

# Frank Osha Wins UAP Election As A Record 1757 Participate

A record number of 1727 students participated in the undergraduate elections on Tuesday, March 14.

Frank Osha, '62, was elected Undergraduate Association President on the first ballot by an overwhelming majority of over 900 votes. Runner-up was Ed Linde, '62.

About 300 Seniors voted for their officers. Ira Jaffe, retiring UAP was elected President of the Class of '61. Pete Gray is the new Vice President. Joe Harrington and Jerry Grossman are the Secretary and Treasurer respectively. The Executive Committee in order of election are: Tom Hastings, Hank

Schleinitz, Marla Moody, Dorsey Dunn, Garrick Gustafson, and Alan Brennecke.

The President of the Class of '62 is Dick Stein. Assisting him as Vice President is Frank Berlandi. Eric Ippen will be the Secretary-Treasurer. Approximately 300 juniors voted.

Frank Levy was elected President of the Class of '63 by approximately 450 sophomores. Bob Vernon is Vice President while Elliot Bird is Secretary-Treasurer.

### Troutner Elected

The Class of '64 had the largest turnout of voters in this year's election. Over 600 freshmen voted Dick Troutner President of the class. Ron Gilman is the new Vice President. Duncan Miller is Secretary-Treasurer.

Ira Jaffe, former Undergraduate Association President, and now Senior Class President, commented on his new office: "I really hope that I can derive more than just honor from this office, but can do useful work in the interest of the Class of '61."

"Officers of the class and the Executive Committee have already met and come up with at least three ideas which seem promising. The first of these is a cocktail party in the late afternoon of Thursday, June 8, which will provide an opportunity for parents and students to mingle in an informal atmosphere.

### Class Get-Togethers

"We are also considering the possibility of class get-togethers in areas of the country with large concentrations of the members of the Class of '61."

"Summer address listings are also being drawn up and in case the Alumni Register does not include the Class of '61, we plan to distribute a mimeographed address sheet.

"Other less concrete ideas were discussed, and if these materialize, we will inform the members of the class."

Frank Osha, UAP, could not be contacted in time for publication to comment on his future plans.

## Inventor Of Maser

### Dr. Townes To Be New Provost

The appointment of Dr. Charles H. Townes, one of the nation's most distinguished physicists, as Provost of MIT will be announced tomorrow by President Julius A. Stratton. As Provost, Dr. Townes will be the senior academic officer and will share with the President the responsibility for general supervision of the Institute's educational and research programs. The office of Provost was last held by Dr. Stratton from 1949 to 1956, when it became vacant upon his appointment as Chancellor. The position of Chancellor has not been filled since Dr. Stratton assumed the presidency.

Dr. Townes, who will assume his new duties in the Fall, is on leave this year from his post as Professor of Physics at Columbia University and is serving as vice-president and director of research for the Institute for Defense Analyses in Washington, D. C., a non-profit organization operated by MIT and eight other universities.

Dr. Townes, 45, was born in Greenville, S. C. His undergraduate studies were at Furman University, in Greenville, where he received both a B.S. degree in physics and a B.A. in modern languages in 1935. He received a master's in physics at Duke in 1937 and his doctorate at the California Institute of Technology in 1939.

A member of the technical staff of Bell Telephone Laboratories from 1939 to 1947, he did extensive work during World War II designing radar bombing systems and working in the then emerging field of microwave spectroscopy.

Dr. Townes was appointed



Dr. Charles H. Townes

associate professor of physics at Columbia in 1948, professor in 1950 and served as executive director of the Columbia Radiation Laboratory from 1950 to 1952 and chairman of the physics department from 1952 to 1955.

His work on masers, for which he holds the fundamental patent as well as numerous awards, was a leading part in widespread research effort that

(Please turn to page 9)

## Closed Sessions Reports

### Convocation Scheduled

As the students' formal observance of the MIT Centennial, a special convocation will be held Monday, April 10, at Kresge Auditorium during which Centennial Week's closed conferences will be reported upon.

President Julius A. Stratton will introduce the master of ceremonies, tentatively scheduled to be Dr. Jerome Wiesner. The afternoon's speakers will be Max Franklin Millikan, Walter A. Rosenblith, Elting E.

Morison, and Martin Deutsch. They will report to the student body the results of the four closed conferences scheduled for the week.

Millikan, professor of economics, is a member of President Kennedy's Science Advisory Board; Rosenblith is a professor of Communications Biophysics. Morison, a professor of Industrial Management, is a Fellow of the American Academy of Arts and Sciences and is also the editor of *The Letters of Theodore Roosevelt*. Deutsch is a professor of physics and is the chairman of the directive committee of the MIT Laboratory for Nuclear Science.

Wiesner, formerly the director of the Research Laboratory of Electronics, is presently a scientific advisor to President Kennedy. He is the chief of the four closed session reporters.

Some question remains as to whether Wiesner will be able to spend an extra day in Boston for the convocation.

### 'Operation Abolition' To Be Shown Today;

"Operation Abolition," the much publicized film of the House Committee on Un-American Activities is to be presented today in room 10-250 at 4 p.m.

Following the showing, which will last 45 minutes, Mr. Fulton Lewis, a former member of the committee, will conduct a question and answer session until 6 p.m.

The presentation is sponsored by the MIT Young Republican Club. Mr. Lewis is presenting the film at colleges all over the country.

The film is a commentary on student riots in California, which the committee purports were Communist instigated. Some committee proceedings are also shown in the film.

The film has aroused much criticism from those who think it biased and not a true representation of what they contend actually occurred in the riots.

## Las Vegas Night Success



Baker House residents and their dates enjoyed the thrill of losing thousands of dollars each to the house in assorted games of roulette, dice, poker, and other games of chance in "Las Vegas" last Saturday night. — photo by Curtiss Wiler '63

## Kahn To Speak On Nuclear War; Views Start Student Controversy

A war of words is scheduled for the physics lecture hall, 26-100, tomorrow night at 8 p.m. The controversial physicist, RAND Corporation analyst, and author, Herman Kahn, will speak "On Thermonuclear War—Thinking about the Unthinkable" under the auspices of the Lecture Series Committee.

In his recent book, *On Thermonuclear War*, Dr. Kahn has sought to analyze the possible effects of a thermonuclear war and to outline some actions which might be taken to mitigate the effects of such a conflagration should attempted deterrence fail. The harsh and realistic terms which he uses in doing this infuriate many readers. Despite the "awful" state of the planet after a nuclear war, however, Dr. Kahn does not believe that it would end human existence. While the world would remain hostile to human life for tens of thousands of years, life could nonetheless survive to some extent and go on with the job of "re-cuperation and reconstruction."

Herman Kahn is also famous for his hypothetical "Doomsday," "Doomsday-in-a-Hurry" and "Suicide Pact" machines, which he uses in analyzing the

strategy of deterrence. "On Thermonuclear War" uses graphs and figures to set forth his view of a strategy for thermonuclear war. Some of these controversial views have been expressed in his article in the fall issue of "Daedalus," which was devoted to problems of arms control.

Organized opposition to Dr. Kahn's views has already emerged in Prof. Lincoln P. Bloomfield's 14.59 class on disarmament. Daniel Brand, a graduate student, has taken the lead in a movement to assure that a balanced presentation is made to the audience, Thursday night, and other requests for rebuttal time have been made.

## At Centennial

### Four Students On Panels

Four MIT students will be a part of the 100 conferees who will participate in the International Conference on Scientific and Engineering Education sponsored by the Institute on April 3 through 6 as a part of the centennial celebration.

The conferees consisting for the most part of world leaders in education and research administration will be divided into four groups. Jamie DeSola, an MIT graduate student in Political Science will be a part of the group discussing Problems of Scientific and Engineering Education in Newly Developing Countries.

Jeff Steinfeld, '62, will participate in the conference on the Problems of Scientific Engineering Education in Countries with More Advanced Technology. Dave Ness, a senior in Course XV, and MIT's only Rhodes Scholar this year, will attend the discussion on the Inter-

action of Science, Technology and Society.

The conference on the Implications of Science and Engineering for International Relations will be attended by Peter Bankson, a senior in Course XIV.

The student conferees were chosen for their interest and aptitudes in the fields under discussion. Several of them have written or are writing theses on these fields. The undergraduate participants will be accorded regular conferee privileges including reserved seats to all centennial affairs.

The main purpose of these conferences is to generate new ideas on these pressing world subjects. The conferences will be closed to all but a few world educational leaders and will not be recorded except for an overall summary which will be published later.

## INDEX

Editorial	4-5
Entertainment	3, 6, 7
Sports	9-12
MIT Reactor	3
Techretary	8
Table Tennis	11
Judo Club	12

## B.U. Band To Perform At School of Fine Arts

The Boston University Symphonic Band will perform tomorrow, March 23, in Boston University's School of Fine and Applied Arts Concert Hall at 8:30 p.m. under the direction of Lee Chrisman of Newtonville, associate professor of music and director of University bands.

There is no admission charge, so Tech students (exclusive of Freshman because of quiz) should be able to attend. In the past the Symphonic Band has done a fairly nice job and ought to be able to retain this reputation in this performance.

— Kraig W. Kramers '64

### For Sale

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Reading, Mass.

