

Established At MIT In 1881.

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Cambridge, Mass., Wednesday, November 15, 1961

5 Cents

MIT Professors Write Kennedy



Professor Patrick Wall

Sixty-one MIT professors have signed an open letter to President John F. Kennedy expressing deep concern over the state of national civil defense. Along with one hundred twenty-two other professors from Boston University, Brandeis, Harvard, and Tufts, the MIT professors said in part, that "... although the present civil defense program, and in particular the construction of fallout shelters, might save a small fraction of the population in a nuclear war, this potential gain is more than offset by the fact that such activity prepares the people for the acceptance of thermonuclear war as an instrument of national policy. We believe that this acceptance would substantially increase the likelihood of war. . . ."

The letter was run in the *New York Times* of November 10th as an advertisement. The signers call themselves the Civil Defense Letter Committee, and have taken a Belmont post office box to receive mail. Most of the signers are in the departments of the School of Science, here and at the other universities.

The major thesis of the letter is that any effective shelter program would involve a truly massive construction program placing enough of the economy and national communications underground to permit operation immediately after a massive attack. The letter maintains that this would involve expenditures comparable to the

total current national investment.

The letter goes on to say that "The principal danger of the present program is the false sense of security engendered. It is much like a quack cure for cancer. If we are lucky, the 'treatment' may not kill us, but in the meantime, while the cancer is growing and becoming incurable, we fail to go to a reputable physician for sensible treatment."

The letter concludes with a (Please turn to page 10)



Professor Norbert Wiener

8 P.M. At Kresge

Eaton Speaks Tomorrow

Cyrus Eaton, American industrialist, will speak as a guest of Lecture Series Committee at MIT. The program, to be held Thursday, November 16, at 8 p.m. in Kresge Auditorium, is open to the public. Mr. Eaton will discuss "The Engineer as Philosopher and Citizen."

Cyrus Eaton is the founder of the Pugwash Conferences for the exchange of ideas among scientists, authors, educators, and diplomats. He is chairman of the Board of the Chesapeake & Ohio Railroad, Detroit Steel, West Kentucky Coal Co., and Steep Rock Iron

Since inception of the Pugwash Conferences in 1954 Mr. Eaton has spoken to audiences in key cities in the U. S. and Canada urging cordial relations between East and West. In

1960 he was host to Nikita S. Khrushchev during the premier's visit to the United States.

Previous speakers brought to MIT by Lecture Series Committee include Barry M. Goldwater, Wernher von Braun and Pierre Mendes-France, former French premier.

Materials Science Center Assured By Second Century Fund Growth

Funds have been received to assure the construction of a \$6 million, five-story Center for Materials Science and Engineering at MIT, Institute officers announced Monday. Construction of the new center, for which architectural designs are now being completed, has been formally approved by the Executive Committee of the MIT Corporation.

The building will be located directly north of MIT's Great Dome in what is called the main parking area which opens on Massachusetts Avenue.

The concrete and glass building will provide more than 150,000 square feet of laboratory, classroom and office space for interdisciplinary teaching and research in the broad field of materials.

The Materials Center building will connect to the main Institute building on all floors, facilitating integration of the Center with the rest of the Institute's teaching and research activities. Research and teaching facilities will be provided in the Center for students and faculty from several MIT science and engineering departments.

Dr. John C. Slater, an Institute professor and former Head of the MIT Department of Physics, is the chairman of a steering committee responsible for the planning of the Materials Center. Other committee members are Dr. Peter Elias, professor and Head of the Department of Electrical Engineering, and Dr. N. J. Grant, professor and Head of the Department of Metallurgy.

The architectural firm of Skidmore, Owings & Merrill of Chicago, Illinois, will begin detailed planning and designing of the new Materials Center building immediately. Preliminary plans should be completed by February, 1962, and construction started in November, 1962. The schedule calls for the building to be ready for occupancy by September, 1964.

Architectural work started earlier on two projects made possible by the Fund—one a \$5 million Center for Earth Sciences and the other a dormitory for women students. Yet to be initiated under the program are a Center for Communications Sciences, a Center for the Life Sciences, a Center for Aeronautics and Astronautics, plus a Graduate Residence Center and a new Student Union.

These later phases of the program will be started as the Second Century Fund draws toward the \$66 million goal. The fund, thus far, Institute officials said, has received gratifying support throughout the United

States, and the Institute is looking forward to an early, successful completion of its building and development program.

This and similar centers to be created at MIT will represent major new additions to the advanced research and educational resources of Metropolitan Boston. The Materials Center will help meet an urgent national need for more basic research in the materials field and for more scientists and engineers competent to advance the science and technology of materials.

(Please turn to page 10)

Spring Weekend: Formal Dance, Concert Planned

A spring weekend, patterned after last year's Centennial Weekend, has been scheduled for May 4, 5, and 6.

The main events will be a Friday night formal dance, entertainment Saturday night, and Tech Night at the Pops.

Erich Ippen, '62 and Neal Weatherbie, '62 head the committee which will plan the weekend. The other members of the committee are Jim Champy '63, Paul Cunningham '62, Steve Kaufman '63, Bill Pinkerson '64, Ed Schneider '63, Pete VanAken, and Al Womack '63.

Both Friday and Saturday night events will be held in the cage, where special arrangements have been made for a dance floor.

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Revolving Seats Marked For Class B Activities

Activities Council has announced that Class B activities might be represented on the Council by five rotating members. Activities which are interested in positions should submit a letter stating their intentions.

The plan for selecting activities to hold rotating memberships calls for election by the Activities Council. Activities submitting letters to the Council (50-110) by Tuesday, Nov. 21 will be considered. Activities should state why they would like to be seated on the Council and the contributions which they can make.

Factors influencing the decisions of the Council will be the record of the activity as an industrious organization, and its past interest in the Council and its work. Some attempt will probably be made to select activities with varying interests and sizes.

Winners Of Nov. 7 JP Ballot Announced

Five sophomores were chosen to the class of '64 Junior Prom committee by the Nov. 7 ballot. Elected are: Charles Elias, AEP; Kim Sloat, DU; Bruce Strauss, Baker; Dave Sullivan, TC; and Samuel Taub, Baker.

The three unfilled positions on the eight man JP committee will be filled by the '64 class officers to be elected in the second term.

Debaters Win First Outing

The MIT Debate Society entered two tournaments last weekend.

At home, the Society held its first Greater Boston tournament, with 11 teams competing, and finished first. The negative team of Ralph Grabowski '63 and Mike Armstrong '64 was undefeated, and took first place among negative teams. Mike

Armstrong was chosen second negative speaker. On the affirmative side, the team of Gene Finken '62 and Madis Sulg '65 was likewise undefeated, and finished as the second affirmative team.

In Philadelphia, at the Villiger Invitational at St. Joseph's College, MIT placed seventh among 34 teams, and ranked above any other New England entry. The negative team of Glen Books '63 and John Morris '64 was one of three undefeated negatives in the five round tournament, and the affirmative of John Castle '63 and Steve Wanner '63 also placed well.

The topic in both tournaments was the year's national topic: "Resolved: Labor Organizations Should Be Under the Jurisdiction of Anti-trust Legislation."

This weekend the Society will send both varsity and novice teams to compete in the Vermont Invitational at the University of Vermont.

Freshman Grades

Freshman intermediate grades will be available through faculty advisers after 1 p.m. Monday, Nov. 20.

First Lecture In Lincoln Series Tonight

Tonight in Kresge Auditorium at 8 p.m. one of the world's most distinguished scientists and industrial research administrators will be the opening speaker in the lecture series, "The Age of Electronics", sponsored by MIT Lincoln Laboratory. Prof. Dr. H. B. G. Casimir, Director of the Philips Research Laboratories in Eindhoven, The Netherlands, will speak on "Maxwell, Hertz, and Lorentz", three great scientists of the past century who established the broad scientific foundations upon which modern electronics and communications are built.

The lecture is open to the public without charge.

Dr. Julius A. Stratton, President of MIT, will introduce

Professor Casimir and Dr. Carl F. J. Overhage, Director of Lincoln Laboratory, will preside.

Professor Casimir has merged a brilliant career in theoretical physics and teaching with an equally successful career at the head of a world renowned industrial research organization. The Philips Research Laboratories conduct advanced research in physics, communications and other fields contributory to the electronics industry.

Casimir joined the Philips organization in 1942 and has been Director of its Research Laboratories since 1945. He has also

been engaged in teaching at leading universities in The Netherlands and in the United States. Many of his technical publications in theoretical physics are widely known among scientists and are generally considered to be classics in the field.

Professor Casimir is well-known in this country, and has many friends and colleagues in Greater Boston. He is a member of a Working Group developing plans for an International Institute of Science and Technology that would forge a vital link between technical industries and academic research in

Western Europe. Under the chairmanship of Dr. James R. Killian, Chairman of the Corporation at MIT, this Group is composed of seven scientists and educators from NATO countries.

Casimir has been a visiting member of the faculties of Johns Hopkins, Michigan, and Princeton Universities, and has been Professor of Physics at the University of Leyden since 1939. He is a member of the Royal Academy of Amsterdam and an honorary member of the American Academy of Arts and Sciences. He is Chairman of the Board of the Nuclear Energy Division of the Royal Institute of Engineers in The Netherlands.

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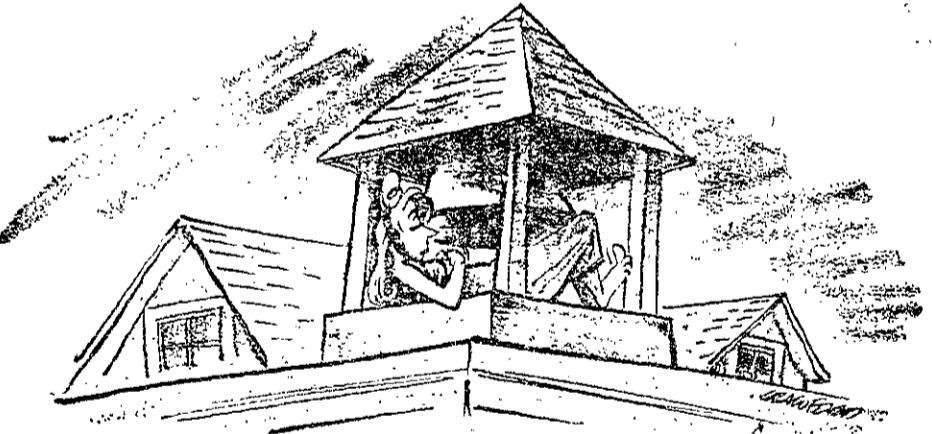
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On Campus with Max Shulman
(Author of "I Was a Teen-age Dwarf", "The Many Loves of Dobie Gillis", etc.)

THE TRUE AND HARROWING FACTS ABOUT RUSHING

It is well enough to sit in one's Morris chair and theorize about sorority rushing, but if one really wishes to know the facts, one must leave one's Morris chair and go out into the field. (My Morris chair, incidentally, was given to me by the Philip Morris Company, makers of Marlboro Cigarettes. They are great-hearted folk, the makers of Marlboro Cigarettes, as millions of you know who have enjoyed their excellent cigarettes. Only from bountiful souls could come such mildness, such flavor, such filters, such pleasure, as you will find in Marlboro! For those who prefer crushproof boxes, Marlboro is available in crushproof boxes. For those who prefer soft packs, Marlboro is available in soft packs. For those who prefer to buy their cigarettes in bulk, please contact Emmett R. Sigafos, friendly manager of our factory in Richmond, Virginia.)

But I digress. I was saying that in order to know the true facts about sorority rushing, one must go into the field and investigate. Consequently, I went last week to the Indiana College of Spot Welding and Belles Lettres and interviewed several million coeds, among them a lovely lass named Gerund McKeever. (It is, incidentally, quite an interesting little story about how she came to be named Gerund. It seems that her father, Ralph T. McKeever, loved grammar better than anything in the world, and so he named all his children after parts of speech. In addition to Gerund, there were three girls named Preposition, Adverb, and Pronoun, and one boy named Dative Case. The girls seemed not to be unduly depressed by their names, but Dative Case, alas, grew steadily more morose and was finally found one night dangling from a participle. After this tragic event, the father abandoned his practice of grammatical nomenclature, and whatever children were subsequently born to him—eight in all—were named Everett.)



But I digress. I was interviewing a lovely coed named Gerund McKeever. "Gerund," I said, "were you rushed by a sorority?"
"Yes, mister," she said, "I was rushed by a sorority."
"Did they give you a high-pressure pitch?" I asked. "Did they use the hard sell?"
"No, mister," she replied. "It was all done with quiet dignity. They simply talked to me about the chapter and the girls for about three minutes and then I pledged."
"My goodness!" I said. "Three minutes is not very long for a sales talk!"
"It is when they are holding you under water, mister," said Gerund.
"Well, Gerund," I said, "how do you like the house?"
"I like the house fine, mister," she replied. "But I don't live there. Unfortunately, they pledged more girls than they have room for, so they are sleeping some of us in the bell tower."
"Isn't that rather noisy?" I said.
"Only on the quarter-hour," said Gerund.
"Well, Gerund," I said, "it has certainly been a pleasure talking to you," I said.
"Likewise, mister," she said, and with many a laugh and cheer we went our separate ways—she to the campanile, I to the Morris chair.

The Philip Morris Company makes, in addition to Marlboro, the new unfiltered, king-size Philip Morris Commander—choice tobacco, gently vacuum cleaned by a new process to assure you the finest in smoking pleasure.

