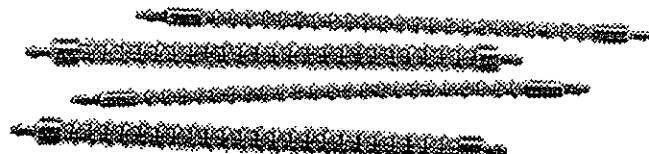
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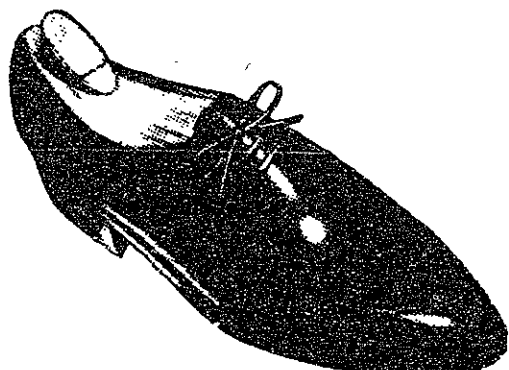


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Page 15

Baseball team whitewashed Coast Guard sails to title; MIT, Tufts tie for third

Women sailors 1st in New England regatta

By Jerrold Sabath

MIT's varsity baseball team was held scoreless in three games last week, in losing one to Harvard and a doubleheader to Coast Guard Academy.

The traditional Harvard-MIT baseball game on May 5 was a carbon copy of many past encounters; the Harvard nine walked off with an 11-0 victory. Rick Gander '65, outstanding in his previous two outings, was rocked for nine runs in the first four innings. The Tech offense managed to scrape up nine hits but was a picture of frustration when it came to getting runners across. On Saturday, May 8, the Engin-

eers met Coast Guard in a twin bill. Strong pitching by Gander and Rick Papenhausen '67, would normally have given Tech a pair of victories, but a combination of leaky MIT defense and superior hurling by the opposition reversed that possibility. Rick Gander threw a four-hitter but was the victim of two unearned runs in the third inning and lost 2-0. In game two, the decisive run was earned but was followed by two more unearned runs. Although he pitched a five-hitter, Papenhausen lost 3-0.

Whereas one week ago Tech was gunning to break the .500 mark, now its record has slipped to 5-9. As the season nears the end, Tech faces Boston University tomorrow, May 13, and then travels to Trinity for a game May 15.

The Tech sailing squad fared poorly in regattas sailed Saturday and Sunday, May 8 and 9. At the New England Dinghy Championships the Engineers took a third, tied with Tufts. Clearly the best team at the regatta, Coast Guard won easily with 269 points, followed by Rhode Island's 238 points and MIT sharing 227 with Tufts University.

The event was sailed in International Twelve Dinghys at the Coast Guard Academy on the Thames River. Coast Guard marched off to an early lead and held it for the rest of the regatta. Sailing on a completely unpredictable course, Tech added poor boat speed to bad breaks and a few bad decisions to set up the loss. This defeat kills Tech's chance to go the North American Championships and the Wood Trophy, which will be sailed in Madison, Wisconsin in the middle of June. Only the first two teams from the dinghy championships are allowed to attend.

The races were sailed in light to moderate winds which put

Tech immediately at a disadvantage with heavy crews and skip-pers. On the light and sensitive International Twelves, weight is a deadly handicap.

Sailing for the Engineers in A division was Terry Cronburg '66 who, with Joe Smullin '66 as crew, averaged 8.3 out of a possible 11 points per race. Sailing in B division was Don Schwanz '66 with Ed Shaw '65 as crew. Don and Ed averaged 7.3 out of the possible 11 points.

Olympic yachting films to be shown at Kresge

The first showing of the 1964 Olympic Yachting movies in Massachusetts — also one of the nation's first viewings — will be in MIT's Kresge Auditorium May 14 at 8:00 pm. Tech sailing master, Jack Wood, has arranged the show which, in addition to the movies, will feature John "Don" McNamara and his crew, Frank Scully, who sailed their 5.5 contender to a bronze medal in Japan in 1964. They will describe their part in the races in Sagami Bay where the United States team carried off a medal in each of the five classes.