## Permanent Chairman Posts Are Open for Nominations

Permanent chairmen of the following committees will be nominated Thursday, March 23: Finance Board, Public Relations Committee, Secretariat, Student Committee on Educational Policy, Freshman Coordinating Committee, and International Program Committee.

Interested persons should contact Frank Osha, UAP, or any member of the Institute Committee. Late nominations will be accepted.

### SCEP

The Student Committee on Educational Policy will hold a smoker for interested freshmen and sophomores next Tuesday, March 28, at 5:00 P.M. in the Vannevar Bush Room, 10-105.

Boston's Museum of Science says that Irish moss, the purple seaweed that turns white when bleached, makes a very delicious pudding called seamoss farine.

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John Burchard and Albert Bush-Brown

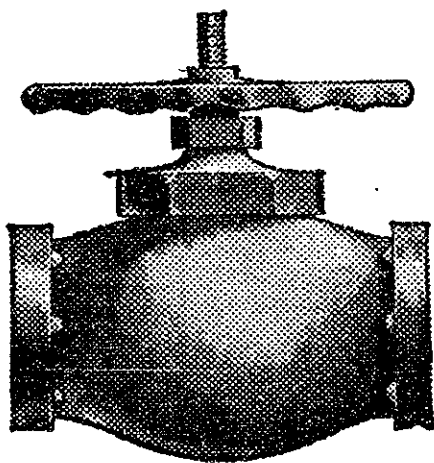
THE ARCHITECTURE OF AMERICA is an imaginative and eloquent contribution to the study of American civilization. It relates our architectural achievements of three centuries to the entire cultural and social framework of American history. John Ely Burchard, Dean of Humanities and Social Sciences at M.I.T., and Albert Bush-Brown, Assistant Professor of Architecture at M.I.T., show the influence of changes in technology, in economics, in the growth of our cities and the climate of intellectual opinion upon architecture. They discuss the innovations of such men as Frank Lloyd Wright, Mies van der Rohe and Eero Saarinen, and the problems of architecture and social organization which confront us today: whether we will accept the need for city planning, whether the arts can survive the taste and choice of public officials, and whether architecture can find a meaningful relation with the other arts.

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# MIT Reactor Used Successfully For Brain Tumor Research

MIT and the Massachusetts General Hospital have announced jointly that eight patients with malignant brain tumors have been treated by neutron therapy at the Institute's Nuclear Reactor.

**Began Last Year**

A new technique has been used in the treatments, all of which were under the direction of Dr. William H. Sweet, neurosurgeon at MGH. In this technique, the skull is opened surgically to expose cancerous tissue to radiation touched off by a beam of neutrons emitted in the process of atomic fission in the reactor. The first of these patients was treated in November, 1960. Several years ago Dr. Sweet and his co-workers conceived this type of therapy and administered treatments at the Brookhaven National Laboratory reactor on Long Island. Operations at the reactor have involved two teen-aged boys, two men and four women.

**Boron Injected**

Treatment is based on the knowledge that certain boron compounds within cancer cells



A surgeon uses a plumb bob to line up the exposed brain tissue with the neutron beam source.



Surgeons preparing a patient for exposure to the neutron beam in the operating room directly below the reactor. The window through which the photo was taken is a four-and-one-half foot thick tank filled with zinc bromide solution.

in the brain after being injected into the bloodstream. The concentration takes place because normal brain tissues form a "barricade" against the boron. When neutrons emitted by the reactor are directed into the tissue area in which the boron is concentrated, they cause the boron atoms to emit alpha particles that have energy of 2.4 million electron volts. Since the alpha particles travel only about four millionths of an inch, their destructive power is limited almost exclusively to the cancerous tissue.

**Gold Foil Inserted**

Although the entire operation last five to seven hours, the period of irradiation is the key factor. The MGH operating team first opens the cranium (which has been originally opened at MGH two to three weeks previously for surgery to remove the main portion of the tumor) and places tiny gold foils and wires at various points within the exposed brain. These are recorded by an assistant as to number and location. The

gold foils are neutron absorbers which are removed following irradiation treatment and then studied for a count of the number of neutrons being emitted.

**Raised To Ceiling**

By late morning, the patient is ready for irradiation treatment. He is positioned so that his exposed brain is in line with the neutron beam opening in the ceiling of the medical room. The operating table is raised to the ceiling by hydraulic pressure. A collimator is attached to the skull and fitted against another collimator attached to the ceiling. Bags of neutron-absorbing lithium fluoride are placed around the outside of the collimators to protect other areas of the body from the beam.

**Healthy Tissues Unharmed**

The patient remains alone in the medical room while the irradiation process is taking place. All necessary controls are handled by monitoring devices in a sterilized area just outside the medical room. Even the anaesthesia is continued



A nurse from MGH observing the patient through the observation window into the sealed operating room. The patient's reactions must be monitored in this room, from where his environment is controlled.

through remote control. A window allows observation of the patient throughout treatment. Irradiation takes between 30 and 45 minutes. During the process, the brain is "flooded" with neutrons, but because about five times as much boron compound is concentrated in malignant as in healthy tissue, the alpha particles destroy only the cancer cells, leaving neighboring healthy brain tissue relatively untouched. The MIT Reactor is operated at maximum power by regular staff members throughout the entire operation period. While an operation is being performed in the medical room of the Reactor, other non-medical work is carried on normally. Several projects may be in progress on the main floor of the reactor as treatment goes on in the room below.

**Blood-Brain Barrier**

In this relatively new process of neutron-capture therapy, a number of previously unencountered situations have arisen. For instance, in many bodily organs there is little difference in the permeability of tumor and adjacent normal tissue by a variety of chemicals, but in the case of the brain there is a marked difference. The brain is selective in the types and structures of materials which may penetrate it, but in the brain tumor this selectivity is altered. Many substances which do penetrate the tumor rapidly are unable to enter the brain; this phenomenon is called the blood-brain barrier. It is necessary to wait two or three weeks following surgical removal of the main tumor to enable this barrier to build up again before the irradiation treatment can be performed.

**Remote-Control Methods**

To accomplish anesthesia and monitoring which could be ap-

plied from outside the medical therapy room, a team of specialists, utilizing an anesthesia machine from England and a special anesthetic breathing valve from Denmark, devised remote control methods. The equipment was chosen because it enables the patient to breathe anesthetic gases and oxygen supplied from a distance without increasing respiratory work. The patient can expire metabolic gases directly into the therapy room where they can be of no harm to him. Electronic monitoring of brain waves, electrocardiograms and blood pressure affords the anesthetic team the information that is needed about the patient's physical condition during the irradiation, although the anesthetist is physically removed from the patient.

**Rocket Fuel?**

An interesting sidelight: one of the boron compounds which may be used for future injections of patients in the irradiation method is a nontoxic boron hydride which is also being considered for use as a rocket propellant.

**Museum of Fine Arts Schedules Exhibitions**

The Museum of Fine Arts in Boston announces several exhibitions in its galleries this month. Among the more prominent are the Exhibition of The Art Treasures of Thailand, the Zapf Exhibition, and The Passion according to Martin Schongauer.

These special exhibitions plus lectures, gallery talks, and events will be at the Museum through mid-April in most cases. Film programs and other art-expression forms are also often presented; check the Museum's schedule if you are interested!

Kraig W. Kramers '64



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Deadlines: Advertising—noon Thursday. Entertainment, Features, Letters to the Editor, Photography, Sports—noon Sunday, News—7 p.m. Monday.  
Makeup: Editorial, Entertainment, Sports—1 to 4 p.m. Sunday. News—7 to 11 p.m. Monday.

Unsigned editorials appearing in THE TECH constitute the opinion of the newspaper's Board of Directors, and not that of MIT. The newspaper welcomes letters from its readers. Space permitting, such letters will be printed in whole or in part, if deemed by the editor to be of sufficient interest or benefit to the community. Brevity increases the chance of publication. Anonymous letters will not be printed. Names will be withheld upon request.

Office Hours: Mon. 1-3, 7-11; Tue. 10-12, 1-1:30; Wed. 1-3; Thurs. 11-12; Fri. 1-3; Sun. 1-4

## Voting Aftermath

The new slate of class officers has been elected for the coming year, including the permanent officers of the class of 1961. On the whole, the selections of the various classes have been wise, and we expect competent, if not spectacular work from all involved. The President of the incoming Senior class, Dick Stein, will be faced, along with his fellow officers, with the responsibility for next year's Senior week. Frank Levy, as President of the class of 1963 will likewise be faced with the task of the Junior Prom, as well as the other demands of student office. We wish them all well.

The Tech is naturally pleased that Frank Osha was chosen Undergraduate Association President. Mr. Osha received our endorsement because he appeared to be the candidate most likely to bring to the office the vigor and energy necessary to represent the student body. The UAP is not one of those offices that carries intrinsic influence to any great degree; it is instead, an office directly affected by what its holder wishes to make of it. Mr. Osha has our best wishes. No doubt we will disagree with him in the future; there is room for disagreement at MIT, and we hope the students, as well as Mr. Osha and *The Tech* will make known their opinions.