Calendar of Events

*Open to the public.
WEDNESDAY, NOV. 15
OPERATIONS RESEARCH CENTER.*
Seminar: "The Critical Path Method." Dr. James E. Kelley, Jr., Director of Mathematical Research, Mauchly Associates, Inc., Fort Washington, Pa. Room 1-146, 2:00 p.m.
MIT HILLEL SOCIETY.
Study group: "Towards a Social Philosophy." 317 Memorial Drive, 4:00 p.m.
MIT CHEMICAL SOCIETY.
Meeting: "Statistical Mechanics." Professor Irwin Oppenheim, MIT. Refreshments will be served.
Spofford Room, 1-234, 5:00 p.m.
TECHNOLOGY CATHOLIC CLUB.*
Meeting.
Miller Room, 3-070, 5:00 p.m.
JAPAN SOCIETY OF BOSTON.*
Japanese film series: "Tokyo Boshoku" (Tokyo Twilight). Third in a series of four modern Japanese films with English subtitles. Tickets are on sale at the door. Room 10-250, 7:00 & 9:15 p.m.
SEMINAR SPONSORED BY THE PROTESTANT MINISTRY.*
Seminar in New Testament Greek. Dr. Goetchius, Episcopal Theological School. 317 Memorial Drive, 7:30 p.m.
MIT HILLEL SOCIETY.*
Israeli Dancing. Admission 50c.
Walker Memorial, Room 201, 8:30 p.m.
LINCOLN DECENNIAL LECTURES.*
"Maxwell, Hertz and Lorentz." Hendrik B. G. Casimir, Philips Research Laboratories, Eindhoven, The Netherlands. Kresge Auditorium, 8:30 p.m.
Yetaoin
THURSDAY, NOV. 16
ORGAN RECITAL.*
Noonday Organ Recital. Victor Mattfeld, M.I.T. Organist. Admission free. Kresge Auditorium, 12:15 p.m.
DEPARTMENT OF NUCLEAR ENGINEERING.
Seminar: "An Application of Dynamic Programming." J. B. Wall. "Plasma Diffusion in a Magnetic Field." S. D. Rothleder. "Temperature Coefficients in Thermal Reactor Systems." J. A. Larrimore. Building NW-12, 138 Albany St., 3:00 p.m.
MIT POLITICAL SCIENCE SECTION.
ARTHUR AND RUTH SLOAN LECTURES.*
"The Outlook for South Africa." Ezekiel Mphahlele, noted South African author. Hayden Library Lounge, 1:00 p.m.
FRIDAY, NOV. 17
DEPARTMENT OF CHEMICAL ENGINEERING, 10.991 SEMINAR.
"The Selectivity of a Clean, Germanium Surface for the Catalytic Decomposition of Ethanol." R. Merrill. Room 12-182, 3:00 p.m.
"A Comparison of the Liquid-Phase and Vapor-Phase Hydrogenation of Ethylene." Room 12-142, 4:00 p.m.
DEPARTMENT OF MECHANICAL ENGINEERING.
Seminar: "Electrical Contact Between Metals." Dr. J. B. P. Williamson, Director of Research, Bowden Laboratory, Cambridge, England. Coffee in the Miller Room (3-070) at 3:00 p.m.
TECHNOLOGY CATHOLIC CLUB.*
Philosophy Lecture Series: "Space in Time." Father William Wallace, O.P. Room 3-133, 5:00 p.m.

DEPARTMENT OF AERONAUTICS AND ASTRONAUTICS.
Fluid Mechanics Seminar: "Colloid Propulsion." Professor C. R. Peterson, MIT. Coffee in the duPont Room (33-207) at 4:00 p.m.
Room 33-319, 4:00 p.m.
MIT HILLEL SOCIETY.
Study group: "Basic Concepts of Judaism." 317 Memorial Drive, 4:00 p.m.
DEPARTMENT OF PHYSICS.*
Colloquium: "On the Trail of the Omega o." Dr. Louis Osborne, MIT. Tea in the John Ficker Kolker Room (26-414) at 3:30 p.m.
Room 26-100, 4:00 p.m.
DEPARTMENT OF MATHEMATICS.
BRANDEIS-HARVARD-MIT MATHEMATICS COLLOQUIUM.*
Speaker: Professor Shizuo Kakutani, Yale University. Tea in the Common Room at 4:00 p.m.
Room 2-390, 4:30 p.m.
WATER POLO CLUB.*
Meeting.
Alumni Pool, 6:30 p.m.
DEPARTMENT OF CHEMISTRY.
HARVARD-MIT JOINT PHYSICAL CHEMISTRY COLLOQUIUM.*
"Electronic Conduction and Exchange Interaction in Some Ion Radical Salts." Dr. R. E. Merrifield, E. I. duPont de Nemours and Company. Room 6-120, 8:00 p.m.
LECTURE SERIES COMMITTEE.*
Lecture: "The Engineer as Philosopher and Citizen." Cyrus Eaton, Chairman of the Board and Director, Chesapeake and Ohio Railway. Kresge Auditorium, 8:00 p.m.
SATURDAY, NOV. 18
MIT HILLEL SOCIETY.
Discussion group: "The Torah Portion of the Week." 317 Memorial Drive, 2:30 p.m.
LECTURE SERIES COMMITTEE.*
Entertainment film series: "The 39 Steps." Admission 30 cents.
Room 10-250, 5:15, 7:30, and 9:45 p.m.
MIT ATHLETIC ASSOCIATION.*
All-Institute Swimming Meet. Alumni Pool, 8:00 p.m.
YASSAR CENTENNIAL PROGRAM.*
World Premier of the American opera, "Command Performance." Tickets are available at the Boston Opera Group, 172 Newbury Street, Boston. Kresge Auditorium, 8:30 p.m.
SUNDAY, NOV. 19
PROTESTANT CHRISTIAN ASSOCIATION.
Breakfast for Protestant Students. West Dining Room, Graduate House, 10:00 a.m.
MIT HUMANITIES SERIES CONCERT.*
Concert by the Juilliard String Quartet. Kresge Auditorium, 8:30 p.m.
MONDAY, NOV. 20
APPLIED MATHEMATICAL AND MECHANICS COLLOQUIUM.*
"On the Stability of Internal Baroclinic Jets in a Rotating Fluid." Professor Jule G. Charney, Department of Meteorology, MIT. Tea in Room 2-290 at 3:30 p.m.
Room 3-270, 3:30 p.m.
MIT SCIENCE REPORTER.
"The Learning Machine." Dr. Bert Little with guests, Donald Garr, Director of Engineering, Raytheon Company and Jean-Paul Gravel, Raytheon Company. Wednesday, November 15, 9:30 p.m. and Sunday, November 19, 4:00 p.m.
MIT HILLEL SOCIETY.
Study group: "Judaism and Modern Science." 317 Memorial Drive, 4:00 p.m.
CHORAL SOCIETY.
Rehearsal. Kresge Auditorium, 7:30 p.m.
MIT COMMUNITY PLAYERS.
Monthly dinner meeting. Playreading of George Kelly's "The Torchbearers," directed by Iness Gobbi. Cocktails at 5:30
(Please turn to page 3)



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PLACEMENT INTERVIEWS
NOVEMBER 15
Los Alamos Scientific Lab (2, 3, 6, 8, 10, 18, 22); Proctor & Gamble (1, 2, 3, 5, 6, 8, 10, 14, 15, 17, 18, 21); American Can Co. (2, 5, 10); Burroughs Corp. (2, 6, 8, 18); General Food (2, 5, 6, 10, 15, 20); Mallinckrodt Chemical Works (10, 15); Minneapolis-Honeywell Regularito (2, 6, 8, 18); Radio Corporation of America (2, 6, 8, 16); RCA Labs (6, 8); U. S. Rubber (2, 5, 6, 8, 10, 15); International Business Machine Corp. (2, 3, 6, 8, 5, 15, 18).
NOVEMBER 16
Minneapolis-Honeywell Regularito Co. (2, 6, 8, 16); Radio Corporation of America (2, 6, 8, 16); RCA Laboratories (6, 8); International Business Machines Corp. (2, 3, 6, 8, 10, 15); IBM Product Development (2, 3, 5, 6, 15, 16, 18, 8); IBM Research Engineering (2, 5, 6, 8, 13); IBM Systems Engineering (1, 2, 8, 14, 15, 18, 21); Fairchild Semiconductor (5, 6, 8); Goodyear Tire and Rubber Co. (1, 2, 5, 6, 10, 15); Goodyear Aircraft (6, 2, 8, 16, 18); Hercules Powder Company (2, 5, 6, 8, 10, 16, 18); Kaiser Aircraft and Electronics (6, 8, 18); Mitre Corp. (1, 6, 8, 15, 18); Northern Research and Engineering Corp. (2, 10, 16, 22); U. S. Geological Survey (1, 5, 12).
NOVEMBER 17
Fairchild Semiconductors (5, 6, 8); Goodyear Tire and Rubber Co. (1, 2, 5, 6, 10, 15); Goodyear Aircraft (2, 6, 8, 16, 18); Goodyear International (All courses); Anaconda Wire and Cable Co. (2, 6, 10, 15); MIT Electronic Systems Lab. (6); Arthur D. Little, Inc. (5, 6); Helper, Inc. (6, 8, 18); Nortronics (2, 6, 8); Office of The Secretary of Defense (All engineering, 14, 15); The Dow Chemical Co. (2, 3, 5, 10, 11); Firestone Tire and Rubber Co. (2, 5, 10, 15, 21).
NOVEMBER 20
American Optical Co. (6, 8, 15); The Atlantic Refining Co. (5, 6, 10, 12); Imperial Chemical Industries, Ltd. (5, 7, 8); Polaroid Corporation (5); Socony Mobil Oil Co., Inc. (2, 6, 8, 18).
NOVEMBER 21
The Atlantic Refining Co. (5, 6, 10, 12); Dewey & Almy Chemical Division (2, 5, 10, 15); The Kaman Aircraft Corporation (2, 6, 16); Sikorsky Aircraft (2, 6, 16); Westinghouse Electric Corporation (2, 6, 8, 15); Wyandotte Chemical Corporation (10).

Unusual Gift To MIT

Stamp Sale To Net \$80,000

One of the most unusual gifts the Institute has ever received is expected to enrich MIT by nearly \$80,000. Several blocks of rare stamps, donated by Capt. Barrett G. Hides to his alma mater, will be sold November 27 at an auction in New York.

While the catalogue value of the more than 500 19th and 20th century American stamps involved is about \$44,000, it is anticipated that the present bull market in stamps will stimulate bids of nearly \$80,000.

Capt. Hides, who is president of the San Francisco Bridge Co. and a well-known engineer on the West Coast, graduated from MIT in 1922 with a B.S. degree in mechanical engineering. He is a retired captain in the United States Naval Reserve.

Stamp collecting has been Capt. Hides' life-time hobby. On several occasions, beginning in 1954, Capt. Hides donated portions of his vast collection to MIT. He has recently given his permission to sell these stamps.

According to H. R. Harmer, Inc., who will sell the stamps for MIT, the collection is almost entirely unused and "Includes many rare and interesting pieces."

Included in the portion of 19th century stamps are a pair of Providence five and ten-

centers issued in 1846; a pair of 1879 90-cent stamps valued at \$500; and a block of four two-cent stamps of an 1883 special printing.

The 20th century issues include a rare 1901 Pan-American Exposition issue one-center with inverted center engraving valued at \$1,150; a block of nine 1916-17 two-cent stamps with a single error five-cent stamp in the center of the block valued at \$1,500; and one of but four existing blocks of four 1909 four-cent stamps valued at \$5,500.

Ezekial Mphahlele To Talk On Africa

Ezekial Mphahlele, noted South African author, will speak tomorrow, November 16 on South Africa's future and what to expect of this African nation.

Mr. Mphahlele is spending the next few weeks at MIT as a visiting lecturer on African affairs.

His lectures here have been made possible by a grant of \$500,000 from Dr. and Mrs. Arthur W. Sloan. The grant will be used to establish a professorship in the Political Science department. Pending appointment of a professor, the grant is being used to help bring leading lecturers on Africa to the campus.

Mr. Mphahlele spoke November 7 on "The American Image in Emergent Africa." In this speech he mentioned that the aspects of American life which are played up in the African newspapers most often are American prosperity, anti-Communist fanaticism, racism, and the American "extrovert disposition".

According to Mr. Mphahlele, many Africans think of Americans as "people who must be so drunk with economic power that they can hold human life cheap." The statesmen who have visited Africa "to encourage black nationalism . . . and prevent communism from spreading," have done more harm than good, because it has given Africans the image that all Americans are interested in is stamping out communism.

Although the race problem in the South is played down generally, it still creates a bad impression of American toleration. The last major point he made was that American travellers inevitably and passionately believe that "Pepsi-Cola will raise our standards of living in Africa."

Mr. Mphahlele has written his autobiography entitled *Down Second Avenue*, which relates his early life in the segregated society in Pretoria.

His latest book, *The African Image*, will be published soon.

Calendar of Events

(Continued from Page 2)

p.m. with dinner following. For reservations call extension 2902. The group welcomes guests and new members. Penthouse, Faculty Club, 8:00 p.m. MIT HILLEL SOCIETY.

Study group: "Elementary-Hebrew." Room 5-231, 8:00 p.m.

THE TECHNOLOGY DAMES. Illustrated lecture. Films of Dr. Harold E. Edgerton's high-speed photography. Room 10-253, 8:00 p.m.

TUESDAY, NOV. 21

DEPARTMENT OF MECHANICAL ENGINEERING. ENGINEERING PROJECTS LABORATORY COLLOQUIUM. "Dynamic Loads in Spur Gear Teeth." Mr. J. S. Howland.

Room 3-351, 12:00 noon. COMPUTATION CENTER. Seminar: "Industrial Dynamics Assimilation of Management Systems." Dr. Edward B. Roberts, School of Industrial Management, MIT.

Room 26-168, 3:00 p.m. MIT HILLEL SOCIETY. Seminar on Jewish History.