The admission charge of \$1.50 per person will help finance U.S. Olympic sailing teams. Reservations may be made by sending check to W. C. Wood, c/o Kresge Auditorium, MIT, Cambridge 39, Mass., or by telephoning Kresge Auditorium, UN 4-6900, extension 2901. Tickets will be held in your name at the box office.

Tennis team tops Brandeis 9-0; Petrick, Chandler win decisively

As the varsity tennis season draws to a close, the netmen continue to show marked improvement. This past week they romped over Brandeis, dropped a closely contested match to Trinity, and were outclassed by Dartmouth.

On May 5, Bill Patrick led the way for a 9-0 shutout of Brandeis by winning the first singles match 6-4, 6-2. Paul Ruby defeated his opponent 7-5, 6-4. Dave Chandler demolished the third Brandeis man 6-0, 6-2, but Eric Coe had to go three sets to defeat a relatively strong player 7-5, 1-6, 6-2. John St. Peter and Bob Wolf completed the singles sweep by winning 6-4, 6-2; and 6-0, 11-9 respectively.

In doubles competition Petrick-Chandler won 6-2, 9-7. George

Kraus teamed with Ruby for an easy 6-4, 6-1 victory, and Doug Patz got together with St. Peter to end the day's festivities by 6-4, 3-6, 6-2.

The week's second match did not end so pleasantly for the Techmen, as we were defeated 6-3 by a talented Trinity squad. Paul Ruby and Eric Coe won early singles matches to even the score at two matches apiece. St. Peter lost a tough one and that ended the Tech rally. From then on it was a routine matter of Trinity holding on gamely to their advantage.

On May 6, the Dartmouth tennis team blanked our netters 9-0 in a match that was decided early. There is no disgrace to lose to your superiors, and Tech was clearly outclassed. This season is all but over, and it has served well by helping the younger players to improve rapidly.

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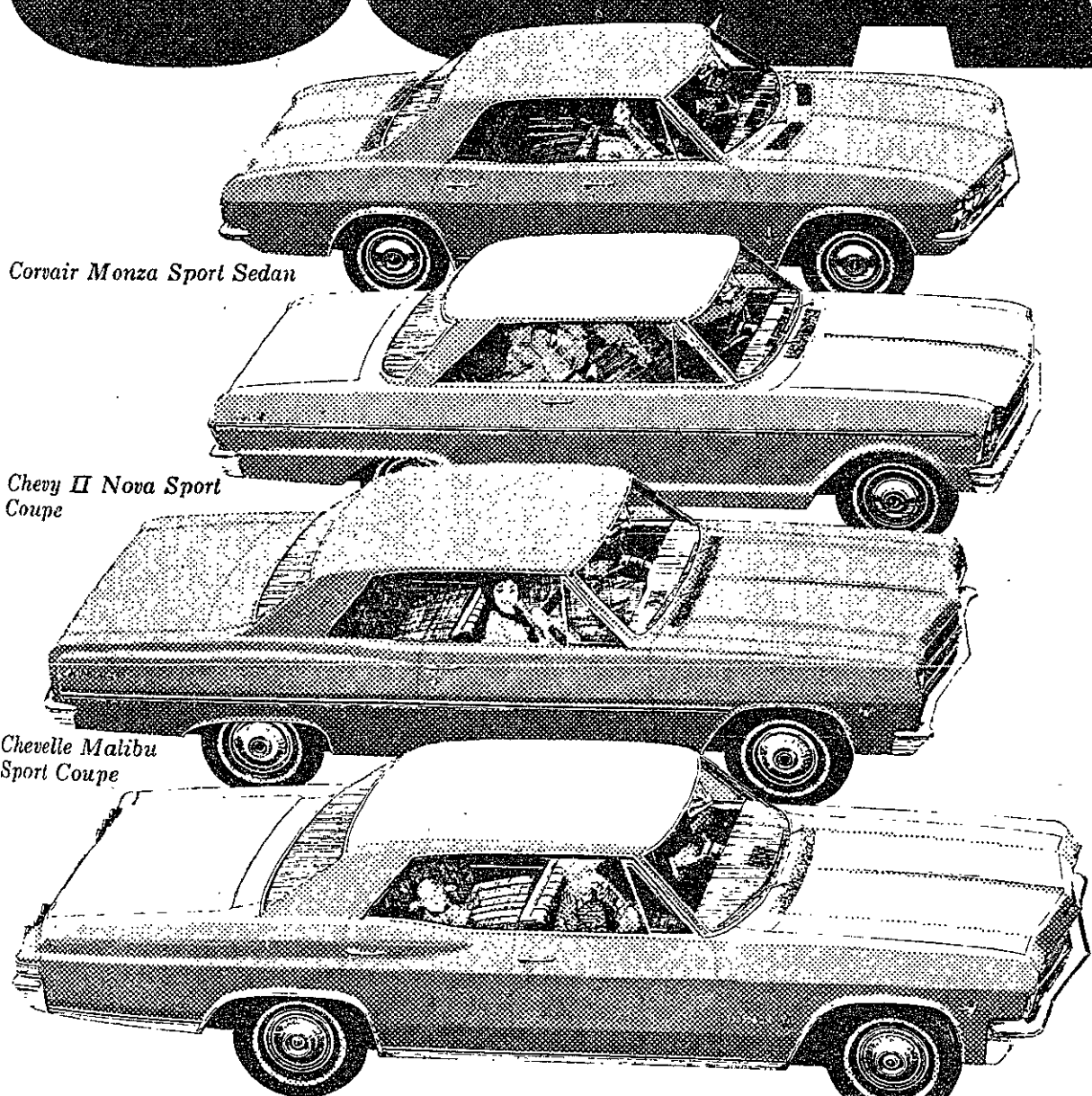
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MIT	000	000	0	0	3	5
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Coast Guard	101	010	x	3	5	1