## Lecturers—2

Last week this page carried a portion of a recent report made by the Student Committee on Educational Policy concerning comments and criticisms of the lecturers in freshman courses. The most striking part of the report was that the lecturers (Chemistry in this case) were named, with representative freshman comments. *The Tech* realized, before making the decision to go ahead and list names, that this was a radical step, something that has apparently never been done before at MIT. We tried to make clear the objectives we had in mind in printing this report.

The idea was not to make good reading copy; we felt that something constructive would come of making the SCEP report public. The committee had distributed the report to all the lecturers involved, and to the respective department heads; subsequently, the chairman of the committee received no response from anyone. As far as the committee was concerned there was no way of knowing if the report had even been read, much less acted upon. *The Tech* felt that this report could be too conveniently buried, and forgotten.

It has been our belief, and it is still our belief, that the departments have very little means of keeping tabs on individual instructors. They seem to believe in some form of osmosis, hoping student opinion will somehow creep up to them. The presence of so many poor instructors teaching freshmen would seem to be an indication that this method does not work. The last place to put a poor instructor is in a freshman course; the problems of adjustment to MIT that most new students must face are certainly not made easier by dull, condescending,

unprepared instructors. Furthermore, as was stated last week, the high rate of tuition leads us to believe that the student has a right to his money's worth from his instructors—something many students feel they are not getting. There aren't many worse tortures than having to sit through a dull, time wasting lecture three hours a week for fifteen weeks. People have had far worse thoughts about some of their instructors than ever appeared in *The Tech*.

It has been suggested that running instructors' names was improper, that it somehow destroys the dignity of the teaching profession. A man's professional research, however, undergoes public criticism. If a man is an incompetent scientist, or incompetent writer, he will soon find out. If he is an author he is liable to find out via the pages of a metropolitan newspaper. Teaching is supposed to be a major part of man's responsibility at MIT. Should it not then be as subject to criticism as research, or are classroom activities somehow so sacrosanct that they are not open to question?

As Professor Mattuck states, in his letter appearing on this page, the teaching process is a complicated one. There are however still standards of competence and incompetence. We are not claiming that the best lecturer is the slickest lecturer, but that most students do gain something from well presented material. Exasperating and angering students is one pedagogical method, but not, we think, the best one.

There have been indications that certain men will refuse to teach freshmen next year, and not just those instructors who have received adverse criticism. This means that these instructors are unwilling to undergo any kind of criticism from their students; they apparently hold themselves to be above reproach or comment. Perhaps this report was long overdue.

Lastly, the report was put together by a student committee; should it not then be available to students? If the contents of the report were news to the departments then this is a tacit admission that their own means of instructor evaluation are not working. *The Tech* has no intention of making a permanent fixture of faculty criticism as does the Harvard *Crimson*. We are not out to "get" anyone, or to embarrass anyone. If this report will stir the departments to improve their teaching staffs we feel we shall have accomplished something. If nothing happens however, perhaps serious consideration should be given to making an annual survey of all courses and instructors.

Professor Mattuck voices the strenuous objections of the faculty, or part of the faculty, to the printing of public criticism. Since our intent was to be constructive, not to shellshock, or merely to provide good reading, we are willing to withhold the SCEP report. This does not mean however, that we definitely will not continue; on the contrary, all the reasons given for making the report public are still valid. Our decision to go ahead, or to further withhold the report will depend upon the opinion received by this newspaper in the coming week. The response of the faculty has been disappointing; Prof. Mattuck's communication is the only instructional response received by *The Tech*. If this reflects the opinion of the faculty, students, and administration we do not know.

For this reason we are suspending publication of the report pending further comment. We look for constructive comment on the part of the faculty, and for steps to be taken to improve communication between student and department. Otherwise, we will seriously consider continuing with the remainder of the lecture evaluations.

## Material Value

The ingeniously interesting exhibit in Building Seven of Metallurgy and Materials Science at MIT is a welcome example of an Administration attitude often obscured within the school: that of informing the MIT community, including undergraduates, of all aspects of MIT endeavor. There are several courses which are little known except to the students involved; undoubtedly they have as rich an offering as Course VIII. We only hope their exhibits are as well presented.

Introduced by the legend "Age of Stone, Age of Bronze, Age of Iron," the presentation builds around the fact that this is the Age of Materials, many and varied, as opposed to former Ages dominated by one. The exhibit ranges from examples of materials and their uses to demonstration of techniques of investigation. There are examples of alloys and descriptions of properties, one well-worn example of which is a friction-spark-producing hemisphere.

To one side is a television view of stress

(Please turn to page 7)

## Letters:

To the Editor:

The Tech saw fit to publish last Friday a report on the Freshman Chemistry lectures, prepared by the Student Committee on Educational Policy and based on questionnaires returned by about half the freshmen. It seems to me that both the action of the committee in making this report quasi-public and of *The Tech* in actually publishing part of it were based on a misunderstanding of both academic realities and proprieties.

Let us grant at the outset that students would like to be well-taught that the faculty has a responsibility to see that they are, and that some form of student criticism is not out of order. Perhaps some of my colleagues would not even go so far, as this; still it seems to me a fair enough position. But even conceding it, this sort of public detonation can only aggravate the very condition it is designed to correct. Matters involving teaching are delicate and sensitive ones, and a long Western tradition gives all the power here to the administration and faculty. It follows that if students expect to exert any influence, it will have to be done quietly and tactfully, so as not to force the administration into an inflexible position of pride. The folly of summit conferences and "open covenants openly arrived at" is fresh in everyone's mind; what is needed here is quiet action behind the scenes and not public confrontations. The experience of Harvard and Princeton, both of which have course-ratings regularly published by the newspapers, amply bears this out: the faculty pays little or no attention and in both institutions poor professors have been teaching the same elementary courses for years and getting the same criticism year after year.

In short, what above all is wrong with public criticism is precisely that it is public when there is no reason for it to be and every reason for it not to be. Faculty members who are good teachers but sensitive individuals will resent this report and the presumptions that lie behind it. Some have already requested not to have to teach courses that will be publicly rated. A course rating is properly the concern of the lecturer (who is always free not to look at it), and possibly the department chairman, and maybe a dean, but surely no one else. This brings me to my second point—publication not

only has exactly the wrong effect because of the antagonism created, it is inherently improper as well.

In essence it reduces the faculty member to the level of a paid entertainer, who puts on a show and expects to be judged by it. A lecture is public, but it is not a "performance." The lecturer is not active and the students passive—it is a two-way process. No amount of superb lecturing will in itself teach a student how to acquire the discipline of learning a subject, and this is after all what he is here for. The student's outcry to the contrary, he is not paying ten dollars a lecture; he is paying for the privilege of belonging for four years to the complex network of activity that makes up a university, and to trivialize this activity by considering the education it aims at to be nothing more than a never-ending sequence of lectures is surely naive. Doctors and law-

(Please turn to page 8)

To the Editor:

I should like to congratulate THE TECH on its new format and its greater coverage of newsworthy events on campus. I am extremely sorry, however, to find that the first edition printed in this new format contains an editorial which I consider to be in very poor taste.

The article to which I refer is the coverage of the report of the Student Committee on Educational Policy. It was my understanding that results of the questionnaire prepared by SCEP were to be used by the departments and the individual instructors as a guide to improving the quality and efficiency of their courses. I do not see how the publication of this report can do anything but hinder the attainment of this goal.

It is my contention that the publication of personal criticisms of individual instructors can only serve to create self-consciousness on the part of the professors and disrespect on the part of the students. Certainly this kind of a classroom atmosphere is not conducive to the learning process. In short, I believe this series of articles carries with it the vulgarity of VooDoo with somewhat less of the "humor."

I hope you and your staff will see fit to rectify this journalistic error by cancellation of the remainder of the series and inset in its place some of the good coverage that the student body was led to expect with your change of format.

Gerald W. Leehan '64

## Kibitzer

By Elwyn R. Berlekamp '62

SOUTH	WEST	NORTH	EAST
♠ A K 5	♠ Q 8 7 6	♠ 3 2	♠ J 10 9 4
♥ J 10 8 4 3	♥ 9 7	♥ A K Q	♥ 6 5 2
♦ 4	♦ K 8	♦ A J 10 5 2	♦ Q 9 7 6 3
♣ A Q J 7	♣ K 10 9 8 3	♣ 6 5 2	♣ 4

Bidding:

SOUTH	WEST	NORTH	EAST
(Mrs. Rosenthal)	(Berlekamp)	(Blatt)	(Ross)
1 ♥	P	2 ♦	P
2 NT	P	4 ♥	P
4 NT (modified Roman Blackwood)	P	5 ♠ (1 major and minor ace)	P
6 ♥	P	P	P

This week's hand was played last Saturday at the MIT Bridge Club by Mrs. Rosenthal, one of the more colorful and well-known bridge players in the Boston area.

I led the D9 against South's 6H contract, as the bidding seemed to place most of the suit on my left and I hoped that such a lead would persuade declarer to refuse the winning finesse in diamonds and instead rely on a losing club finesse.