317 Memorial Drive, 4:00 p.m. DEPARTMENT OF METALLURGY. Colloquium: "Chemical Bonding and Surface Behavior." Dr. H. C. Gatos, Lincoln Laboratory, MIT.

Room 5-120, 4:00 p.m. DEPARTMENT OF NAVAL ARCHITECTURE AND MARINE ENGINEERING. Seminar: "The Navy's Polaris Missile System." Captain W. H. Cross, Bureau of Ships, U.S.N. Coffee in Room 5-311 at 3:30 p.m.

Room 3-570, 4:00 p.m. DEPARTMENT OF CHEMISTRY. PHYSICAL CHEMISTRY COLLOQUIUM. "The Molecular Beams in Chemistry." Mr. Leonard Wharton, Harvard University. Tea in the Hayden Library Lounge (14E-310) at 4:00 p.m.

Hayden Library Lounge, 4:30 p.m. MIT HILLEL SOCIETY. Study Group.

Morse Hall, Walker Memorial, 5:00 p.m. TECHNOLOGY CATHOLIC CLUB. Theology Lecture Series: "What the Mystical Body Means." Father William Sullivan, C.S.P. Discussion at 4:30 p.m.

Room 3-133, 5:00 p.m. PROTESTANT CHRISTIAN ASSOCIATION. Study Group.

317 Memorial Drive, 5:00 & 7:30 p.m. WATER POLO CLUB. Meeting.

MIT FACULTY PISTOL AND RIFLE CLUB. Match with North Reading. Rifle Range, 8:00 p.m.

MIT HILLEL SOCIETY. Study group: "Elementary Yiddish." Room 1-203, 8:00 p.m.

WEDNESDAY, NOV. 22

MIT HILLEL SOCIETY. Study group: "Towards a Social Philosophy."

317 Memorial Drive, 3:00 p.m. SEMINAR SPONSORED BY THE PROTESTANT MINISTRY.

Seminar in New Testament Greek. Dr. Goetchius, Episcopal Theological School.

317 Memorial Drive, 7:30 p.m. LECTURE SERIES COMMITTEE. Lecture Series Committee Free Movie.

"The Fly." Kresge Auditorium, 8:00 p.m.

EXHIBITS*

HAYDEN GALLERY. "Greece: VI, V, IV Centuries." Photographic murals of ancient Greek sculpture and architecture with amphora, lecythos and bronzes loaned from the Boston Museum of Fine Arts. Displayed through November 22, Monday through Friday, 9:00 a.m. to 5:00 p.m.

FACULTY CLUB. Work by students of Robert O. Preusser, Professor of Visual Design.

Early New England pottery collected by Professor F. H. Norton.

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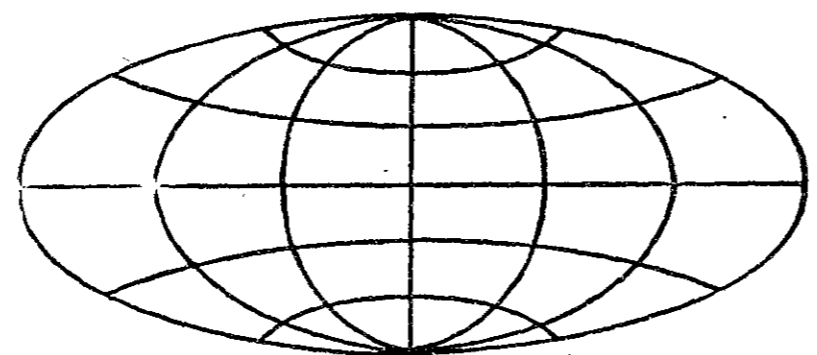
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Vol. LXXXI No. 23 Nov. 15, 1961

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The Library

Last week we wrote about some of the shortcomings of the present MIT library system, and noted that it is going to be hopelessly inadequate in the years to come. Since no provision has apparently been made in the Second Century Fund for improving the library, the Institute will have to be content with stop-gap measures for a long time. For this reason, we would like to discuss further current practices in the libraries that could be improved with very little effort.

The first of these is the present method of book checking. This was instituted a number of years ago to prevent wholesale pilferage. People who under any other circumstances would not consider stealing, somehow, when it comes to books, suddenly acquire a near kleptomania. The fact is, that the library is currently missing a large number of important books, of which there are no duplicate copies.

For this reason, we would like to draw attention to the current system that masquerades as book-checking. Some people regard the practice of having someone check their possessions as an affront to their dignity. If it is an affront, it is a necessary one, given the attitude of some people. But if there is to be a bookchecker, he has to be effectual or he might as well be dispensed with. In the Science Library at present, it is possible to walk forthrightly past the semi-inert bookchecker without arousing so much as a protest. Anyone really wishing to get a book out can do so with very little exertion.

Another practice we object to is the discrimination between graduate students and undergraduates with respect to certain journals. Many of these journals can be taken out of the library only by graduate students. At MIT, graduates and undergraduates take many of the same courses, and often, the undergraduates are working at the more advanced level. Many of them are also engaged in research projects that require the use of the current literature. Since so little differentiation is made between undergraduate and graduate academically, it is arbitrary and unfair to deny the undergraduate access to volumes often in the possession of the graduate student.

Academic Freedom

Free speech, always praised but frequently abused, has received several severe blows from the administration of the city colleges of New York the past few weeks. The college authorities have refused to permit a Communist to speak to a discussion group, cancelled the rental of the Hunter College Assembly Hall by the conservative *National Review* magazine, and refused to allow Malcom X, leader of the Black Moslems, to speak before the college's NAACP chapter. Last Thursday, 1400 students cut classes and picketed the city college campuses in the Bronx and Manhattan in protest.

This violation of free speech is incredible in an American university. The tradition of academic freedom and the ideal of free inquiry helped make American universities, with some unfortunate exceptions, one of the leaders in the fight against the McCarthy insanity. Now that episode in our recent history is finished, it seems a return to the dark days of the early fifties to find the administration of a large and influential university acting in such a disgraceful manner.

Academic freedom is simply the freedom to hear any point of view, to investigate anything without restriction and without harassment. We read the *Communist Manifesto* in sophomore humanities in order to understand one of the most important movements in world history; we can buy the *National Review* at any newsstand. We can get books in favor of the John Birch Society or the Communist party. How can a society that is free enough to permit the sale of these "radical" and "unpopular" books deny their authors and followers the right to speak to the same people who can freely read their literature? It is not only a logical contradiction, it is also a

contradiction of the Bill of Rights of our constitution.

Free speech is one of those institutions that everyone agrees is wonderful, but when it comes to the actual act of inviting a "radical" to speak before a real audience, people suddenly seem less enthralled with the idea. Fortunately, there are a few groups, notably the American Civil Liberties Union, that really try to defend the true meaning of free speech. The ACLU, by its firm adherence to the letter and spirit of the Bill of Rights has succeeded in antagonizing almost everyone. Some on the left hate it because it defends the right of people like Lincoln Rockwell, head of the American Nazi Party, to be heard; the radical right hates it because it defends Communists. Free speech to these groups often seems to mean free speech for us but not for them. The ACLU is currently trying, through the courts, to get the city universities ban on speakers revoked. Let us fervently hope they succeed because a violation of civil liberties in one place will surely lead to violations elsewhere.

Shelter Opinion

We are happy to note that a large number of MIT instructors have finally spoken out on the fall-out shelter controversy. Though in this case we happen to agree almost completely with their opinions as voiced in their *New York Times* advertisement, we think it is a large step in the right direction that they took any stand at all. When a large number of professors in the sciences can agree on a position such as this, it carries great weight with the public at large. Rarely however, does one hear of faculty members voicing a public opinion on some matter outside their immediate professional interests.

There is a small band of scientists, here and elsewhere, who bear the brunt of public scientific battles. After being in the public eye for too long they very unfairly acquire the reputations of fanatics. One has only to think of Linus Pauling.

There are many students at MIT who believe that if they begin expressing public sentiments on politically loaded questions, or join controversial organizations, they will be denied "security clearance," or be refused industrial jobs. This may be true, but with the current fears about the future of this country under a near-war economy, it becomes more and more important that the scientific community withstand the pressures on it. Some way, somehow, it is up to the faculty at MIT, and elsewhere, to give the students they teach a sense of the social responsibility that goes with scientific knowledge. The forthright statement that appeared this week is a step in the right direction.

Charity Drive

The time of year when MIT students are asked to give selflessly is here once again. The Technology Community Association Charities Drive will be in progress all this week, and the TCA is asking all students to give as generously as they can.

The charities that the TCA has chosen to aid are all worthy of wholehearted support. They are the American Cancer Society, CARE, the United Fund, the World University Service, and educational television station WGBH. Donors will also be able to choose any other charity to which they would like to contribute.

In past years, the MIT charity drive has not been as successful as at other universities in this area. Tech students can be as generous as any others when they choose to be, and we hope they will make the TCA drive a great success.

The Calendar

Now that the Institute Committee has decided to postpone any decision with regard to the franchise of the calendar *Preview* it is possible, in the interim, to clear up some of the misunderstandings regarding that publication. We are opposed to the calendar not because it is hurting this newspaper financially—it is not—but because there is no need on this campus for the calendar as it presently exists.

Most of the information that appears in *Preview*, with few exceptions, appears in other publications on campus. The calendar, as it was originally proposed, might have been a useful source of information, carrying all kinds of schedules of activities that do not acquire a large circulation. In the nearly three months since the start of the term, *Preview* has not demonstrated any intentions of fulfilling this purpose. *Preview* is misrepresenting itself to advertisers, and should not be permitted to continue.

Letters To The Tech

Chaplain Reconsiders Statement on Fraternities

To the Editor:
 In a recent article in *The Tech* about my participation in a Freedom Ride, I was quoted (correctly) as being critical of the segregationist policies of MIT fraternities. Since then, members of several fraternities which are not discriminatory have told me that I was unfair to make such a blanket condemnation. I agree with my critics and wish, herewith, publicly to apologize to them.

MIT is a place where deep interpersonal relationships in the context of community life (which is the essence not only of good education but also of being a real human being) are not easily come by. In this situation, fraternities can have a vital function, but only insofar as they don't make exclusiveness (of race or social status or of the kind of "religion" which is just a dodge for racial or social prejudice) a synonym of brotherhood and only insofar as they know that their primary function is to be a community-building force in the general life of the Institute and not to be anxious players in the sad game of social oneupmanship. In the abstract, then, fraternities have a real function to play in the life of MIT; but in view of the situation in which many of them find themselves (cf. the article about fraternities in the recent *Esquire*), it will take real insight, hard work, much honest self-evaluation and courage to realize that function.

I have participated in the past in the effort of self-examination that one MIT fraternity undertook, and I would be willing to work in such terms with any other fraternity which thinks I might be helpful. I hope this clears the air.

Myron B. Bloy,
 Episcopal Chaplain

Calls For Students To Voice Opinions

To the Editor:
 Allow me to add my applause to your sensible and progressive minded editorials on the fallout shelter farce and the *National Review*.

It may be of interest that the American Nazi Party now owns stock in the *National Review*. The special bulletin accompanying the Oct. 15 issue of the *Rockwell Report*, official publi-

cation of the American Nazi Party, makes this and other connections between the two clear. It is possible that the NR will maintain ultrarespectability by soon "repudiating" the ANP. Manfred Evans, NR contributing editor, is a Birch Society "coordinator." Robert Welch was an original stockholder. J. B. Matthews and Colm Brogan are also associated with *American Opinion*, a Birch publication. I will not editorialize. These facts speak for themselves.

I say that peace is the only shelter, and find your editorials echo my own sentiments. When it is possible to shelter the farmlands, the rivers and lakes, and the produce thereon, then we can speak of sheltering city people. I refer the reader to *Consumer's Report*. Many back issues in this magazine have dealt with fallout in milk and food. Among their findings have been occasional occurrences of dangerous radiation levels in produce. This, it must be remembered, has been due only to peacetime tests! Think of the result possible after an atomic war, which involves no guarantee that cobalt bombs will not be used.

Another aspect of natural resource devastation possible under atomic attack would be our forests and other areas vulnerable to fire. Walter Sullivan, writing in the *N. Y. Times*, Nov. 1, cites a Rockefeller Institute report that fire storms, a particularly diabolical development noted in Tokyo and Hamburg during the last war, could be generated as far as 70 miles from a 100 megaton blast center. What is to prevent a nationwide forest fire from developing after an all-out attack? For the chances of survival in a fire storm I refer the reader to the *Times* article and suggest reading government conservation publications on forest fires and other pertinent material.

It is time that we students voice our opinions regarding the effects of war on civilization. It is time to call a halt to the possibilities of carnage and decay opened by the "get tough" school of neo-fascists and other cold war elements who, as evidenced by our newspapers and much more strongly revealed by the jingoism of such as the NR, influence some of our American foreign and domestic policy.

David Ecklein '63

Kibitzer

By Elwyn R. Berlekamp '62

Improper management of the trump suit caused declarer to go set instead of making an overtrick on today's hand, No. 10 from last Saturday's tournament at the MIT Bridge Club. The 4♠ contract was quite conservative, and many of the more ambitious pairs bid a small slam on the North-South cards. Such a contract is really quite good and should normally make were it not for the unfortunate lay of the East-West cards and a good defense. But in any case, most of declarer's problems were the same at either contract. Those declarers playing at 4♠ had to realize that two overtricks could not be made in order to get even one, and those playing at 6♠ had to realize that the contract was hopeless in order to prevent it from going down more than one.