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Varsity lights victorious

By Mark Wallace

Two MIT lightweight boats came back from Annapolis, Maryland, Saturday, May 8, with decisive wins over Navy and Penn. Both the varsity and JV encounters were rowed over the Henley distance of one and five sixteenths miles.

In the varsity event, MIT jumped off the floating start at 43, and quickly settled to a 33-34 range for the body of the race. Penn, following special instructions opened at 37 and tried to hold it for the full distance.

MIT pulls away

Penn drew out to a four seat lead over MIT, which, in turn, had two seats on Navy. But Penn began to tire, and though they held their stroke, the Tech boat gained steadily, and opened up a four seat lead with a mile to go.

MIT opened water on Penn at the 1/2-mile mark, and eased up over 40 in the sprint, winning in 6:54.6. The Quakers held on for second over a fast-closing Navy boat, finishing in 7:02.3 to the Midshipmen's 7:03.6.

Two 3rd boats race

An odd feature of the JV race was that both MIT and Navy were represented by their 3rd boats, each of which had been beating their JV teammates in practice during the week. Tech started at 40, dropped to a 33-34 range and steadily pulled away from Navy and Penn who were oversteering them.

At the 1/2-mile mark, Tech had opened water on Navy, and as they went up to 36 and 38 in the sprint, they won easily in 6:56.2 to Navy's 7:05.6. Penn finished back in 7:10.2.

This Saturday, May 15, the lightweight travel with the heavyweights to Worcester, Mass., for the EARC Championships where both crews will get another crack at Harvard and Cornell.