Mrs. Rosenthal took the DA and led a club to her CJ. Great was the temptation to refuse the trick, leaving declarer with the erroneous impression that East held the CK so that she would get into trouble by trying another finesse against this card. Such defensive tactics

are called "sandbagging." In situations such as the one above they can rarely lose anything and often insure the doom of the contract. The best countermeasure against sandbagging is falsecarding; playing the high-

(Please turn to page 5)

# Looking Back...

## 75 Years Ago

A complaint which we have to make against our readers at the Institute, is in regard to the small extent to which they use, or, rather, do not use, our columns for communications upon local affairs. One of the chief objects of the college paper is to serve as the chief organ of the students—a place where they can make complaints, requests, or suggestions.

It has occasionally been remarked, and perhaps with reason, that the class of '86, during its career, has as a whole been lacking in social enterprise to some extent.

The Society of '88 had a love feast, last Friday evening.

F. A. Thomas has returned to the Institute, and is now plotting curves.

The class of '88 proposes to try the novel combination of the Quincy House and no wine, on the occasion of the supper, March 25th.

Nine Junior chemists visited the well-known brewery of J. Roessle at Roxbury, last Friday.

Harvard's boat crew is \$1700 in debt. Yale's boat crew is \$1200 in debt, and their professional crew coach has given up. Princeton closed the season with \$253.55 in her foot-ball treasury.

## 50 Years Ago

Mechanical Drawing classes will continue to work on bicycle sprockets and chains. The registrar announces that a new exercise in Chipping and Forging will be available this week to men in Courses II and XIII.

If you want to make a hit with a girl, ask her to go to the Prom. She will appreciate it more than a dozen shows or pounds of candy and bunches of flowers. If you sign up for the Prom early your act has an influence on others, helps the good cause along, and distinguishes you from that fortunately small class of grinds who never saw a dress suit and faint at the mere thought of a girl. The best and the prettiest girls of the state as well as a large number from other parts of the country will be there.

Next Friday evening the Biological Club will hold a smoker in the Union. It is hoped that every member will be present with his favorite pipe.

The sophomores have not done their duty in cross-country running at all. For all the interest they have taken in this important Varsity sport, Radcliffe could defeat Technology (in a letter to the editor from the Cross-Country Captain).

## 25 Years Ago

Construction work on an attractive sailing pavilion to house the dinghies of the Institute's new yachting association is expected to start in a few weeks. The pavilion has been carefully designed to harmonize with other structures on the basin. The building will be only a few feet above the level of Memorial Drive, from which it will be separated by an attractive wrought iron railing.

Technology men will lay aside their superior intellects and enjoy an evening free from the cares of calculus at the pre-April-Fools Dance Saturday night.

The MIT Radio Society ceased its continuous vigil of watching the airwaves yesterday afternoon after being on the air for almost 100 hours. Signal service was performed by the fellows over at the "shack" in providing a vital link in the emergency flood communication system set up by the National Guard.

# Kibitzer

(Continued from page 4)

est of touching cards which are being finessed. In the above hand, for example, had South played the CQ instead of the CJ, West could have hardly afforded to sandbag, for as far as he knew East might well have the CJ and another opportunity to make the CK might never arise.

However, I was so deceived by declarer's 2NT bid into believing that she now held a diamond loser that I grabbed the CK at first opportunity and led the DK which South trumped. She then led two top hearts, two top spades, ruffed a spade in dummy and wisely

reentered her hand with a diamond ruff (rather than a club, which East could have ruffed). When East's last trump was then drawn with the HJ, West was pseudo-squeezed in clubs and spades. Since South had never bid Spades nor attempted to obtain more than one ruff of this suit in dummy, it should have been obvious that her last card was the C7, but I foolishly hung onto the SQ rather than the clubs and South was then able to lay down a good club suit for the remainder of the tricks. It was a bottom duplicate score for us on that board, but fortunately the others went somewhat better and we won the tournament in spite of Mrs. Rosenthal's fine play.

<b>1/4 Chicken Snack</b>	<b>60c</b>
<b>Fish Snack</b>	<b>55c</b>
<b>Bar-B-Q or Fried Chicken Dinner</b>	<b>95c</b>
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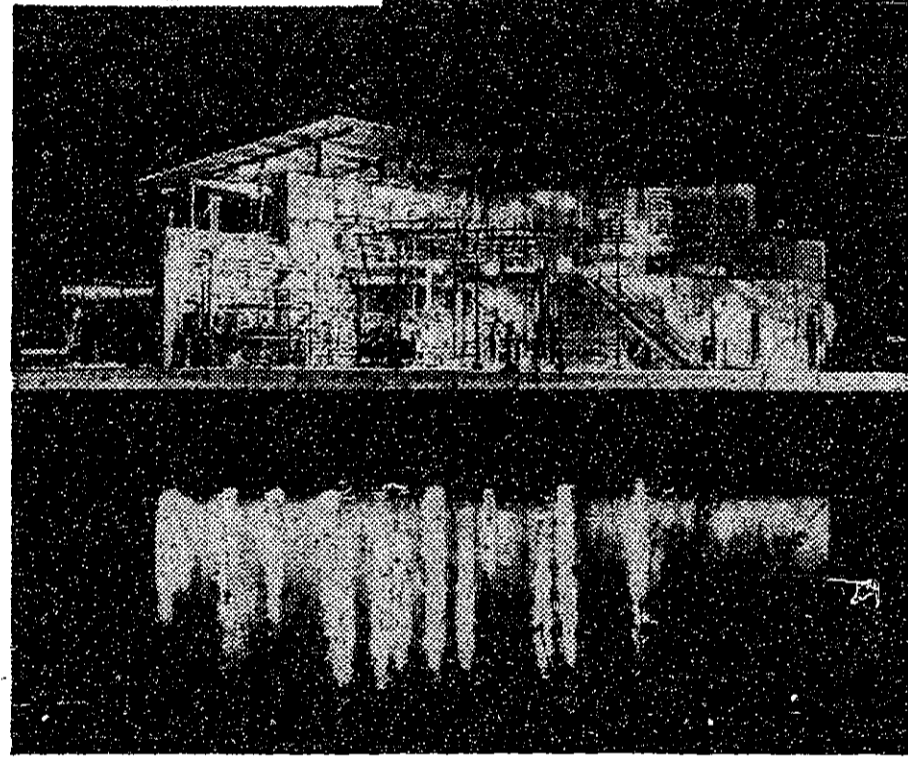
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Back in 1925, when Pratt & Whitney Aircraft was designing and developing the first of its family of history-making powerplants, an attitude was born—a recognition that engineering excellence was the key to success.

That attitude, that recognition of the prime importance of technical superiority is still predominant at P&WA today.

The field, of course, is broader now, the challenge greater. No longer are the company's requirements confined to graduates with degrees in mechanical and aeronautical engineering. Pratt & Whitney Aircraft today is concerned with the development of all forms of flight propulsion systems for the aerospace medium—air breathing, rocket, nuclear and other advanced types. Some are entirely new in concept. To carry out analytical, design, experimental or materials engineering assignments, men with degrees in mechanical, aeronautical, electrical, chemical and nuclear engineering are needed, along with those holding degrees in physics, chemistry and metallurgy.

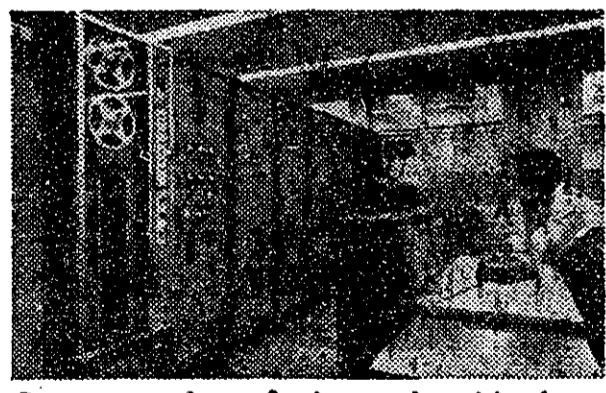
Specifically, what would you do?—your own engineering talent provides the best answer. And Pratt & Whitney Aircraft provides the atmosphere in which that talent can flourish.



Development testing of liquid hydrogen-fueled rockets is carried out in specially built test stands like this at Pratt & Whitney Aircraft's Florida Research and Development Center. Every phase of an experimental engine test may be controlled by engineers from a remote blockhouse (inset), with closed-circuit television providing a means for visual observation.



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# Technology Coop

## 'Quietly Flows The Don'

### Sovexport Film Plays At Fenway

Presenting a very realistic and well-produced picture of the Russians, their land and autocratic government before the Great Revolution, "Quietly Flows the Don," a Sovexport film now playing at the Fenway Theatre, shows the former life of the often idealized Russian peasant.

These peasants lived in very tightly knit family groups and villages and worked on large communal-type farms, but their lives were disrupted by the compulsory military service and other rulings of the Czar. Thus, Peter in the film joined the Imperial army and left his wife who promptly fell in love with Grigary, the hero of the movie. As was custom in Russia at that time, parents arranged marriages of their sons and daughters. As a result Grigary had been married to a girl, Natalya, who he disliked. He and Peter's wife left the village and worked for a large land-owner, naturally portrayed as a degenerate aristocrat.

Eventually, Grigary joined the army and left his lover who then found another love in the land-owner's son. Grigary fought within Russia against the Czar. These bitter battles were fought in the same spirit as the arrests and deportations of Liberal and Socialist party members.