East's 2♥ bid was quite weak when one considers the vulnerability, but on this particular hand it turned out well because it helped West get off to the correct opening lead, the ♥J. East's ♥A dropped South's ♥K and East immediately returned the ♥Q. Having been tipped off by the bidding that West must now be void of that suit, South wisely ruffed with the ♠10, on

NORTH			
♠	K J 5		
♥	9 7 5 4 3		
♦	—		
♣	A 7 5 4 2		
WEST		EAST	
♠	9 8 7 2	♠	6
♥	J	♥	A Q 10 8 6 2
♦	J 7 3 2	♦	9 8 4
♣	K Q J 3	♣	10 9 8
SOUTH			
♠	A Q 10 4 3		
♥	K		
♦	A K Q 10 6 5		
♣	6		
Bidding, both vulnerable.			
North	East	South	West
P	2♥	3♦	P
4♣	P	4♠	All P
Opening lead: ♥J			

which West discarded a club. South then trumped a diamond in dummy and then made the very unwise decision that he needed another diamond ruff. Such a precautionary move against a 5-2 diamond split was most unwise and could not be afforded. However, declarer apparently did not think this far ahead and so calmly laid down the ♣A and then ruffed a small club in his hand. Another diamond was ruffed in dummy and then South finally got around to playing dummy's ♠K. Another club was ruffed by South.

(Please turn to page 5)

Kibitzer

(Continued from Page 4)
 followed by South's last trump, the ♠Q. South was now down to all high diamonds, but West still held three winners in the form of two trumps and a high club.
 At most tables South was

able to improve on this line of play enough to make 4♣, but he should without much difficulty be able to make 5♣. After trumping the ♥Q with the ♠10 and ruffing a little diamond in dummy, trumps should be drawn. The ♠K brings no unusual news, but when East fails to follow on the ♠J, South

should realize that he has no ready entry back to his hand and overtake this card with the ♠A. Diamonds should then be run immediately. West trumps in eventually, but that is the second and last trick for the defense as South still holds controlling trumps and the good diamond suit.

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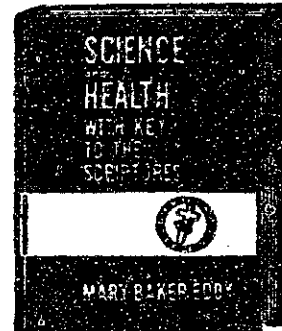


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Science and Health, the textbook of Christian Science, may be read or examined, together with the Bible, in an atmosphere of quiet and peace, at any Christian Science Reading Room. Information about Science and Health may also be obtained on campus through the

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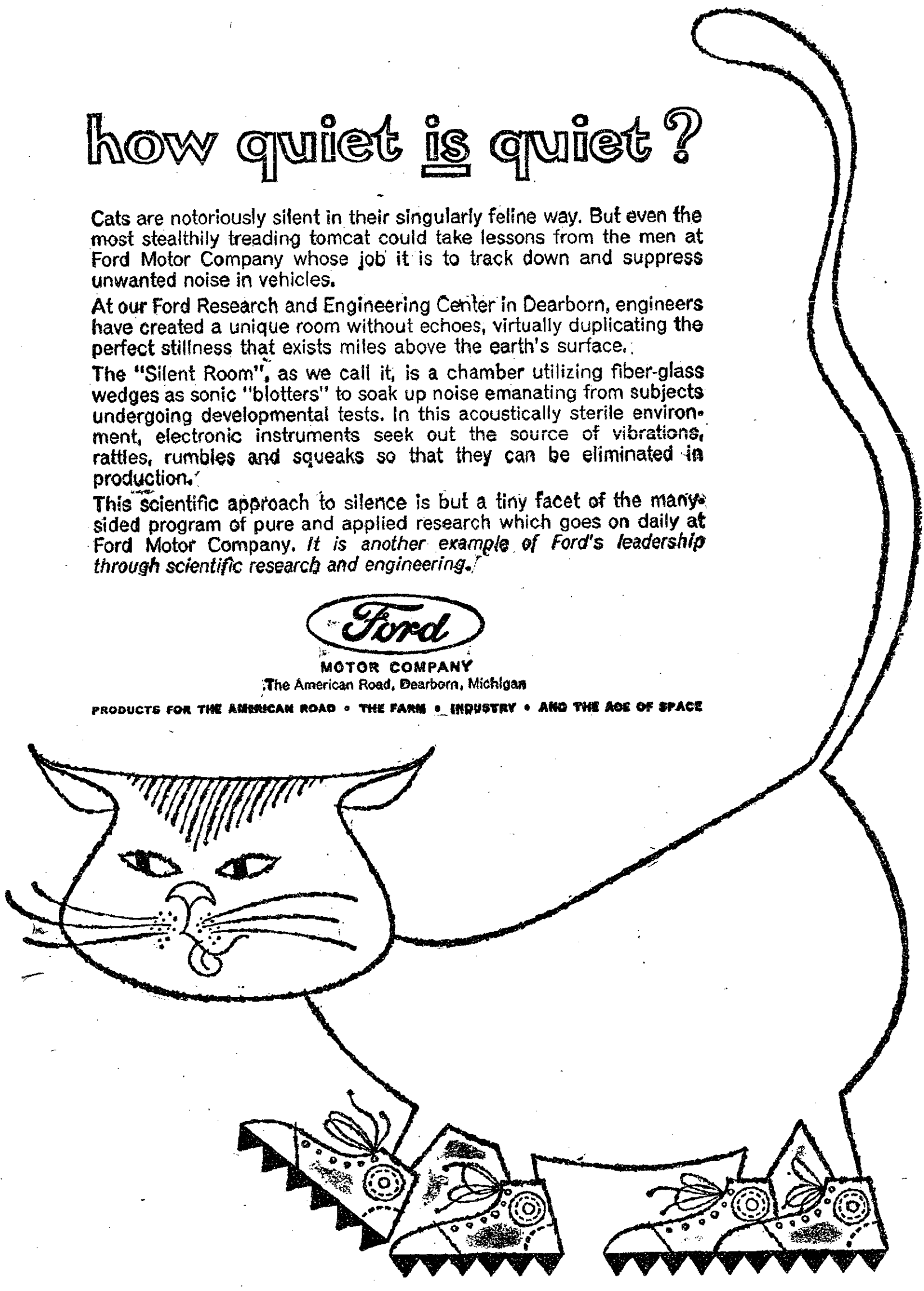
The "Silent Room", as we call it, is a chamber utilizing fiber-glass wedges as sonic "blotters" to soak up noise emanating from subjects undergoing developmental tests. In this acoustically sterile environment, electronic instruments seek out the source of vibrations, rattles, rumbles and squeaks so that they can be eliminated in production.

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Entertainment-wise

Avant-Garde Poets' Theater Announces First Play

Boston's only well-known avant-garde theater, the Poets' Theater, announces "An Evening With Mary McCarthy" at Sanders Theater in Cambridge. Tickets may be reserved at 1286 Mass. Ave. or at UN 8-6610 for the Tuesday, Nov. 28 performance at 8:30 p.m.

Lectures
 The 22nd Soviet Congress—Khrushchev's Triumphs and Failures" will be the topic of Maurice Hindus, widely-recognized authority on the Soviet Union, at Jordan Hall this Sunday evening (Nov. 19) at 8:00 p.m. Mr. Hindus' knowledge of the Soviet Union came from his experience as a foreign correspondent there. His lecture is sponsored by the Ford Hall Forum, and admission is free.

Dr. Leo Szilard, famed nuclear physicist and co-discoverer with Enrico Fermi of sustained chain reactions, will deliver a talk on the topic "Are We On The Road To War?" in Lowell Lecture Hall this Friday, Nov. 17, at 4:15 p.m. Lowell Hall is at the corner of Oxford and Kirkland Streets.

President Kennedy's special counsel for Latin American affairs, Richard N. Goodwin, will discuss United States-Latin American relations at Wellesley College this Thursday (Nov. 16). He will speak in Pendleton Hall on

the Wellesley campus at 7:30 p.m. Goodwin is Mr. Kennedy's personal representative in dealing with the Cuban exiles.

Musically
 Canada's favorite folk singer, Alan Mills, will appear in the same program with the Canadian fiddler Jean Carignan and New England's own tenor, Tony Salettan, in the Folklore Concerts Series at Jordan Hall this coming Saturday, Nov. 18, at 8:30 p.m.

Mischa Elman, grandmaster of the violin, will appear in a benefit performance sponsored by the New England Conservatory of Music Alumni Association at Symphony Hall, Tuesday, Nov. 21. A reviewer for the N. Y. Post has said of Elman, "His beautiful sounds and his elegance in turning a phrase still stamp him as master of his instrument. His playing . . . is projected consistently with the effortless, inborn, conviction of one born to his instrument."

A symphony by Brahms, a piano concerto by Beethoven, and an overture by Ernst Toch will highlight the opening concert of the Civic Symphony Orchestra of Boston next Tuesday, Nov. 21 in Jordan Hall. Kalman Novak, newly named conductor of the Orchestra, makes his bow in this concert.

Three noted members of the Boston Symphony Orchestra will be featured in a combination violin, cello, piano recital at the Isabella Stewart Gardner Museum (280 The Fenway) this Sunday afternoon (Nov. 19) at 3 p.m. Admission is free.

Alexander Borovsky, Russian-born veteran of some 2500 worldwide concerts in his 47 years of performing, will be featured as a soloist with the Boston University Symphony Orchestra in a program which will also include Flamenco music and a Robert Schumann symphony this Wednesday, Nov. 15, at 8:30 p.m. in the University's Concert Hall at 855 Commonwealth Avenue.

Theatrically
 It is with regret that we notice that "A Thurber Carnival" has not been receiving the patronage

which the quality of the production so richly merits. We read in the Boston Herald that "Boston play-goers are exercising their inalienable rights to stay away from a rare and amusing show", and that in this final week there are good seats at all performances, with a note of sadness, for there are few of us who have not enjoyed such Thurber humor as "The Secret Life of Walter Mitty" or "The Unicorn in the Garden." And the excellent trio of comedians at the Wilbur more than do justice to Thurber's wit. Those who let this production pass by are really losing by doing so.

First Love, Romain Gary's life story, will run for two more weeks at the Colonial. It stars Hugh O'Brian and Elizabeth Bergner, both veterans of New York and road show plays.

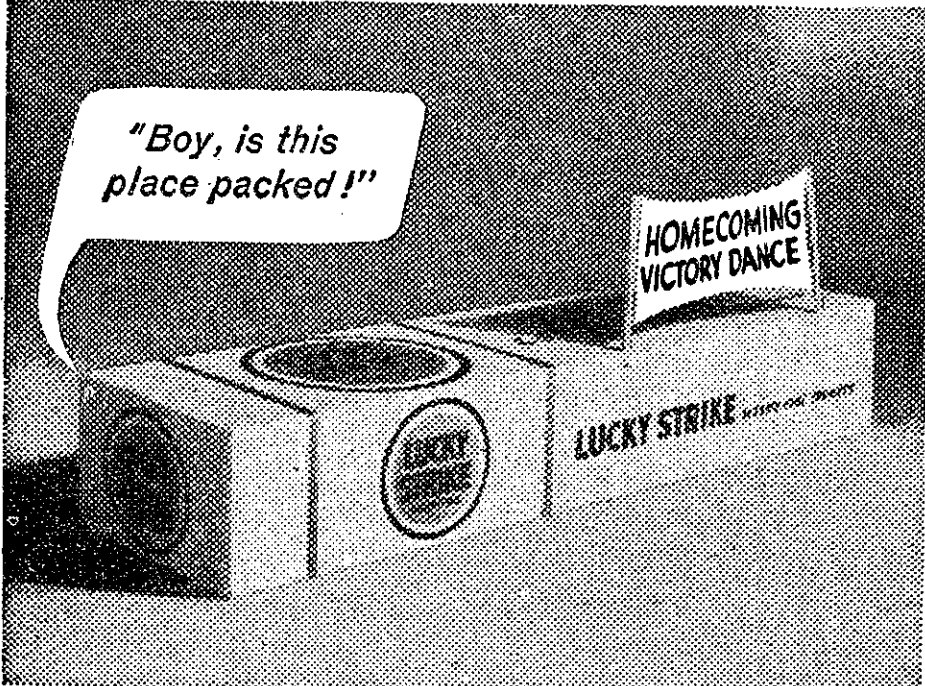
Apparently Brigitte Bardot has finally made a movie which connoisseurs of cinema and the masses both go for. It is called "The Truth," and has won numerous accolades in European film contests, including the French equivalent of the Oscar. It seems directorial genius Henri-George Clouzot was able to squeeze some genuine acting out of Brigitte. The film is presently at the Kenmore.

Susan Slade, a Parrish-type movie starring (who else?) Troy Donahue and Connie Stevens, has just opened at the Paramount Theater. It is the story of the love between Susan Slade, a foot-loose girl, and Troy Donahue, who plays some kind of an all-American boy.