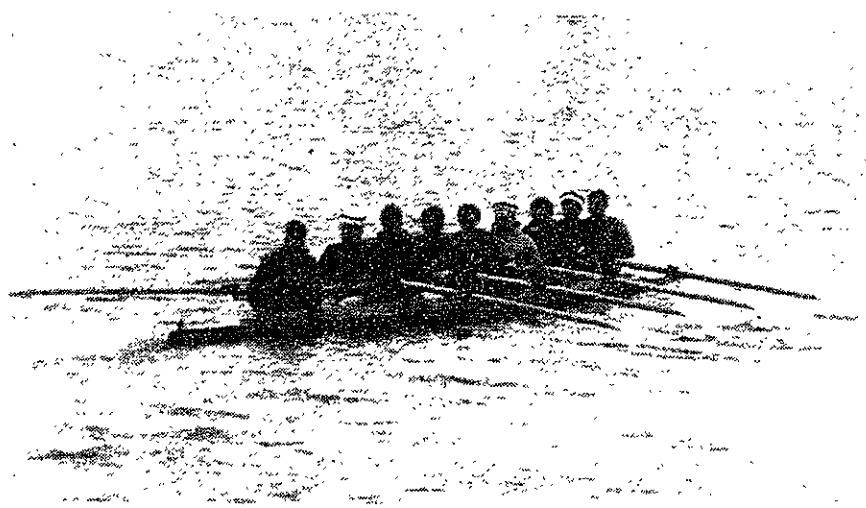


Photo by Rogin Buxton

The varsity lights head out on the Severn River to their race with Navy and Penn May 8. In the Tech boat from left are: Ray Pfau, Mike Kruger, Dave Bitterman, Bert Blewett, Allen White, John Proctor, Wayne Haase, Larry Taggart and Steve Schutz. The lights won the race in 6:54.6.

MIT BOATINGS

Varsity
Bow—Steve Schutz '65
2—Larry Taggart '67
3—Wayne Haase '65
4—John Proctor '65
5—Allen White '66
6—Bert Blewett '66
7—Dave Bitterman '65
Stroke—Mike Kruger '67
Cox—Ray Pfau '66

JUNIOR VARSITY

Bow—Bill Moss '66
2—Fred Furtek '66
3—Dick Arnold '65
4—Tom Frazel '66
5—Bob Vesprini '67
6—Bill Kampe '66
7—Dick Koehler '67
Stroke—Dick Coulter '67
Cox—Doug McGrath '67

Defeat UNH 5-4

by Neal Gilman

The MIT varsity lacrosse team extended its undefeated streak to six games last Thursday, May 6, by edging the University of New Hampshire 5-4, in an exciting contest. This victory marked the first time in five years that the team has had a winning record, the previous time being in 1960 when the New England championship team went 11-1. With a 6-1 record against New England competition, MIT has a good possibility of winning the New England title.

Penalties against MIT

In the first two minutes of the UNH game, the Engineers suffered two one minute penalties, giving the New Hampshire team a decisive two man advantage. But the MIT defense, managed to hold solid, preventing the New Hampshire team from scoring. Seconds later Dick Nygren '66 opened the scoring when he scooped a ground ball and fired it past the New Hampshire All-American goalie, Bryan Poole.

Co-Captain Ron Mandle '65, was the next to score on an assist by

JV's by 3 lengths

Heavies romp to easy win of Cochrane Cup

By Chuck Hottinger

The MIT heavyweight crew easily rowed away from all contenders to win the Cochrane Cup last Saturday, May 8, on the Charles. Recouping from their lone loss to Harvard last week, the Engineers handily defeated Dartmouth and Wisconsin, competitors for the Cup, besides guest crews Syracuse and Boston University. The Tech Jayvees, in a hotly contested race, also won over BU, Dartmouth, and Syracuse.

Tech takes early lead

The Varsity Engineers took a short start at 39 strokes per minute over the windswept 2,000 meter course. Taking an early lead over second place BU, Tech quickly lowered to a 33 count. Moving ahead in the strong headwind, the Engineers left Dart-

mouth, BU, and Syracuse to vie for second, while Wisconsin fell to last place. MIT had increased its lead to 1 1/2 lengths over BU after 1/2 mile, while Syracuse and Dartmouth, tied for third, left Wisconsin in last place.

Rowing at 31, Tech continued to move away from the second place Terriers. With 1/2 a mile remaining, Wisconsin, last year's winner of the Cup, pulled ahead of Syracuse, into competition for second place with BU and Dartmouth. Entering the final sprint, the Engineers raised the stroke to 38, crossing the finish three lengths ahead of BU, Dartmouth, and Wisconsin.