Grigary returned to his loved one and literally whipped and nearly killed the land-owner's son. He then returned to Natalya, his true wife.

With an action-filled plot, the movie departs from the spirit of the book by Sholnikov, in which the arguments and philosophical reasonings of the people, who are greatly discontented with the Czar and government, are expounded. Sholnikov sought to show the atmosphere of Russia from about 1900 until the Revolution rather than simply the story of the peasant life of one man. Although this deterioration from the original intentions of the book, the movie is an interesting masterpiece.

John F. Arens '61

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## Novelist Ayn Rand Will Speak, Answer Questions at Forum

Best-selling novelist Ayn Rand will analyze "The Intellectual Bankruptcy of Our Age" before the Ford Hall Forum, Sunday evening, March 26. The meeting will take place in Jordan Hall with Judge Reuben L. Lurie as moderator.

Born in St. Petersburg, Russia, and educated in the University of Leningrad, Miss Rand came to this country in 1926 and was naturalized five years later. In real life she is Mrs. Frank O'Connor.

Miss Rand has been a screen writer for Hollywood's top studios in addition to writing such plays as "Night of January 16th" and "The Unconquered," and such famed novels as "Atlas Shrugged" and "The Fountainhead."

The audience's questions will be answered by Miss Rand, and the Ford Hall Forum invites the general public to attend.

On April 2, the highly controversial subject of medical care for the aged will be discussed by Dean Charles Schottland of Brandeis University, and Dr. E. Vincent Askey, President of the American Medical Assn.

The Forum continues to have excellent discussions by outstanding men in the various areas of discussion.

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**"THE WOULD-BE  
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 5:30 7:30 9:30

"A turbulent story of il-  
 licit love."  
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"A Russian 'Gone With  
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 — Beckley, Herald-Trib.

**"And Quiet  
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 Mikhail Sholokhov's  
 classic novel.

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An Event  
 for the Connoisseur

**Aksel Schotz**  
 Danish Baritone  
**"Die Winterreise"**  
 Paul Ulanovsky, piano

**Jordan Hall**  
 Wed., March 29, 8:30 p.m.  
 tickets at the Box Office

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Academy Award Nominee  
 For Best Actress  
 Elizabeth Taylor  
 Katharine Hepburn  
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**"Suddenly, Last  
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 1:15 5:20 9:25  
 Co-feature  
 Clark Gable - Sophia Loren  
 Naples! Capri!  
 In Technicolor  
**"It Started In Naples"**  
 11:25 3:30 7:35

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First Time In Boston

**Chinese Council Presents Peking Opera At Kresge**

Saturday night, March 18, saw the first presentation of authentic Peking Chinese opera at Kresge Auditorium, and for that matter, in the Boston area. The Chinese Intercollegiate Council of Greater Boston presented the Yeh Yu Opera Association in a program of two operas, "Picking Up The Jade Bracelet" and "Volunteer's Farewell."

The evening began with a wonderful introduction by Donald Somers who first became interested in this form of operatic expression in Cantonese opera when in New York City many years ago. His comments and narration were an integral part of the show's appeal, and his jovial personality set up the audience perfectly for the ensuing action. Aiding him in his detailed explanations were Helen Yueh, Frank Tao, and members of the orchestra.

The orchestra was really something different to hear. It was composed of two stringed instruments, two different sized gongs, drums, and cymbals. The stringed instruments provide the very curious melody to which the actors sing, while the rhythm section of the orchestra maintains a tempo for the opera's progression. The drum player is the leader of the orchestra, and is responsible for the careful sustainment of the proper rhythm. The evening would have been highly enjoyable even if the strange orchestra were the sole performance!



Robert Wong and Siao Ming wearing traditionally elaborate Chinese costumes in the Yeh Yu Opera Association's presentation of "Volunteer's Farewell."

**Prominent Writers**

**B. C. Slates Conference**

Prominent writers, critics and editors will participate in a day-long Writers' Conference April 29 at the conclusion of Fine Arts Week at Boston College, Rev. Francis W. Sweeney, S.J., director of the Humanities Series which is sponsoring the program, has announced.

There will be panels on the writing of fiction, drama and poetry as well as workshops on "Breaking Into Print" and the writing of history. Rear Adm. Samuel Eliot Morison (USNR, Ret.), famed naval historian who wrote a comprehensive naval history of World War II, will conduct the workshop on the writing of history. The poetry and drama panels will meet in the afternoon.

The conference will open at 9:30 a.m. with a fiction panel. Three prominent novelists will appear. They are Elizabeth Janeway who wrote "Daisy Kenyon;" John Hawkes, "The Lime Wig;" and Ralph Ellison, "The Invisible Man." Ellison teaches at Harvard and Hawkes is at Brown.

The "Breaking Into Print" workshop will meet at 11:00 a.m. with Riley Hughes, professor of English at Georgetown University and author of "The Hills Are Liars" and other books, as moderator. Other participants will be Joseph Dever, a 1942 Boston College graduate, former editor of "The Stylus," university literary magazine, and author of "No Lasting Home" and other novels; Abe Burack, editor of "The Writer;" and John Cushman, managing editor of Little, Brown & Co.

and "The Devil's Advocate," will appear on the drama panel with Elliot Norton, drama critic of the Boston "Daily Record," and William Alfred, professor of English at Harvard and author of the verse play, "Hogan's Goat."

Members of the poetry panel will be John Holmes, professor of English at Tufts and author of ten books of poetry; Anne Sexton, author of "To Bedlam and Halfway Back;" John L. Sweeney, director of the poetry room at the Lamont Library at Harvard; and W. D. Snodgrass, last year's Pulitzer Prize winner for poetry and author of "Heart's Needle."

This conference will be open to faculty members and students of New England colleges and universities. From the impressive list of guest speakers, it would be a shame for anyone interested in writing to

Uses Odd Instruments

The first of the two plays, "Picking Up The Jade Bracelet," starring Susie Mo, Frank Tao, and Philip Liu, was a love story which had a fairly simple plot. A young girl sitting before her home is met by a young student who is passing on the road and who falls in love with her. A busybody neighbor who sees the exchange of a Jade bracelet between the young man and the girl, eventually makes the bridge between the two lovers. The plot is not the important thing in these operas; rather, the subtleties in symbolic action, attire, and expression (as well as staging, use of colors, etc.) are what set the plays off from other operatic forms.

In the second opera, "Volunteer's Farewell," starring Robert Wong, Siao Ming, and M. F. Law, the symbolic manifestations of this type of art expression really appear. The plot is the story of a warrior who must leave his wife, whom he has just married. Being such a simple plot, it must depend on other things for its dynamic impact. These other things are principally the subtleties of the great sorrow both characters express due to the circumstances in which they are ensnared. A great emotional tragedy, this second play was a bit too deep for the part of the audience not familiar with the expressionistic Chinese language.

If the Yeh Yu Chinese Opera Association ever returns to Boston, it would undoubtedly be worth seeing at least one more performance such as last Saturday's. The show was well-attended and well-received by the audience, of whom about half spoke apparently Chinese. As a matter of fact, the reviewer would not have understood the operas' implications without the willing aid of the Chinese woman sitting next to him!

— Kraig W. Kramers '64

**Material Value**

(Continued from page 4)

patterns in zinc, somewhat similar in appearance to the half-cast pieces of various metals showing crystal formation on hardening, also shown.

The fiber optics display, shows light-carrying threads produce a picture about two feet away from the slide. Next to this is a little do-it-yourself piezo-electric kit: push the lever hard enough and get a twenty-thousand volt spark, jumping from one contact to the other (neither is you). The two moving wheels, showing heat-induced changes of magnetic permeability in metals and of rubber-band contraction, are striking examples of physical effects. (Two students observing the motion of the metal wheel felt it should move counterclockwise (why?) though it was vigorously rotating the other way. A test proved someone had simply spun it.)

In addition to the exhibit itself, the Department has put out a small pamphlet describing subjects, areas of concentration, and schedules. The pamphlet is available in the Information Office. It is lucidly written, if necessarily terse, and invites those interested in further information to contact members of the faculty or head-of-Department Pro-

# Techretary Of The Week



Techretary of the Week is 23-year-old Shiela Holst of the TCA office. Shiela, a native of Boston, worked at the Harvard Business School last year, then toured Europe for three weeks.

At MIT she has been a waitress at the Faculty Club, a Sailing Club member for eight years, and a TCA Techretary since September. Her opinion of Tech Men is that "They are fun."

—Photo by Curtiss Wilier '63

## Letters:

(Continued from page 4)

yers are not rated in this way, and neither should teachers be: it is too complicated a business for that. A comedian is either funny or not funny, and one pays accordingly, but a bumbling lecturer can force his exasperated students to burrow into a textbook and learn how to read scientific material, while a brilliant, inspiring lecturer can present such a finished surface to his subject that his thrilled students only subsequently discover that there is no foothold to be found in it anywhere. The exposition was so smooth and lucid that it gave them no practice in overcoming difficulties by themselves—they had no chance to grow. The inner glow produced by all that inspiration rarely lasts beyond the end of the course: there are nostalgic memories, but no feeling of power.