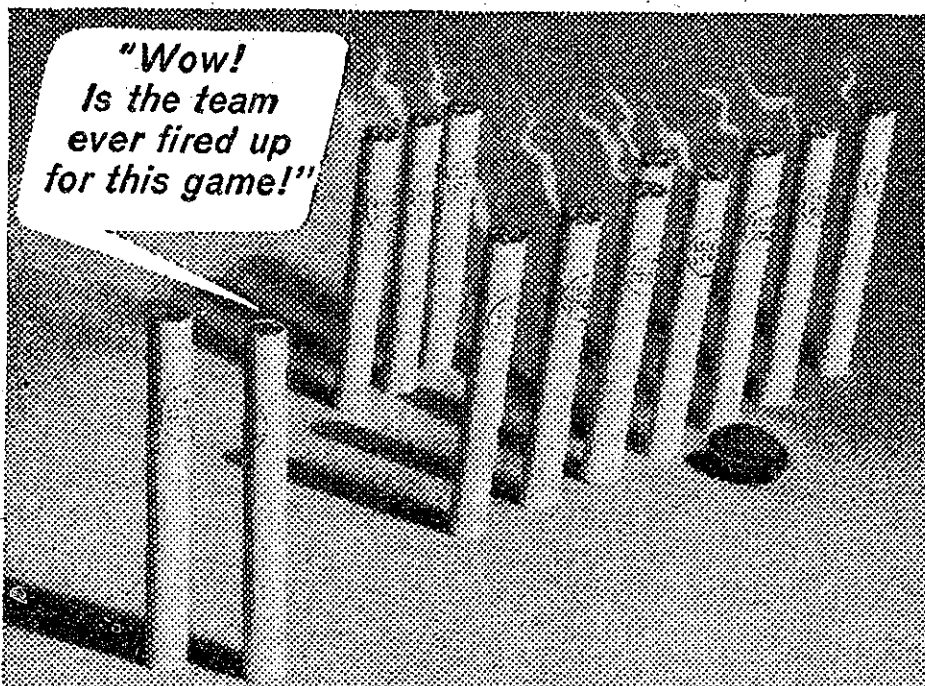
Warren Wiscombe '64

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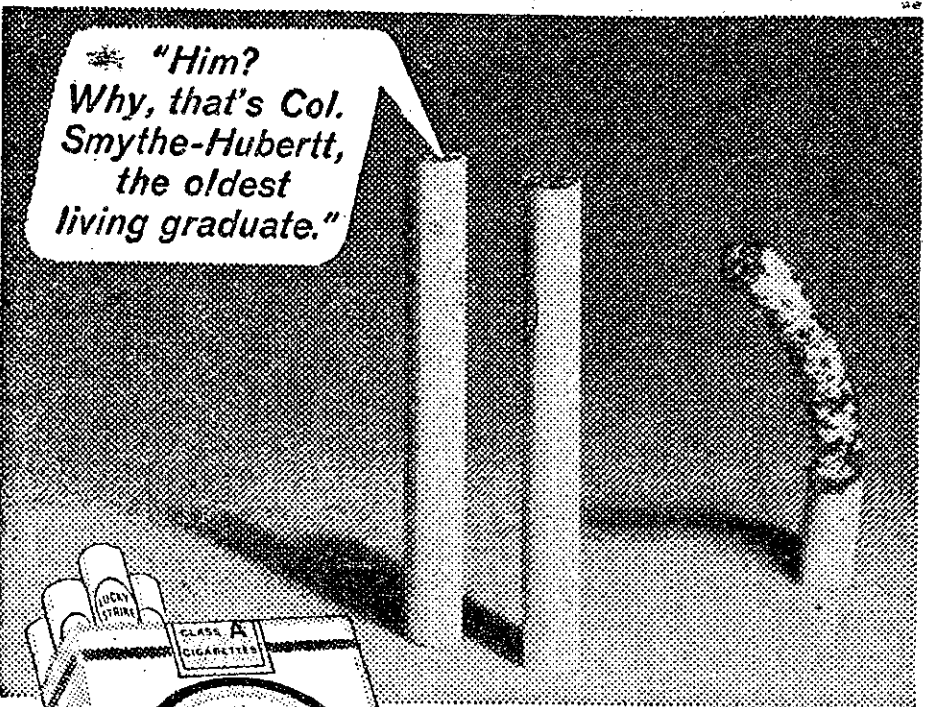
"HOMECOMING WEEKEND"



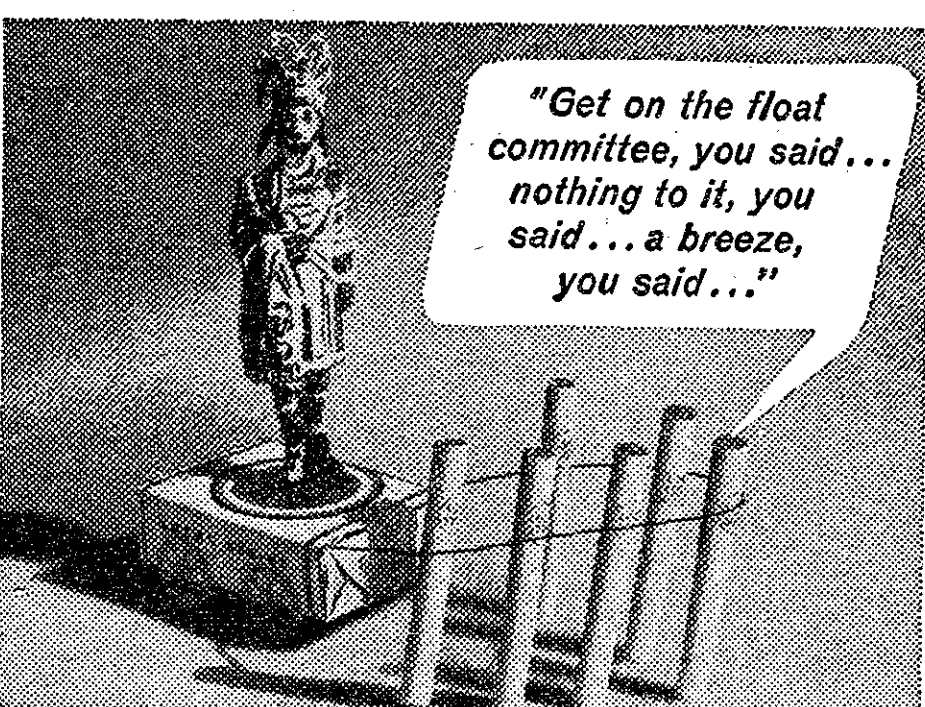
"Boy, is this place packed!"



"Wow! Is the team ever fired up for this game!"



"Him? Why, that's Col. Smythe-Hubertt, the oldest living graduate."



"Get on the float committee, you said... nothing to it, you said... a breeze, you said..."



WHAT DOES AN OLD GRAD LIKE BEST ABOUT HOMECOMING? Next to shaking hands, he likes reminiscing. About fraternity parties, girls, sorority parties, girls, off-campus parties, girls—and, of course, about how great cigarettes used to taste. Fortunately for you, Luckies still do taste great. (So great that college students smoke more of them than any other regular cigarette.) Which shows that the important things in college life stay the same. Parties. Girls. Luckies.

CHANGE TO LUCKIES and get some taste for a change!

Movie Schedule

- ASTOR—"Splendor in the Grass," 1.00, 3.00, 5.10, 7.10, 9.15.
- BEACON HILL—"Rocco and His Brothers," 1.35, 4.05, 6.35, 9.10.
- BOSTON—"Search for Paradise," (Cinerama) Monday - Saturday 8.30; Sunday 7.30; Wednesday, Saturday, Sunday, Holidays 2.30 matinee.
- BRATTLE—"Black Orphans," 3.30, 5.30, 7.30, 9.30.
- CAPRI—"Breakfast at Tiffany's," 1.30, 3.30, 5.30, 7.30, 9.30.
- CENTER—"A Cold Wind in August," 3.00, 6.30, 9.55.
- EXETER—"Devil's Eye," 2.20, 4.05, 5.55, 7.40, 9.30.
- FENWAY—"The Girl with a Suitcase," 1.37, 3.35, 5.33, 7.31, 9.29.
- FINE ARTS—Through Thursday: "The Seventh Seal," 3.45, 7.10, 10.00; "Three Strange Loves," 2.30, 5.30, 8.45 Starting Friday: "Grand Illusion," 3.30, 6.45, 10.00; "A Nous La Liberte," 2.00, 5.00, 8.45.
- GARY—"West Side Story," Evenings 8.30; Wednesday, Saturday, Sunday, Holiday 2.30; Sunday 5.30.
- KEITH MEMORIAL—"Backstreet," 9.30, 12.30, 3.40.
- KENMORE—"The Truth," 1.00, 3.05, 5.20, 7.30, 9.40.
- LOEW'S ORPHEUM—"Weekend with Lulu," 2.45, 6.00, 9.25; "Five Golden Hours," 1.00, 4.30, 7.50.
- METROPOLITAN—"Cat on a Hot Tin Roof," 3.10, 7.50; "Some Came Running," 1.00, 5.10, 9.25.
- PILGRIM—"Paris Blues," 2.35, 6.00, 9.20; "Naked Jungle," 1.00, 4.20, 7.40.
- SAXON—"King of Kings," Monday through Saturday, 8.30; Sunday 2.30, 8.00; Wednesday, Saturday, Holiday 2.30.
- TELEPIX—"Leda," 1.00, 2.45, 4.36, 8.12, 10.00; "Grantchester," 2.35, 4.25, 6.11, 7.59, 9.47.
- UPTOWN—"Fanny," 1.00, 5.05, 9.10; "Scream of Fear," 3.35, 7.40.

Theatre Schedule

- CHARLES—"The Great God Brown," 3.00, 7.30.
- COLONIAL—"First Love," Evenings 8.30; Wednesday, 2.15; Saturday 2.30.
- SHUBERT—"Fiorello," Evenings except Sunday, 8.30; Wednesday, Saturday, Sunday, 2.30.
- WILBUR—"A Thurber Carnival," Evenings 8.00.

Like To Write?

Would you like to attend earth-shaking events or other colloquiums? How about interviewing beautiful secretaries and/or their professors? Maybe you would like to investigate what goes on at the various girls' schools, or had been planning to ask for your own weekly column in *The Tech*.

If you can answer any of these questions with "yes" then you belong on *The Tech's* Features Staff, which could use more people anyway. If you are interested, contact Toby Zidle at *The Tech* offices, Walker Memorial, Sunday afternoon, or at Ext. 3289 any night.

theater . . .

'Leda': Drama of Iconoclasm

The French film "Leda" is Claude Chabrol's third film and his third succession to represent France and win honors in international film festivals. Chabrol is a veteran of the so-called "new wave" of films in France, and in "Leda" he has maintained this reputation by employing unorthodox time sequences in telling his story and by experimenting with color.

The setting of the story is the enchanting French countryside, much beloved by the Impressionist landscape painters, and dotted with vineyards, brooks, and lovely chateaus.

The story itself involves the clash of two generations . . . the staunch, provincial middle class

family confronting the rebellious and iconoclastic artists who have "invaded" the valley. And even more, it is a conflict of two philosophies: the old and the new, the individual against the conformist, self-realization versus respectability, today as opposed to yesterday.

The characters are the members of the Marcoux family, a family secretly divided and torn: the mother, Therese, possessive, and clinging to the provincialism which is all she knows; the father, Henri Marcoux, a weak man who thinks he has found an escape from his empty marriage through his love for Leda, exotic, sensuous

and artistic girl of Italian origin, reared in Japan.

Elizabeth, the daughter, is also seeking escape. She, like her father, finds it in love, but with the exuberant and impulsive Laszlo, who ridicules her bourgeois family.

The situation faced by this family is the intrusion into their middle-class provincial life of the two strangers: Leda, the young and idealistic artist, and Laszlo, whose dynamic vitality is both attractive and repugnant.

The cast includes Jean-Paul Belmondo as Laszlo and Antonella Laudì as Leda. Both have appeared in numerous French films.

"Leda" is presently showing at the Telepix Cinema in the Park Square Building.

Warren Wiscombe '64

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Crowther, N. Y. Times

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SUNDAY, NOV. 19—10:30 A.M.

NOTICE

The psychological laboratories of the Massachusetts General Hospital are looking for MALE volunteers to act as subjects in Psychological and Physiological experiments. Testing sessions will be on a fixed afternoon of the week for each subject. Each subject should be free to return 4-8 times at two weekly intervals. \$1.50 per hour.

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"Rocco And His Brothers" Shows Integration Of Various Themes

A sweeping theme of love and family strife is presented in "Rocco and His Brothers," currently being shown at the Beacon Hill Theater. Directed by Visconti, this Italian import features Alan Delon ("Plein Soleil") and Claudia Cardinale ("Girl With a Suitcase").

However, the stars are subordinated to the picture as a whole. It is Visconti who is displayed by the production, and who integrates the two basic themes of the film.

The first of the themes is the breakup of the family group, a country family who try to begin life anew in Milan, in which hatred and disgust replace the camaraderie they once knew.

The second is the degradation of Simon, the eldest of the three brothers, who is reduced from a strong, noble man to a quivering coward, hiding from the police.

The plot in itself is a simple one: boy meets girl; boy falls in love; brother meets girl; girl falls in love; boy kills girl. Through this general skeleton, the family ties dissolve completely because of the two brothers' love for the same girl, only for the brothers to be united after the girl's murder.

However, the plot is subordinate to the acting and directing which evolved the characters of these people. The great performance by Paxinou and the others left little to be desired in analysis of the characters. They

became individuals, rather than celluloid projections.

This picture, as an organic whole, should satisfy all those who take their movies seriously. Moreover, it contains enough action, life and violence to satisfy those who just go to the movies for entertainment and vicarious experience.

Richard N. Waterhouse '65

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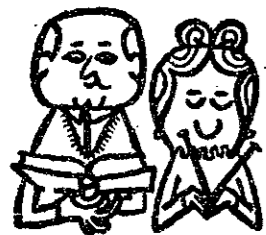
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College World

Beavers Defined As Class A Fire; Extinguished In Victory Celebration

By Toby Zidle '63

Yes, it happened at last. Victory has finally come to Tournament Park. The Beavers of Caltech have come through with their first football victory in two seasons, as they whipped Southern California College, 28-8.

Hot Rioters Cooled Off

The California Technicians could not take victory lying down. The situation obviously called for a riotous celebration—so they started a bonfire and had a riot. To quote the "Brewins" column in *The California Tech*: "Over-jubilant Technicians, seeking new methods of diversion, occupied themselves with a post-game asphalt roast. Ever-vigilant Pasadena authorities, summoned by West Covina police, hurriedly rushed to the scene—6 minutes and 9 seconds later. Seemingly disturbed at having been taken from their card games, Flame Fighters immediately defined all spectators as Class A fires, and proceeded to extinguish them."