Boston University 2nd

Second place honors were narrowly won by the Terriers, leading Wisconsin by 1/2 second, and finishing .6 seconds ahead of Dartmouth. Syracuse finished last, 1 1/2 lengths down on the second place contenders. Final time for MIT was 6:53.7, 11 seconds ahead of BU, Wisconsin, and Dartmouth, and 16 seconds ahead of last place Syracuse.

The Tech Jayvees also faced a strong headwind in their race over the 2,000 meter course. Taking no start through the rough water on the Basin, the Engineers came off the line at 33, behind first place BU. Quickly catching the Terriers, the MIT second boat led BU by 4 seats at the Harvard Bridge. At that point, Syracuse was a close third, leading last place Dartmouth by 1 length.

JV's maintain lead

As the boats entered calmer water with 1/4 of a mile to go, Tech maintained its lead with a stroke of 32, while BU followed in second place at 34. Entering the final sprint, the Engineers raised the count to 38 and moved away from the Terriers who stayed at 32. Final time for MIT was 7:12.9, three lengths ahead of BU with a 7:19.2. Syracuse finished a close third, while Dartmouth finished last, seven lengths behind Tech.

Varsity Boatings:
Bow: Tom Rice '66
2: Joehn Schilling '65 (Capt.)
3: A. Blanchard '65
4: F. Eberle '66
5: Dave Waltz '65
6: Jim Falender '65
7: Bob Menzies '65
Stroke: Keith Stolzenbach '66
Cox: Jesse Lipson '65
Final Times: MIT: 6:53.7; BU: 7:04.5; Wisconsin: 7:05.5; Dartmouth: 7:06.0; Syracuse: 7:10.5.

Junior Varsity Boatings:
Bow: Peter Waltz '67
2: Samuel Drake '65
3: William Nelson '66
4: Tom Larsen '67
5: Ray Fisher '65
6: Gregg Heacock '67
7: A. K. Phillips '66
Stroke: Dave Penny '66
Cox: Dennis Overbye '66
Final times: MIT: 7:12.9; BU: 7:19.2; Syracuse: 7:20.2; Dartmouth: 7:39.5.

Frosh sports

Lights triumph over Navy, Penn

Lightweight crew

The freshmen lightweight completed the sweep of the Callow Cup races last Saturday, May 8 by edging out Navy and the University of Pennsylvania, at Annapolis. In a very close race, Tech beat Navy by just 18 inches with a time of 7:03.2 over the 1 and 5/16 mile course.

The second boat finished third to Cornell and Dartmouth by 2 1/2 and 2 lengths respectively in an invitational race at Hanover on Saturday.

Heavyweight crew

All three of the freshmen heavyweight crew boats competed in the Cochrane Cup races on Saturday. The first freshmen boat finished third behind Dartmouth and Boston University in a race that went down to the wire. The second boat was more successful, by winning its race in the respectable time of 7:24.5. The third boat, however, also met defeat by Dartmouth and BU.

Track

A defeat in the final event, the mile relay, spelled defeat for the frosh track team against Columbia last Saturday. Adebayo Ajadi led MIT in the 77-70 loss with firsts in both the broad jump and triple jump. His 44' 3" in the triple jump was one foot longer than the MIT varsity record in that event. Steve Silverstein took the 100 yd. dash in 10.7 sec. and Steve Sydorik won the pole vault at 13 ft. Weight man Larry Dehner picked up 7 points with a second in the shot put and the hammer throw and a third in the discus.

Lacrosse

The frosh lacrosse squad split its two games last week, defeating Tufts 6-2 on Wednesday and losing to Lawrence Academy 11-4 on Saturday. In the Tufts game, a goal by Tom Chin broke a 2-2 tie in the first half, and gave



Photo by William Ingram

Frosh midfielder Tommy Chen approaches the Tufts goal in the third period of the game last Wednesday. Vying for position are teammates Bob Wyatt, Julie Gutman, and Bob Kendrick. The MIT fosh won, 6-2.

MIT the lead for good. Other Tech goals were scored by Maynard Branden, Bob Wyatt, Julie Gutman, Jim Clark, Jim Lewis. Saturday Lawrence scored 5 goals in the first five minutes of the game to insure victory. MIT otherwise played well with Gutman scoring 3 goals and Lewis getting the fourth.