For these reasons therefore I hope that The Tech will decide not to follow the committee in its initial error of judgment, and will decide not to publish the rest of the report. There are things that can be done, but not in this way.

Sincerely,  
Arthur Mattuck  
Asst. Professor  
of Mathematics

Sunday Evening MARCH 26 at 8 o'clock  
**AYN RAND**  
(Author of "The Fountainhead")  
**"The Intellectual Bankruptcy  
of Our Age"**  
**FORD HALL FORUM**  
JORDAN HALL — Gainsboro St. cor. Huntington Ave. — BOSTON  
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**PETER  
SELLERS**  
IN  
**TWO-WAY  
STRETCH**

with  
**Max Shulman**

**On Campus**

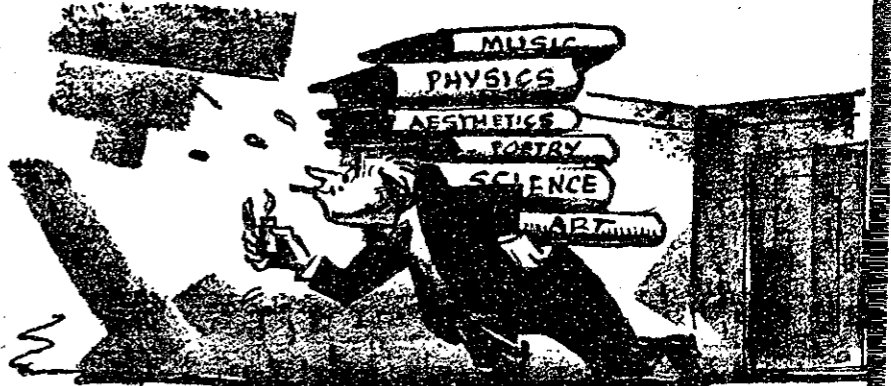
(Author of "I Was a Teen-age Dwarf", "The Many Loves of Dobie Gillis", etc.)

## I WAS A TEEN-AGE SLIDE RULE

In a recent learned journal (*Mad*) the distinguished board chairman (Ralph "Hot-Lips" Sigafos) of one of our most important American corporations (the Arf Mechanical Dog Co) wrote a trenchant article in which he pinpointed our grave national problem: the lack of culture among science graduates.

Mr. Sigafos's article, it must be emphasized, was in no sense derogatory. He stated quite clearly that the science student, what with his gruelling curriculum in physics, math, and chemistry, can hardly be expected to find time to study the arts too. What Mr. Sigafos deplores—indeed, what we all deplore—is the lopsided result of today's science courses: graduates who can build a bridge but can't compose a concerto, who know Planck's Constant but not Botticelli's Venus, who are familiar with Fraunhofer's lines but not with Schiller's.

Mr. Sigafos can find no solution to this hideous imbalance. I, however, believe there is one—and a very simple one. It is this: if students of science don't have time to come to the arts, then we must let the arts come to students of science.



*He will know that he is a fulfilled man...*

For example, it would be a very easy thing to teach *poetry* and *music* right along with *physics*. Students, instead of merely being called upon to recite in physics class, would instead be required to rhyme their answers and set them to familiar tunes—like, for instance, *The Colonel Bogey March*. Thus recitation would not only be chock-full of important facts but would, the same time, expose the student to the aesthetic delights of great music. Here, try it yourself. You all know *The Colonel Bogey March*. Come, sing along with me:

*Physics*  
Is what we learn in class.  
*Einstein*  
Said energy is mass.  
*Newton*  
Is highfalutin  
And Pascal's a rascal. So's Boyle.

Do you see how much more broadening, how much more uplifting to learn physics this way? Of course you do. What do you want another chorus? By all means:

*Leyden*  
He made the Leyden jar.  
*Trolley*  
He made the Trolley car.  
*Curie*  
Rode in a surrey,  
And Diesel's a weasel. So's Boyle.

Once the student has mastered *The Colonel Bogey March*, he can go on to more complicated melodies like *Death and Trolley*, *the Eroica*, and *Love Me Tender*.

And when the student, loaded with science and culture, leaves the classroom and lights his Marlboro, how much more he will enjoy that filter, that flavor, that pack or box! Because there will no longer be an unease gnawing at his soul, no longer a little voice within him repeating that he is culturally a defective. He will know—know joyously—that he is a fulfilled man, a whole man, and he will bask and revel in the pleasure of Marlboro as a colt rolls in new grass—content, complete, well-educated—a credit to his college, to himself, and to his tobaccoist!

And while he is rolling, colt-wise, in the new grass, perhaps he would stop long enough to try a new cigarette from makers of Marlboro—unfiltered, king-size Philip Morris. Welcome aboard!

**WTBS**  
is  
having an  
**OPEN HOUSE**  
**FRIDAY MARCH 24th**  
★ ★ ★  
**2 p.m. Until Sign-Off**  
★ ★ ★  
**Walker 030 WTBS STUDIOS**  
**Cider & Donuts**

**Dr. Charles Townes To Be New Provost**  
(Continued from Page 1)

stemmed from the wartime development of radar and the ability of scientists and engineers to produce and use microwaves.

The word "maser," which was coined by Dr. Townes, is an acronym standing for "micro-wave amplification by stimulated emission of radiation. In masers, atoms and molecules are made to give up stored energy and amplify a radio signal. In contrast to conventional radio amplifiers, which themselves generate noise, masers produce very little and are therefore extremely sensitive.

One of the first practical applications of a maser was made in 1958, when a research team at Lincoln Laboratory received radar echoes from the planet Venus. The use of the maser was considered to have been equivalent to more than a four-fold increase in the power of the laboratory's huge transmitter on Millstone Hill.

**Varsity Club Elects Riley**

The T-Club, MIT's Varsity Lettermen's Assn., elected the following officers March 15: President, Chet Riley, Theta Chi; Vice President, Tom Alexander, Lambda Chi Alpha; Secretary, Jim Evans, Delta Upsilon; and Treasurer, Tony Weikel, Delta Upsilon.

**Season Opens April 6th**

**Lacrossemen To Play British Stars**

On April 6 for the first time in MIT history the Engineer lacrossemen will open their season against foreign opposition. An all-star team from Oxford-Cambridge will take on the Engineers in the eighth game of their ten game tour.

The stickmen, boasting a proud 10-1 record last year and a 29-4 showing for the last three seasons, are busily preparing for the encounter which will be followed by Union at Schenectady on April 8.

Experience is thinner this season than in years past as only seven lettermen return from last year's squad. These include goalie Jim Kessler '62, defensemen Tom Burns '62, John Rothchild '62 and Ed Linde '62; Midfielders Larry Pitts '62 and Captain Joe Skendarian '61; and attackman Hans Schroeder '62.

Additional experience will come from Jim Poitras '62 a stalwart from the 1959 squad.



Members of the lacrosse team maneuvering for position behind the goal in a pre-season scrimmage on Briggs Field.



Coach Ben Martin (left) with Captain Joseph Skendarian '61.

Last year's freshman team, which didn't manage any victories in eight starts must supply some of the depth. Of the sophomores, Don Yansen, Tony Weikel and John Lamberti have been particularly good. John Prussing '62, another man out for the first time, has also shown potential.

According to coach Ben Martin, the team will be slower this season than in other years and as a result will play a more conservative, ball-control style, taking fewer, but better shots. The defense will remain, as in years past, a man-to-man which sags to stop up the middle.

In summing up the prospects for the season Coach Martin said, "We will be somewhat weaker than in the past but will try to compensate for this with spirit, desire, and drive. Essentially we're going to try to out hustle the opposition."

The coach also emphasized that in contrast to previous seasons the positions will be wide open and those interested in playing should see the coach at practice, which is held every weekday at 4:30 p.m.