Caltech's opponent, after Southern California College, is University of California, Riverside campus. The Beavers' chances for victory seem rather high. UCR so far this season has dropped each game.

Ransom: Bananas And Blood
 The McGill Daily has reported that a vicious gorilla is loose on its campus. Being a normal King Kong-type gorilla, one of his first acts was to kidnap a McGill coed. He later chased a zoology professor up a tree. The gorilla was thereupon ordered to report to the Dean of Men. Naturally, like any red-blooded American gorilla, he refused. Instead he delivered a note demanding ransom for the return of the coed.

The ransom demanded by the gorilla was a bunch of bananas and 3,500 pints of blood. King Kong was really blood-thirsty that day, but it was for a good cause—the blood drive. Unfortunately, however, the McGill students did not meet the ransom, and the coed escaped briefly enough to announce that she would never leave the gorilla.

"Busters" Works Fast

Cars, as well as coeds, can be held for ransom. In fact, that is often the case at the University of British Columbia. The ransom demanded is a \$5 fine plus towing charges. UBC's King Kong is known as "Busters", the local towing company.

The Ubysey recently reported the case of one Stuart Noble, a forestry major who foiled Busters in the act of carnapping. It seems that Stuart parked his car in front of a UBC building so that he could quickly return a book to his locker. When he returned about two minutes later, he found that Busters already had chains around his bumper. Supervising the carnapping, as an accessory to the crime was a UBC campus patrolman. Stuart and a friend got into the car but found that the keys were missing. In vain he protested to the patrolman. Stuart and his friend decided to sit it out in the car.

Mounties Called In

The patrolman ordered the Busters driver to continue with the carnapping, but the driver re-

fused. He told the patrolman that the car would not be insured if it was occupied while being towed. The patrolman then ordered Stuart and his friend out of the car, but they refused to move. He then called the Mounties. An RCMP officer came over and spoke to Stuart but did not order him out of the car.

By this time a crowd of fifty students had gathered at the scene to give their vigorous vocal support to Stuart. A few minutes later, a UBC dean arrived. The dean told Stuart that he could get out of the car, let it be towed away, and appeal the action at the traffic appeal board, or he could remain in the car and appear later before the faculty council.

Stuart remained and the students cheered.

Finally, the assistant superintendent of "B & G" arrived and told Stuart and his friend to get out of the car within one minute or face the consequences.

Sixty seconds passed and the car was still occupied.

Busters' driver was ordered to release the car, and the students cheered as Stuart drove away.

But when Busters goes out on a mission, it will not be denied success. Busters hauled away the patrolman's car. Someone had let the air out of the tires.

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Burtonites Protest

Revolution Hits Resolution

Coats, ties, and shorts—this was the attire of a group of Burtonites last Friday night as they joined together in a combination joke and protest move.

The move was prompted by a decision of the Burton Housecom members to wear coat and tie to dinner each Friday to set an example for the rest of the House, the idea being to obtain a proper atmosphere for Friday evening guests.

In last week's issue of the *Reflector*, the Burton House newspaper, Editor Marty Klein suggested the wearing of coats, ties, and either shorts or bathing suits.

Therefore, on Friday, a number of Burtonites (including a large contingent of residents from the 2nd floor) showed up

in odd degrees of dress and undress. One popular style consisted of coat and tie with either T-shirt or no-shirt.

The movement was attended by protests from Prof. Bartlett, housemaster, and an announcement by the dining hall staff that persons wearing bathing suits would not be served.

Marty's reason for instigating the move was his feeling that "the Housecom motion on the subject is only a first step toward an attempt to make coat-and-tie compulsory at all meals."

Similar resolutions in other dorms have also met with protests, but so far this has been the only actual demonstration.

'Excitons' Are Colloquium Topic

By Tom Sheahan '62

"Excitons in Solid Hydrogen" was the title of the colloquium given by Professor John Van Kranendonk of the University of Toronto last Thursday in 26-100 at 4 p.m. His talk was devoted to explaining a very new field of research which has not yet received great attention outside of Toronto.

Professor Van Kranendonk began by reviewing the classical theory of dipole radiation, pointing out that a vibrating or rotating molecule will emit and absorb radiation of the frequency of motion. However, certain symmetric diatomic molecules, such as hydrogen (H₂), nitrogen, and oxygen have no dipole moments, and hence will neither emit nor absorb radiation to a noticeable extent.

Since the frequency of such radiation lies in the infrared region of the spectrum, the diatomic gases should be "transparent" to such radiation; such is the case under normal conditions. But at high pressures, emission and absorption will take place; experiments have proven this phenomenon to be due to molecular collisions.

If an inert gas, such as argon, neon, or helium is added to a diatomic gas, it is possible to

induce absorption of the characteristic frequency of molecular motion. A dipole moment is induced in the inert atom, causing the quadrupole (higher-order) moment in the diatomic molecule to vibrate; this in turn makes the dipole moments of the inert gas atoms vibrate, resulting in radiation.

Professor Van Kranendonk went on to discuss several of the interesting effects related to this phenomenon which his laboratory has investigated. Using diagrams and equations freely, he explained that the effect could still be observed in a solid hydrogen crystal at very low temperatures, using helium as the inert element. At these temperatures, several quantum-mechanical effects take place, which require changes in the simple theory.

In order to mathematically develop the theory of induced absorption in solid hydrogen, it is useful to introduce the concept of "Excitons". If one molecule in the crystal is rotating while all others are stationary (in their ground states), this molecule is said to have an exciton. Such excitons can move about the lattice, causing one molecule to stop rotating, while another starts.

energy levels of the molecules split up into bands of levels differing by small amounts of energy. Obtaining information about these bands is a good way to check some of the predictions of solid-state physical theory.

The theory of vibrating molecules in crystals is the same as that for rotating molecules, but the splitting of energy bands is smaller. If rotation and vibration are mixed in a crystal their energies will interact, causing a small drop in the energy levels of the system.

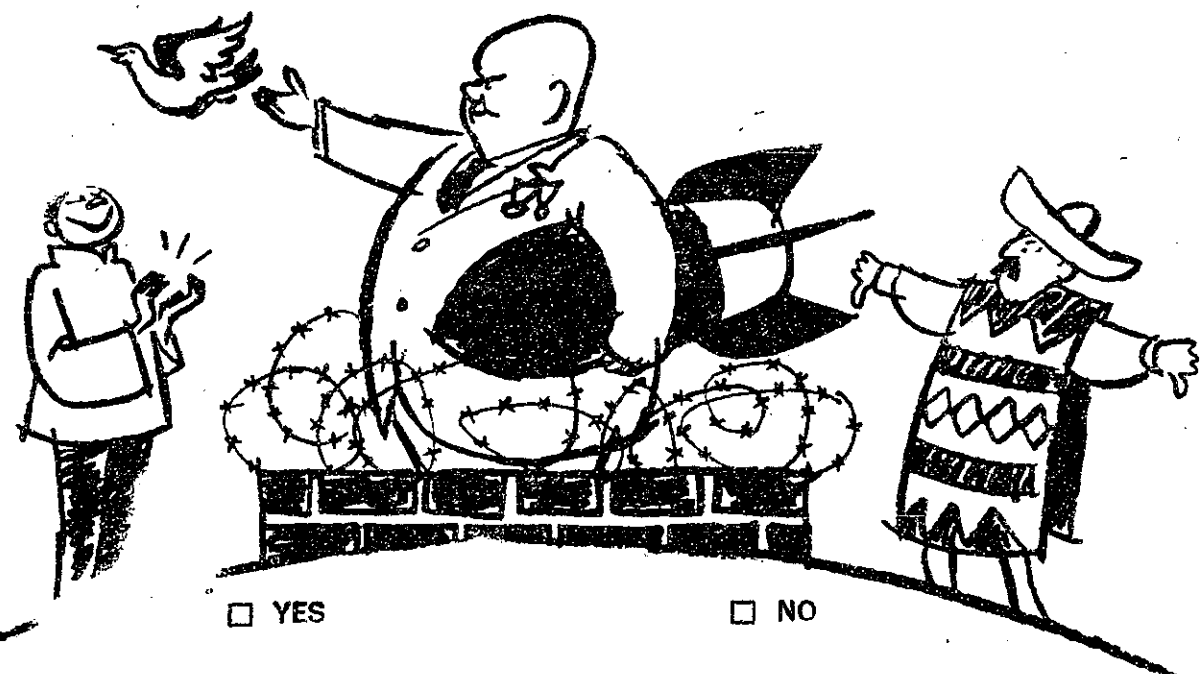
The University of Toronto physicists have investigated three major phenomena: they have shown that lattice vibrations are strongly "infra-red active" and will modulate the induced dipole movement; they have examined super radiant states, and correlated the reduced lifetime of states with the Mossbauer effect; and they have demonstrated that a mixture of ortho-hydrogen and para-hydrogen introduces a new fine-structure at low temperatures. Prof. Van Kranendonk closed with the hope that other laboratories would soon show interest in this unusual new field.

Tomorrow at 4:00 in 26-100, Prof. Louis Osborne of MIT will give a colloquium "On the Trail of the Wo," describing current research at the MIT synchrotron.

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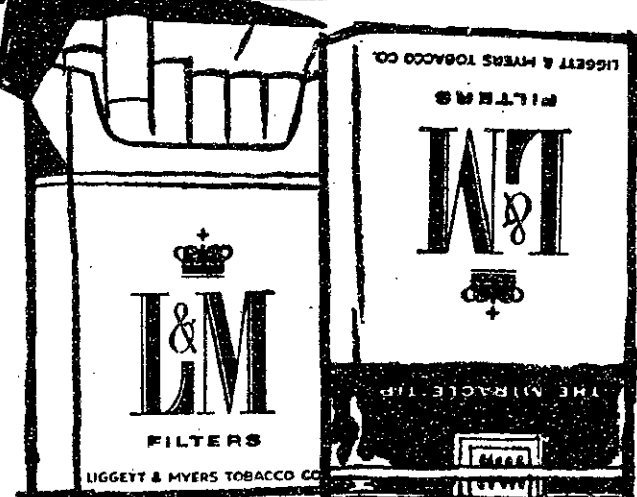
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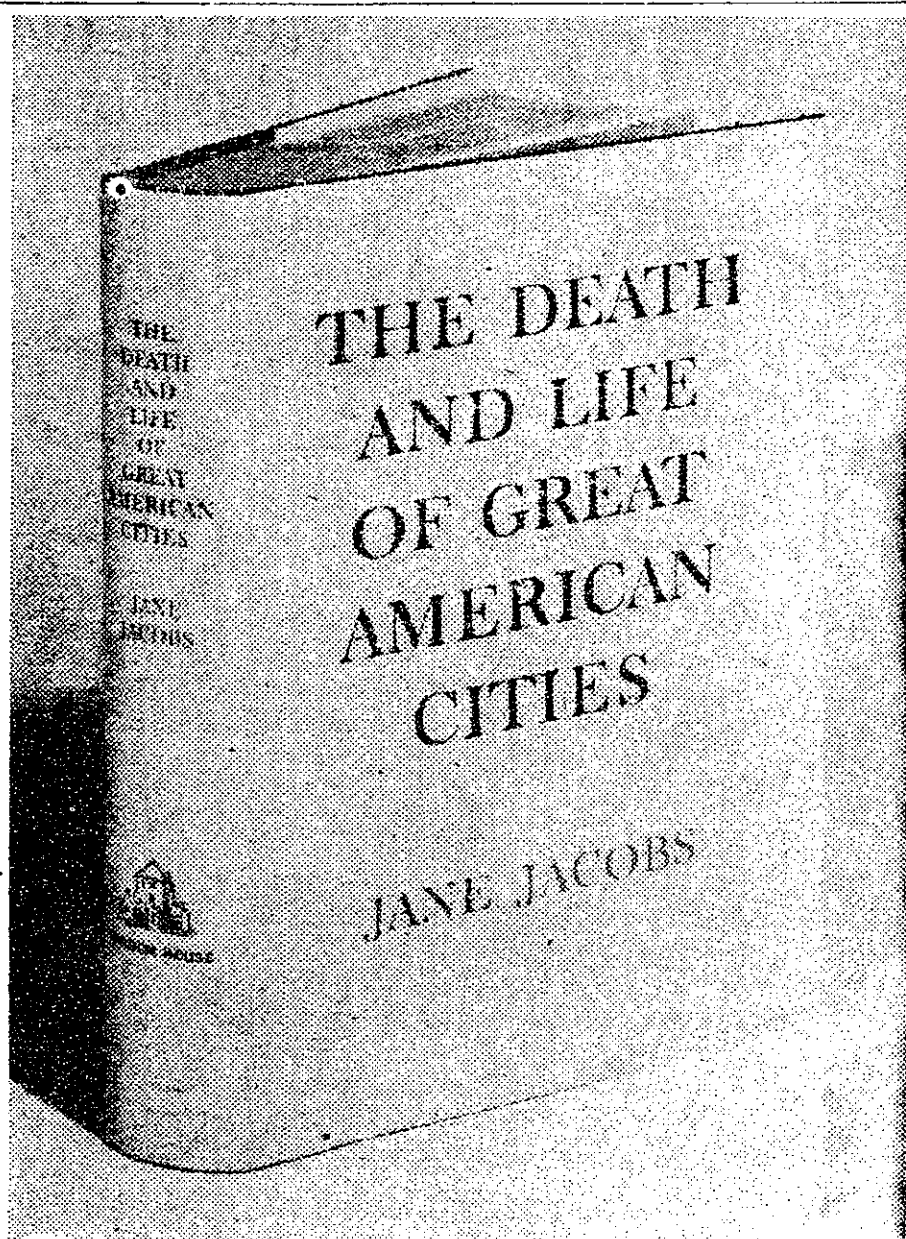
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Tech Coop

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Fund Passes \$48 Million Mark

(Continued from Page 1)

The announcement of the major new interdepartmental research and teaching center for materials was made at a luncheon at the Algonquin Club, Boston, given by members of the MIT Corporation for a group of leading Massachusetts business, industry and government leaders, including Governor John A. Volpe and Cambridge Mayor Edward A. Crane.