Tennis

The tennis team likewise split its two matches by earning a 7-2 win against the Trinity frosh May 8 after an 8-1 defeat by Phillips Andover on May 5. Against Phillips, fourth man Bob Metcalf earned Tech's only point in the singles.

The Trinity match saw Dennis Carlston, Steve Deneroff, Carl Weissgerber, George Shapiro, and Ty Chen win individual matches with MIT also taking the second and third doubles.

Baseball

A 10-1 victory over Newton Junior College last Saturday brought the freshmen baseball team out

of its slump which included a 12-1 defeat by Harvard last Wednesday. Jim Reid went the distance on the mound against Newton allowing just 7 hits and 3 walks while striking out 3. Bob Horn had two key hits in MIT's 7 run second inning. Harvard scored 10 runs in the first two innings to clinch that contest with the only Tech run coming on singles by Reid and Rick Young and a shortstop error.

Golf

Two defeats last week, 6-1 to Leicester Junior College, and 16 1/2-4 1/2 to Winchendon brought the frosh golfers' record to 1-4. Against Leicester at Oakier Country Club, Jim Smith was the only winner, while Ben Roach shot 79 in a losing cause. Dennis Coleman swept his match for 3 points at Winchendon, while Jeff Tranen earned 1 point and Neil Clark 1/2. First man Gerry Banner had a 75, but was defeated by an even par 70, 5 and 4. Roach again shot 79, but he also lost 4 and 2.

Loren Wood '66, thus ending the scoring for the first quarter. In the second quarter, UNH scored twice to even the score. With about two minutes left in the half, Mandle fed Bob Wiley '66 on the midfield line from behind the crease to give Tech its third goal. New Hampshire, however, tallied again to tie the game, 3-3 at the half.

Kirkwood scores

The scoring did not resume until the fourth quarter when Pete Kirkwood '66 rolled around his guarding defenseman from behind the crease to shoot the ball over the goalie's shoulder into the nets. New Hampshire, minutes later, tied the game for the third and last time. For with 8 minutes left, Art von Walberg '67 catching the New Hampshire defense off guard, scored the winning goal to give MIT its first victory over New Hampshire in four years.

Bob MacDonald '66, the MIT goalie, on his way to blocking 15 shots, made some unbelievable saves to help insure MIT's victory.

How They Did

Baseball

Harvard 11, MIT (V) 0
Coast Guard 2, MIT (V) 0
Coast Guard 3, MIT (V) 0
Harvard 12, MIT (F) 1
MIT (F) 10, Newton Jr. College 1
Heavy Crew
MIT (V) 6:53.7, BU 7:04.5,
Wisconsin 7:05.5, Dartmouth 7:06, Syracuse 7:10.5
MIT (JV) 7:12.9, BU 7:19.2,
Syracuse 7:20.2, Dartmouth 7:39.5
Dartmouth 7:10.5, BU 7:11.5,
MIT (F) 7:13, Syracuse 7:27
MIT (2nd F) 7:24.5, Dartmouth 7:34.2, BU 7:38

Light Crew

MIT (V) 6:54.6, Penn 7:02.3, Navy 7:03.6
MIT (JV) 6:56.2, Navy 7:05.6, Penn 7:10.2
MIT (F) 7:03.6, Navy 7:03.8, Penn 7:13

Golf

Harvard 5, MIT (V) 2
Leicester 6, MIT (F) 1
Winchendon 16 1/2, MIT (F) 4 1/2

Lacrosse

MIT (V) 5, UNH 4
MIT (F) 6, Tufts 2
Lawrence Academy 11, MIT (F) 4

Sailing

MIT (V) tied for third in New England Dinghy Championships
MIT (W) placed first in New England Women's Sailing Association regatta

Tennis

MIT (V) 9, Brandeis 0
Dartmouth 9, MIT (V) 0
Trinity 6, MIT (V) 3
Phillips Andover 8, MIT (F) 1
MIT (F) 7, Trinity 2

Track

Columbia 100, MIT (V) 49
Columbia 77, MIT (F) 70

Rugby

MIT (A) 14, Cornell 0

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