**Discussion On Cuba Slated For Thursday**

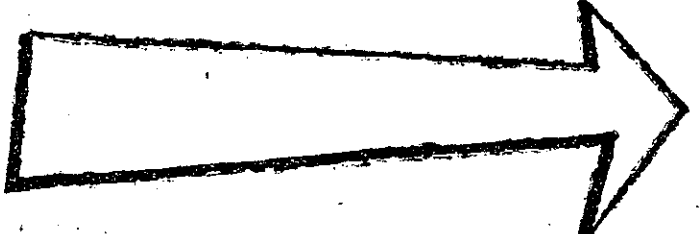
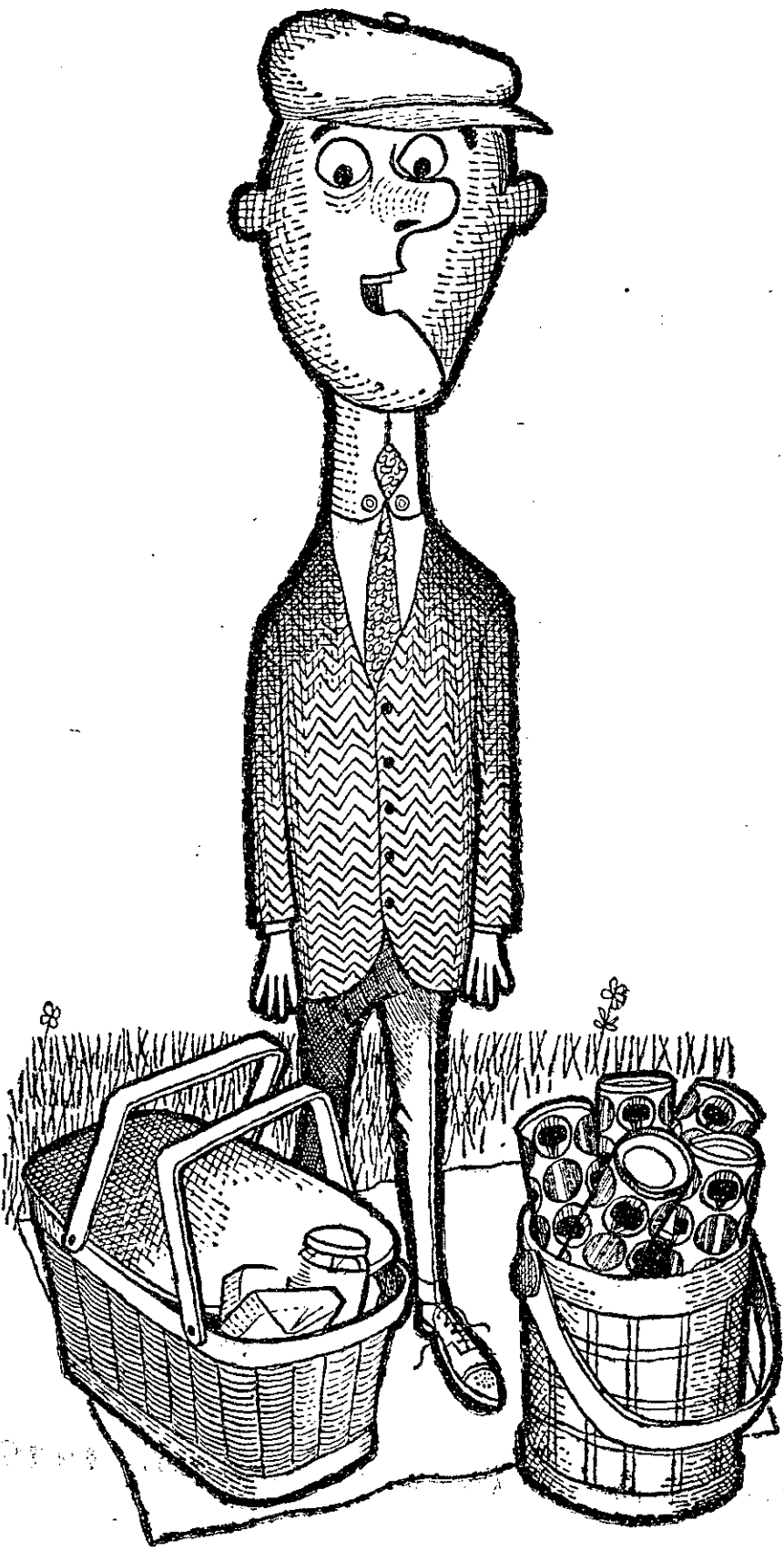
The MIT Fair Play for Cuba Committee will meet Thursday, March 23 at 8 p.m. in 3-270. The eminent sociologist Dr. Fritz Pappenheim will talk on "The Alienation of Man and the Cuban Revolution." Dr. Pappenheim was among the last Americans to see Cuba prior to the State Department imposed travel ban.

**Foundation Offers Funds For Humanitarian Projects**

The Everett Moore Baker Memorial Foundation is again offering financial assistance to organizations sponsoring humanitarian projects. Activities are invited to describe their projects at a meeting in Litchfield Lounge, Friday at 5 p.m.

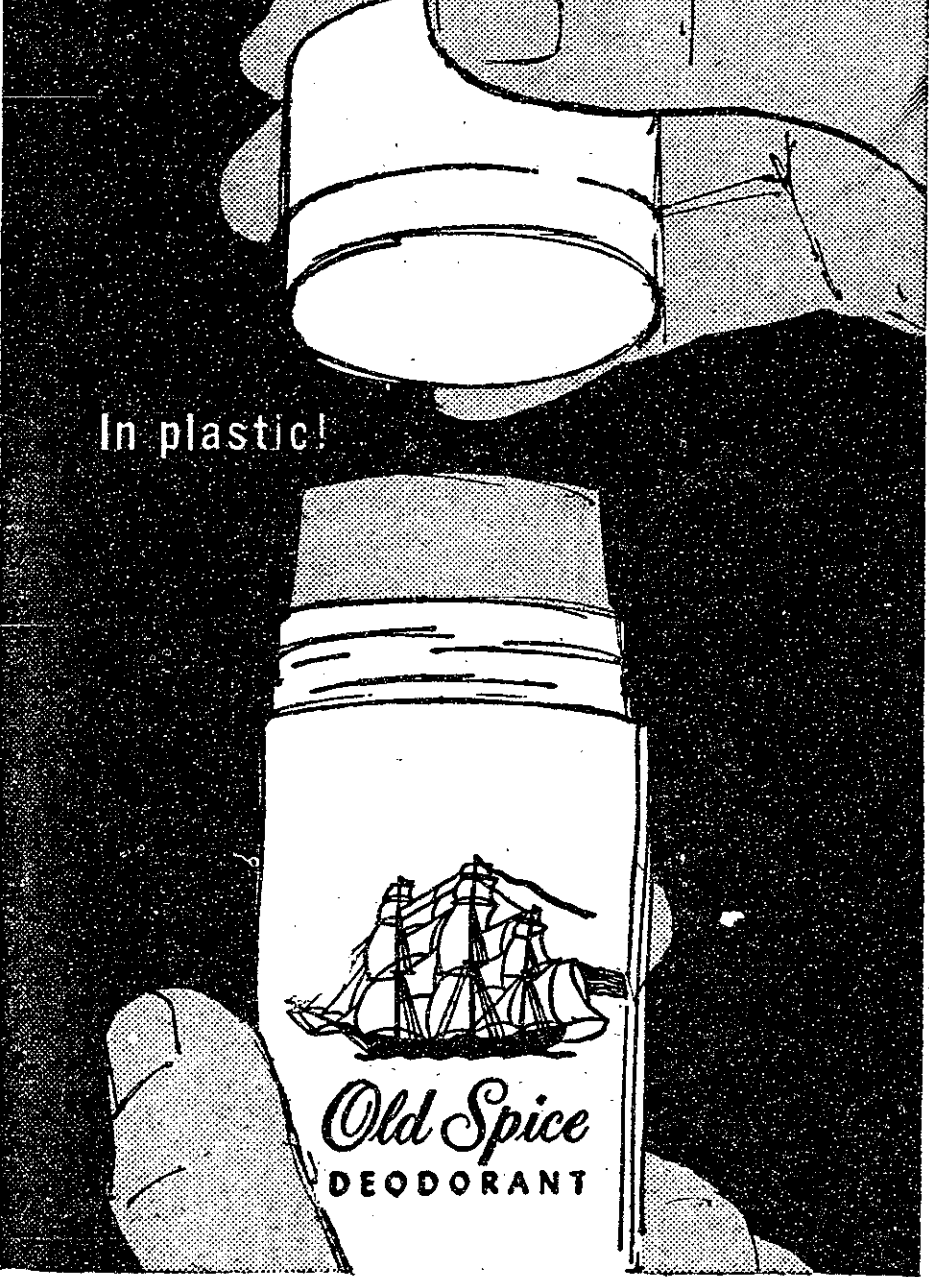
In former years the money has been used to buy Baker Memorial Prints at MIT and has been used to aid the World University Service and Cross-

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# Meet The Coaches

**Batterman  
Vitale**

Personable Charlie Batterman, one of MIT's most versatile coaches, boasts a career as varied as his impressive list of talents. He is currently coach of varsity swimming, varsity soccer, and freshman lacrosse, and teaches tennis, volleyball, archery, swimming, and diving in the physical education program.

### National Diving Champ

Primarily an outstanding diver, Charlie was tops in high school competition in both Ohio and Georgia, took the national junior championship, and holds the unique distinction of winning the high and low board events in both the NCAA and NAAU competitions while at Ohio State in 1944.



**Coach Charlie Batterman**  
The Olympics were of course not held during the war, but Batterman surely would have represented the US had they been staged. After graduating from Ohio State and getting his Masters from Columbia, Charlie started at the Athletic Department of a high school in Maryland, where he coached every sport played and served as Director of Athletics as well! Sampson college in New York tapped him next as their head coach and swimming director. Under his guidance Sampson, then part of the New York State University, dominated Empire State swimming circles for three years.

### Batterman Comes To MIT

Charlie left Sampson to attend the Harvard Graduate School, where he was named assistant varsity swimming coach, a post he held until 1956 when he came down Massachusetts Avenue to MIT.

Tech was able to make full use of the Batterman talents by making him varsity coach of soccer, a sport in which he had starred in high school and had coached in Maryland. His teams have been New England powers during his tenure producing two All-Americans in the past two years, and several All-New Englanders, while playing and beating several nationally ranked teams like the Air Force Academy, which fell to Tech Booters last fall.