John Wilson of the MIT Corporation and Chairman of MIT's Second Century Fund reported that the fund has passed the \$48 million mark. The total sought is \$66 million. The Materials Center is one of five major interdisciplinary centers for research and graduate study to be financed through the Second Century Fund.

Speakers at the Monday luncheon, who included Governor Volpe and Mayor Crane in addition to officers of the Institute, emphasized that success of

the Second Century Fund is vital to MIT as the Institute seeks to meet the growing challenge of superior education in science and engineering in an increasingly complex world. At the same time, they said, success of the fund is of economic importance to New England, particularly to Boston and to Cambridge, because of the important economic role the Institute plays here—both directly through employment and spending and indirectly through industries that locate here because of MIT's facilities.

Dr. James R. Killian Jr., Chairman of the MIT Corporation, and Dr. Julius A. Stratton, president, stressed the importance of these new research centers to the industrial growth of New England. The economic impact of such centers, they said, has been dramatically demonstrated by MIT's Research Laboratory of Electronics.

Harvard Law School Forum Speaker: Dr. Leo Szilard
Professor of Biophysics, University of Chicago

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Topic: "ARE WE ON THE ROAD TO WAR?"
Moderator: Professor Don K. Price

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183 Profs Protest Shelters

(Continued from Page 1)

call on President Kennedy to "lead the nation forward on a race towards peace."



Professor S. Luria

In a conversation with Professor William Schreiber, one of the initiators of the letter, *The Tech* asked what steps the signers of the letter had directly in mind. Prof. Schreiber said that "Just stopping the present program would help. It gives people a false sense of security."

He thought that the Civil Defense people have greatly underestimated the damage that would be caused by a large nuclear weapon. Prof. Schreiber went on to say that he thought the current set-up in New York, as proposed by Governor Rockefeller was foolish, appropriating only one hundred thousand dollars out of many millions to study the need for a shelter program.



Professor Charles Coryell.

The committee has received well over 400 letters, with response overwhelmingly favorable to the letter. They have also received contributions approaching \$700. There has been no response from the White House.

The MIT signers of the letter are: F. J. Adams, city planning; Warren Ambrose, mathematics; Corrado Baghini, biology; George Beked, physics; Eugene Bell, biology; Aron Bernstein, physics; John Buchanan, biology; John Bosson, finance; Michael Brower, industrial history; D. E. Curritt, geology and geophysics; Norm Chomsky, modern languages; E. P. Catalano, architecture; John F. Cochran, physics; Charles D. Coryell, chemistry; F. A. Cotton, chemistry; James E. Darnell, biology; Murray Eden, electrical engineering; David J. Epstein, electrical engineering; Bernard T. Feld, physics; Herman Feinbach, physics; Stephen J. Gendzier, modern languages; Marvin E. Good, architecture; Glen E. Gordon, chemistry; Myron J. Gordon, industrial management; Bernard S. Gould, biology; Cecil E. Hall, biology.

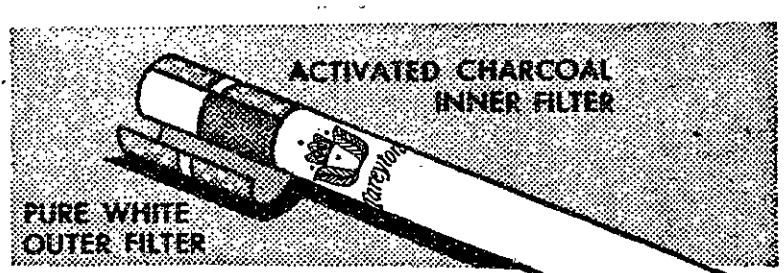
Alfred E. Harper, nutrition; Edward Herbert, biology; John T. Howard, city planning; Vernon M. Ingram, biology; William L. Kraushaar, physics; Bertram Kostant, mathematics; Leslie Leifer, chemistry; Jerome Y. Lettvin, biology; Cyrus Levinthal, biology; M. Stanley Livingston, physics; Arthur L. Loeb, electrical engineering; Salvador E. Luria, microbiology; Kevin A. Lynch, city planning; Boris Magasani, biology; Samuel J. Mason, electrical engineering; Douglas McGregor, management; Ronald Metzack, psychology; Franklin P. Peterson, mathematics; William H. Pinson Jr., geology; John Rawls, philosophy; Phillips W. Robins, biology; Lloyd Rodwin, land economics; Bruno E. Rossi, physics; William F. Schreiber, electrical engineering; Irving Singer, philosophy; Irwin W. Sizer, biology; Cyril Stanley Smith, institute professor; Louis H. Smullin, electrical engineering; Andrew D. Steady, industrial management; Patrick D. Wall, biology; David E. Waugh, biology; George W. Whiteshead, mathematics; Norbert Wiener, institute professor; John W. Winchester, geology and physics; Victor H. Yngve, electrical engineering.

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Opportunities In Peace Corps

Opportunities in the Peace Corps will be the subject of a discussion to be held on Monday, Nov. 20th.

The meeting will be at 4:30 in the Vanever Bush room and is being sponsored by the Foreign Opportunities subcommittee of Incomm.

How They Did

- Sailing:**
Third in Fowle Trophy regatta.
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Huntington 36, Northeastern 41, MIT 69, Tufts 80 (F).

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All-Tech Swim Saturday

Saturday night at 8:00, the annual All-Tech Swimming Championships, one of MIT's most colorful spectacles, will be held at the Alumni Pool. Time trials will begin at 1:00 Saturday, to determine the top six entries in each event.

The meet is open to any undergraduate, graduate student, faculty member, or staff member at MIT. Both class trophies and individual medals will be awarded. Since faculty and graduate students compose a single team, five squads will battle it out for class laurels.

The first three finishers in each event and the members of the first three relays will receive medals, while the fourth through sixth finishers in each event or relay will receive ribbons. These awards will be presented by Mr. Ross H. Smith, MIT Director of Athletics.

Scoring is as follows: 7 points for winning an event, 5-4-3-2-1 points respectively for second through sixth places. The points awards will be doubled for the two relay events.

The class of 1962 has won the meet for the last three years, and is seeking an unprecedented fourth straight win. However, strong graduate and freshman teams promise to make this the closest and most exciting meet in years.

Several varsity record-holders will enter the meet; it is very likely that some MIT records will fall, as they often have in the past. The 50 and 100 yard freestyle events, won last year by Roger Cooke '62, will be a close race with Joe Schrade '63 and Wayne Matson '64 as the top contenders.

The distance freestyle events should see the most exciting races of the evening with possibilities of new records by: Jed Engeler '62, swimming team captain; Dave Stein '62, varsity record-holder; and graduate Tony Silvestri, former team captain and last year's 440 winner.

Tom Ising '62 will be the man to beat in the 100 yard butterfly, with Ron Matlin '63 and Mike Todd '64 the chief contenders. In the 200 yard backstroke Tim Sloat '63 and John Martins '64 are expected to vie for honors.

The title in the 200 yard breaststroke will be fought over by Charles Einolf '63 and John Cervenka '62.

The 200 yard individual medley will be a wide open event. Lauren Sompayrac '63 and Dave Carey '62 head the list of entries, but any of several other swimmers could score an upset.

In the one-meter competitive diving, there are talented entrants from all classes, and any could walk off with top honors. Among those favored are graduate Dave Cahlander, Bill Bails '62, Lou Thompson '63, and Bob Bauman '64. The class of 1965 is expected to enter a strong team and could challenge the favorites in any of the events.

Besides the eleven competitive events, there will be a few exhibitions. The Wellesley Swim Club will perform a water ballet; there will be a diving exhibition from the three-meter board by one of the outstanding divers in the east; in addition, there will be some comic diving to lighten the evening.

Entries for the meet are still being accepted; forms may be obtained at the swimming pool or at the Swim Club booth in building 10. The deadline is 5:00 Friday. All swimmers must report to the pool by 12:45 Saturday.

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Introduction To Sports

Sailing

By Bob Gray '64

Intercollegiate sailing is a combination of skill, knowledge, ingenuity, and experience. The main object is simple enough: being the first to sail around a fixed course. The many intricacies involved in finishing first are what make sailing the fascinating and popular sport it is today.

Every sport must have its rules; yacht racing is no exception. Were it not for a set of specific right-of-way rules, racing would be only collision and chaos. Before the rules can be learned, one must learn the terminology explaining them.

A yacht sailing a certain course is said to be on a tack. The windward side of a yacht on a tack is the side from which the wind blows. The leeward side is the other side, to which the sail "carries." A yacht is on a starboard or port tack corresponding to the leeward side; for example, a yacht carrying its sail on its right side is said to be on a starboard tack.

When a boat is turning from one tack to another in such a manner that the wind crosses the bow of the boat, it is "tacking." When it turns so that the wind crosses the stern, the yacht is "jibing." A yacht with the wind directly behind it is "running before the wind", while a yacht sailing as nearly as possible into the wind is sailing "close-hauled", or "beating". A yacht sailing between these two positions is "reaching".

While racing, the basic right-of-way rule is that a port-tack boat must give way to a starboard-tack boat. If both yachts are of the same tack, the one sailing a course farthest off the wind must give way to a more close-hauled boat. A boat that is "overlapped" to windward of another must keep clear. (An overlap means that one yacht's

bow crosses a line drawn through the stern of a boat ahead and perpendicular to the center line of the boat ahead.

These are the basic right-of-way rules; to summarize the entire set of rules would take a few pages, since they cover many involved situations. A good working knowledge of these rules is needed to race, as one must always know what his rights are in any situation. Think of twenty boats trying to round the same mark at the same time; clearly, this could easily be complicated and chaotic.

The races themselves usually consist of four basic parts: the start, beats, runs, reaches, and the rounding of marks. Each part has its own pertinent right-of-way rules and tactics. For example, at the start, if a boat

can start to windward of the others he will have a clear wind and can get out in front; while beating, if a boat can stay to windward of another boat, he will get the same windshifts and should then always stay ahead of the boat to leeward; while running, if a boat gets directly behind another he can block the wind flow on the sail of the boat ahead and thus gain on him. Many books have been written on such tactics, but the best way to learn is by considerable practice.

There are many scoring systems for yacht racing, but the principles are usually the same. In each race a yacht will usually get one point for starting, one for finishing, and a point for every boat he beats. If a yacht commits a foul, i.e., fails to obey a right-of-way rule, he may be protested. Valid protests cause the yacht to lose all his points for that race.

In intercollegiate races, there are usually two divisions, each school having one dinghy in each division. Each division sails a number of races; the school with the highest combined score of its two skippers wins.

Besides dinghies, the Tech sailors have sailed 24-foot raven sloops, 44-foot Naval Academy yawls, and many others.

The combination of skill and intelligence needed in yacht racing continue to make it a popular sport at MIT, and Tech continues to field some of the top teams in the country.

Riflemen Edge Harvard In First Meet Of Year

The rifle team got its season off to a shaky start with a close victory in a three way match with Harvard and Wentworth on Friday, Nov. 10.

MIT fired a 1395 score, Harvard a 1381 and Wentworth a 1350 in a match that required seven hours to complete on MIT's small range. The Tech score of 1395 was well below last season's team average of 1426.

MIT's top five shooters were Al Gleim '62, 289; Joe Wyatt '62, 281; Jerry Skinner '63, 276; Bruce Peterson '63, 275; and Richard Ludeman '63, 274.

The team expects that all individual scores will be in the 280's in Saturday's match with New Hampshire.

On Deck

Sunday, Nov. 19

Sailing at Coast Guard for Hoyt Trophy.

Monday, Nov. 20

Cross-country in Easterns, Franklin Park, 2:00.

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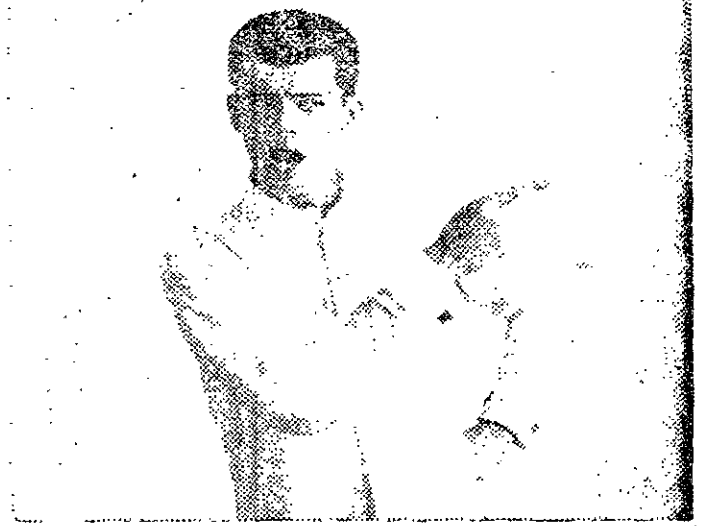
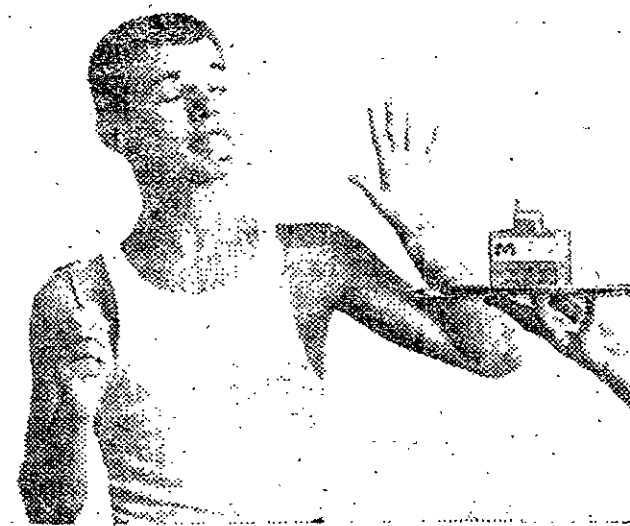
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*



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Four Top IM Basketball Powers Remain Unbeaten

By Warren Anderson '65

After two full weeks of intramural basketball, four teams in the Major Division remain undefeated. The Alpha Tau Omega "A" team and the Burton House "A" team lead the American League with identical records of three wins and no losses, while in the National League the Graduate House "A" team and The Old Guys are on top with records of two wins and no losses.

In recent American League play the Alpha Tau Omega "A" team edged by a greatly improved Lambda Chi Alpha team 44-42 and then soundly defeated Pi Lambda Phi 43-24. The Burton House "A" team defeated Sigma Alpha Mu 39-32 and the Graduate House "B" team 50-40 while the Graduate Management Society defeated the Graduate "B" team 58-35 and the Senior House "A" team de-

feated Pi Lambda Phi 29-21. National League play saw Phi Delta Theta losing to Beta Theta Pi 29-21 and The Old Guys winning over Sigma Alpha Epsilon in an extremely tight battle 38-36. In the final two games The Graduate House "A" team defeated the Gross Nationals 46-34 and Sigma Chi defeated the Theta Chi "A" team 35-33 behind some fine play on the part of Win Martin.

defeated Phi Sigma Kappa 34-30 and Phi Sigma Kappa then beat Tau Epsilon Phi 42-26. In the Pacific Coast League, Alpha Epsilon Pi "A" defeated the Atomsmashers 40-32 and Phi Kappa Theta 53-21. Turning to the A Division, Bemis 5th beat Bemis 2nd 23-21, Hayden 2nd defeated Bemis 4th 38-19, and Hayden 1st beat the Baker House "C" team 38-

26. Chi Phi was defeated by Theta Delta Chi 53-30, Phi Mu Delta beat the Theta Chi "B" team 35-20, and Kappa Sigma defeated the Alpha Tau Omega "B" team 48-16. The Graduate House "C" team defeated the Net Nationals 79-13, Chinese Student Club beat the Walker Dining Staff, 41-20, and the Burton Dining Staff beat the Senior House "B" team 38-28.

IM Basketball League Standings

Major Division	AAA Division	A Division
American League	American Association	Eastern League
Alpha Tau Omega 'A' 3 0	Astronauts 1 0	Hayden 1 0
Burton House 'A' 3 0	Student House 1 0	Burton House 'e' 1 0
Grad. Man. Assoc. 1 1	Baker House 'B' 0 0	Hayden 2 0 0
Senior House 'A' 1 1	Delta Tau Delta 0 0	Bemis 5 1 1
Sigma Alpha Mu 1 1	Zeta Beta Tau 0 1	Bemis 2 1 1
Lambda Chi Alpha 1 1	Delta Kappa Epsilon 0 1	Bemis 3 0 1
Pi Lambda Phi 1 1	International League	Bemis 4 0 2
Graduate House 'B' 0 3	Baker House 'A' 2 0	Southern League
National League	Phi Gamma Delta 2 1	Theta Delta Chi 2 0
The Old Guys 2 0	Phi Sigma Kappa 1 1	Phi Mu Delta 2 0
Graduate House 'A' 2 0	Burton House 'B' 1 1	Alpha Epsilon Pi 'B' 1 0
Beta Theta Pi 1 1	Sigma Phi Epsilon 0 1	Kappa Sigma 1 1
Phi Delta Theta 1 1	Tau Epsilon Phi 0 2	Alpha Tau Omega 'B' 0 1
Sigma Chi 1 1	Pacific Coast League	Chi Phi 0 2
Theta Chi 'A' 1 1	Alpha Epsilon Pi 'A' 3 0	Theta Chi 'B' 0 2
Gross Nationals 0 2	Electronics Sys. Lab. 1 0	
Sigma Alpha Epsilon 0 2	Phi Kappa Theta 1 2	
	Phi Kappa Sigma 0 1	
	Delta Upsilon 0 1	
	Atomsmashers 0 1	

This week's games in the AAA Division, American Association resulted in the Astronauts defeating Zeta Beta Tau 27-23 and Student House defeating Delta Kappa Epsilon 39-26. The five games played in the International League resulted in the Baker House "A" team defeating Tau Epsilon Phi 59-14 and Phi Gamma Delta 41-28, the Fijis having earlier defeated Sigma Phi Epsilon 39-27. The Burton House "B" team

Easterns On Monday

Harriers Top Northeastern; Drubbed In New Englands

By JOHN GOLDEN '65

Last Wednesday in their last quadrangular meet of the season, the MIT Cross-Country team scored a surprise victory over a strong Northeastern team. Unfortunately the Engineers' fortunes turned sour on Monday as they finished fourteenth in a field of fifteen at the New Englands' meet. Next Monday the harriers will compete in the six-way Easterns' meet, where they are expected to do quite well.

MIT's freshmen competed in both meets and will enter the Easterns' as well. On Wednesday, the frosh topped Tufts but lost to Northeastern; they also finished fourteenth in their division of the New Englands.

The varsity win over Northeastern was unexpected, since that team has beaten rivals to whom MIT has lost. Tufts and Bates finished third and fourth in this meet. The final score was: MIT 33, Northeastern 54, Tufts 60, Bates 79.

Leading the way to this victory was Mike Robson '64 who finished second behind Chico Parillo of Northeastern. Mike took the lead for the first 1 1/2 laps of this tough, hilly three at 2 1/2 laps he was still on Parillo's shoulder, but the older, lap course on the Tufts campus, more experienced Parillo put on a terrific finishing burst to beat Robson by about 15 seconds.

Running one of his best races of this year, Tom Goddard '63 placed fifth in this important meet. Tom missed fourth place by only a few seconds, coming close by finishing very fast and closing up the gap between himself and fourth place by about 100 yards. Although everyone on the team ran exceptionally well Wednesday, special credit goes to Larry Feiner '64 for his eleventh place finish. Feiner, usually the seventh or eighth man on the squad, moved up to run fifth man; this is probably what provided the winning margin over Northeastern. Captain Steve Banks '62, and Roger Hinrichs '63, who finished seventh and eighth respectively ran very strong races, especially in the latter half of the race.

In Monday's debacle, MIT was hurt by the big field of 140 runners in each race; those who once fell behind in the pack were unable to recover. Jim Keefe of Central Connecticut State College covered the 4.25 mile course in 21:01, breaking the record of 21:14 set last year. MIT's best runner was Tom Goddard '63, who finished 50th. Among the freshmen, Mike Hester 58th was MIT's top performance.

In last Wednesday's freshman event, Huntington Prep School participated, but did not score against MIT. The final score was: Huntington 36, Northeastern 41, MIT 69, Tufts 80.

Roger Butler and Dave Ku-

perstein ran well on the hilly Tufts course to finish eighth and ninth respectively. Kupperstein, from San Francisco, found the hills on the course to his liking; this was his best race of the season. Roger Butler ran his usual good race. The race was won by Dave Dunsky of Huntington Prep in a fast time of 14:01 over the 2.6 mile course, which was two loops of 1.3 miles each.

Monday, November 20, at 2:00 in Franklin Park, MIT will face Bates, Brandeis, Bowdoin, Central Connecticut, and Tufts in the Easterns' meet. Both varsity and frosh will compete.

The quadrangular meet win gave the Tech squad three more wins, bringing their season's record to six wins and six losses.

Substantial praise goes to all the team members, especially Captain Steve Banks for his good example and competent leadership, Mike Robson, Tom Goddard, Roger Hinrichs, and partially handicapped Chuck Sigwart, all of whom had good seasons. Even more credit goes to Coach Art Farnham, who never lost faith in the team, even though it had its ups and downs. He gave plenty of encouragement to those who needed it, and made the team work as a unit all season.

The freshman squad closed the season with a record of four wins and five losses. This record is not really representative of the team's ability; losses due to injury of various good runners were frequent.

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Meet The Captains

Dave

Koch



By Charlie Smith '63

The MIT single game scoring record in basketball is held by Dave Koch, a 6'-5" senior. Koch, the captain of this year's basketball squad, pumped in forty points against Trinity last year. It is quite probable that if Dave had not injured his knee during his sophomore year he would have broken all MIT career scoring records.

Dave's hometown is Wichita, Kansas but he attended prep school at Deerfield Academy in Deerfield, Massachusetts. At Deerfield Koch participated in basketball, cross country, and track. Dave averaged fifteen points a game on the Academy basketball team which he term-

ed "a very well balanced team". On the track squad, Koch high jumped and pole vaulted. He was elected captain of the track team in his senior year.

Here at MIT, Koch is majoring in chemical engineering. After graduation he hopes to attend MIT graduate school, continuing in chemical engineering.

Besides playing basketball at MIT, Dave is a member of Beta Theta Pi, Beaver Key, and T-Club. Also, as a member of the freshman track team, Dave

broke the freshman pole vault record; he vaulted twelve feet, five inches. Since then, however, basketball has taken so much of Dave's time that he cannot participate in track.

In his freshman year at MIT, Koch maintained a twenty three points-per-game average. Unfortunately, Dave only played five games in his sophomore year before injuring his knee, but last year he averaged twenty four points-per-game on an MIT squad which compiled an eleven and eight record. Thus, in two years, Koch has averaged well over twenty points a game for MIT.

His 24-points-per-game average last year placed Koch within the top thirty scorers in the country; he was the leading scorer in the Boston area. For these achievements Dave was elected to the All-New England first team by the coaches of the Boston area.

Dave is very enthusiastic about this year's team. In fact, he feels that this is the best basketball team MIT has ever had. He says the team is very well balanced, having eight or nine players who will see a lot of action. "Hustling, fighting, aggressive" are words which Koch uses to describe the 1961-62 outfit. They will have to hustle to beat teams such as Union, Wesleyan, Chicago, and Harvard which appear on the schedule.

The highlight of this season will definitely be the Harvard game. Dave says the team has been looking forward to beating Harvard for three years and this is the year to do it.

Due to the large number of students which tried out for the team this year, Dave feels that there is an increased interest in basketball at MIT. However, he would like to see larger crowds at the games. He is sure that the students who turn out for the games will see some good exciting basketball this season.

Tie Collegiate Record

Pistol Sparked By All-Americans

By Howard Ellis '65

From all indications, MIT's Pistol Team is well on its way to the most successful season the squad has ever had. In its first two outings the team has unofficially tied an intercollegiate record and broken a local one.

On October 28, Tech's marksmen competed in the New England Air Force Pistol Championship and finished third with a high expert rating. In this effort MIT compiled 1121 points out of a possible 1200, an unofficial tie for the intercollegiate record. Three days later Coach Robert Durland's pistoliers rebroke the record they set last year in the Greater Boston Pistol League by racking up a total of 1118 points. Thus, with such a start, it is understandable why Coach Durland predicts this squad will be the best MIT has ever assembled.

Three of five starters are returning seniors from last year's team: John Gibbons, Bill McFarland and Tom Isaacs. Team Captain Gibbons consistently turned in strong performances last year and was named to the second All-American Pistol Team. Picking up right where he left off, Gibbons copped high honors in his class at the New England Air Force Pistol Championships. In taking top honors, he defeated a number of sharp marksmen, including his father—one of the top police shooters in New England.

Bill McFarland is the second returning letterman, and was captain last year. At the Intercollegiate Match sponsored by the National Rifle Association, McFarland finished sixth out of a field of 114. He was also elected to the second All-American Pistol Team. Initial performances this year clearly indicate that he is headed for another very successful year.

Last of the returning seniors is Tom Isaacs, who is entering only his second year of competitive shooting. In the 1960-61 sea-

son he regularly turned in creditable performances and will be expected to do similarly this year. Isaacs is also team manager.

A number of sophomores are vying to fill the other two positions. As it stands now, Bob Brooks and Henry Noble will occupy the number four and five starting slots. However, Clarence Krueger, R. B. Melton, and junior Jeff Levinger may at any time break into the starting five.

Robert Durland is entering his second year as coach of the Pistol Team. Last year he led his team to a 12-2 record in the Greater Boston Pistol League, a 1-4 mark in collegiate competition, and a fifth place out of 25 competing schools in the national meet. All collegiate losses were to the service schools—West Point, Annapolis and Coast Guard.

This year he again expects his toughest matches to be against service schools. However, matches with University of Massachusetts, Brown, Villanova and Merchant Marines should not give the Techmen too much trouble.

Durland has been a competitive shooter for 15 years. He was a small arms instructor in the service and is a former president of the MIT Faculty Pistol-Rifle Club.

Sailors Third In Fowle Trophy

Tech's sailors copped third this weekend in the Leonard Fowle Trophy competition, emblematic of New England team racing championship. Navigating the Charles for Tech were Ken Klare '63, Warren McCandless '62, Henry Weil '64, and Mike Lifschitz '63. MIT was shaping up well winning their elimination meets the two previous weeks at the Coast Guard Academy, but luck was not with them this weekend as they took third behind Harvard and Coast Guard.

In the first best of seven round, Tech fell in the seventh race to fall 4-3 to Coast Guard. Sunday Harvard tied Coast Guard at three races apiece and were awarded the verdict on points as darkness forced cancellation of the seventh race. Tech defeated B. U. in the best three out of five races to take third.

Tech's last regatta, the Hoyt Trophy, will be sailed at Coast Guard this weekend. This competition was rescheduled due to high winds at Brown on October 22.