In lacrosse, a sport he had never seen before coming to MIT, Charlie has been an equal success, coaching as freshmen most of the men who went on to compose Ben Martin's national championship teams. Since pre-college lacrosse experience is almost unheard of at MIT, the freshman coach's job is made that much more difficult and Batterman is even more deserving of praise.

### Never Inactive

In the summer the lively coach has been a professional diver at Jones Beach in New York and has put on diving exhibitions throughout the Boston area. In 1956 he personally coached Olympic springboard champion Bob Clotworthy before the Games that year.

Charlie has recently revealed another talent by writing a series of five articles in a coaching magazine about diving, and is now working on a book for publication in December entitled *Coaching, Swimming and Diving*.

Fencing, a unique sport at MIT, is one in which tradition, honor, and courtesy are the major considerations with the participants, who feel strongly the great esprit de corps associated with their sport.

### Tradition Is Maintained

Once inside the Salle (the Italian word for hall which designates the fencing room of the DuPont Athletic Center) the ancient rules of chivalry prevail. Fencers are ranked in the medieval manner as knights, squires, and cadets, salute each other before competing, and conduct themselves in a gentlemanly way at all times.

Here in the Salle discipline is maintained by the members of the team themselves whose approval all prospective candidates for the varsity must earn in order to be part of the squad.

### Vitale Dominates The Salle

The leading figure in the Salle is always Coach Silvio Vitale, called 'Maestro'

by his proteges, indicative of his title of fencing "master", of which there are only about twenty five in the U.S. today. A Roman nose, dashing mustache and ready wit mark this former great Italian champion, who has been coaching Tech fencers for eleven years.

Maestro Vitale, who was born in Boston, learned his fencing at college in Italy, the country he considers most outstanding in competition involving weapons of all types.

After a rigorous training period — one did not get to use a blade until after three months of calisthenics and running — Vitale became one of Italy's finest fencers. Four times the champion of his adopted country, the future Maestro excelled in sabre, foil, epee, and in "three weapons", in which scores on all three of the above are combined.

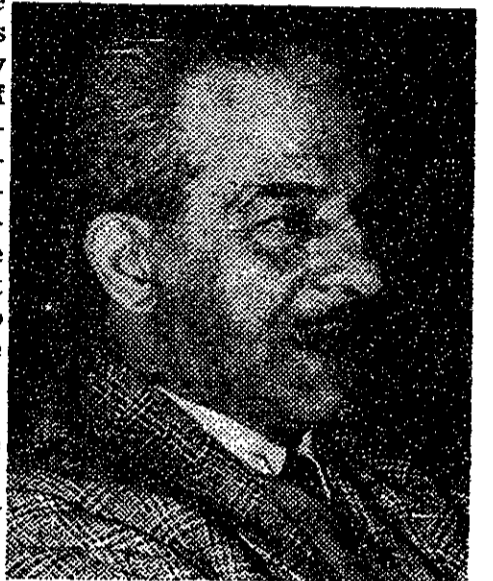
Returning to Boston in 1935, he was five times New England amateur champion before the war, during which he served in the Coast Guard in special services. The Maestro came to MIT in 1949 and has been leading Tech fencers ever since. He was founder and first president of the Boston Fencing Club and is currently the New England representative on the NCAA fencing committee.

### Tech Fencers Have Stood Out

Under Vitale MIT fencers have attained considerable prominence in New England and in the rest of the country. Just last season two of his men, Sherman Karp '60 and Joe Verdeber '60 were New England champions and tenth and eleventh in the nation, respectively, while the team dominated New England all year.

According to the Maestro, the new duPont Athletic Center has provided MIT with the finest fencing facilities in the country, even surpassing such powers as NYU and CCNY, usually the top teams in the nation, and Cornell, one of the real strongholds of the traditions and customs of European fencing.

Other interests of the genial Vitale are archery and pistol — he says, "If you can't fight them, shoot them!" In addition to teaching archery in the physical education classes, he is past president of the Melrose Archers and of the Saugus Pistol and Rifle Club.



Silvio Vitale

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## Tech Table Tennis Club Wins New Englands Here



Several games were in progress at once during the table tennis championships last Saturday. — photo by Allan Rosenberg '63

MIT's newly formed table tennis club carried off the first three places in singles competition and won the doubles in the New England Intercollegiate Championships held in Walker Memorial on Saturday. No team standings were determined by the round robin matches, but MIT was clearly in first position.

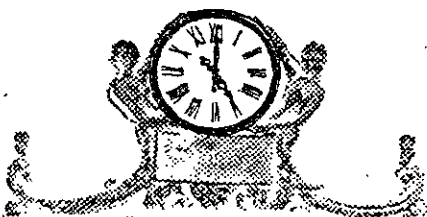
Alan Bell '63, Barry Michelman '61, and Bipin Patel '61 took the singles honors in that order and Bell and Patel teamed up to win the doubles.

Competing colleges were University of Rhode Island, Brown, UMass, UConn, Northeastern, and MIT.

The table tennis club will hold an Eastern US Championship Tournament in Waller Memorial on May 6 and 7, Al Bell announced. The event is being advertised extensively in New York, Washington, and other eastern table tennis strongholds and the club already has received notice that the third-ranked player in the nation will be here to compete. The room now being used in Walker presents almost ideal conditions for as high level a tournament as the Easterns will be. Plenty of space is available around each of the five tables, and the lighting is sufficient to give 110 candlepower on the floor, compared to 60, which is usually encountered in playing.

The regular functioning of the club is carried out in the basement of the Armory, where tournaments are held almost every Saturday afternoon. In addition, members may use the tables to play during the week anytime that the DuPont Center is open.

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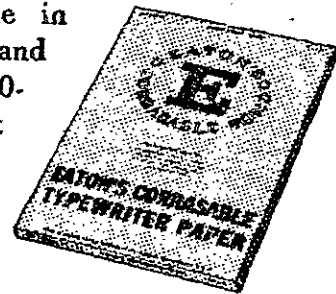


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# A New Activity — — MIT Hui-O-Judo

by Jeff Levinger '63

A new group has appeared on the MIT scene. The forty canvas coated members of the MIT Hui-O-Judo (Hawaiian for Judo Club) have caused quite a stir around the DuPont Athletic Center with their unusual activities and equally unique garb. The club is being led jointly by Harry Yanagi and Ed Miyawaki, who each hold the title of "third rank black belt". Rankings are won in competition in which a man's skill is the only criterion of victory—there are no weight classes. In order of increasing ability the belt classifications are white (two grades), brown (three), and black (ten). Above eighth rank black belt is reserved for judo masters; one tenth rank master once taught Theodore Roosevelt in the White House.

The MIT club meets three times a week in DuPont and the members range in proficiency from inexperienced beginners to fairly advanced competitors, although only one has reached the brown belt rank.

The club teaches a form known as Kodokan Judo, developed about 1882 in Japan. The two basic principles are maximum efficiency with minimum effort and development of mind and body as an inter-related whole.

### Learning To Fall Is First

Training in judo begins with learning to fall, starting with break-fall slaps on the ground and progressing to near-hand-spring falls. Without this training it is impossible to continue, for most of the sport is throwing and falling, often unexpectedly. The uniform is light pants and a thick canvas coat which is the basic means of



Bob Gilmore '62, thrown here by Duk Yoon '62, will break his fall with a slap to the mat in the split-second before landing.

throwing, using lapels and sleeves as well as the opponent's body to throw him. Relatively simple throws are the first to be introduced, illustra-

tive of the footwork, balance, and coordination which is basic to each judo maneuver. From the time the student is able to fall well (that is, painlessly) he is encouraged to participate in Randori, or free exercise. This consists of two minute matches with each man trying for a fall. One fall determines a real match, but for practice the Randori matches continue for two minutes regardless of how many falls occur.

### More Than Just A Sport

The entire sport is built around the two maxims quoted above, those of maximum efficiency with minimum effort and the essential unity of mind and body. They constitute the basis for a sport, a means of self-defense, and, in broad, a philosophy of life. Balance and simplicity are combined in judo to use an opponent's strength to tactical advantage without excessive force, and to utilize one's own strength in the most efficient manner, i.e. against an opponent's momentary imbalance or vulnerability. The mind and body must perfectly integrate, knowledge, recognition, and action into one act. This is perhaps more vital in judo than in other body-contact sports because of the emphasis on timing and balance. The pins allowed, in-



Practice of individual throws makes swift, smooth maneuvers second nature to each man, aids effective surprise on attack. Cooperation in this type of learning emphasizes the coordination of decision and action without disruptive competition.

cluding choke, when a fall is inconclusive are possibly a holdover from jujitsu.

### Sport Was Begun By Monks

Judo, the gentle art whose name means 'practice of a principle,' began in primitive fashion in ancient China, among monastic orders forbidden to use arms. Under continual attack by raiders, the monks were able to defeat armed horsemen. When the Japanese took it over, however, they developed it into ju-

jitsu, an offensive as well as defensive method of unarmed combat. Jujitsu developed for many centuries under masters who spent entire lifetimes at it, though toward the middle of the nineteenth century it had fallen into disuse due to the destruction of the feudal order in Japan.

Around 1882 Professor Kano began to build a school of body-development and self-defense oriented as an amateur sport called judo. Progressing from years of jujitsu study, he developed a highly skilled sport from what had been a dangerous, offensive discipline.



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