Frank Osha Wins UAP Election
As A Record 1757 Participate

A record number of 1727 students participated in the Undergraduate Association election on Tuesday, March 14. Frank Osha, '62, was elected President of the Undergraduate Association by an overwhelming majority of over 900 votes. Runner-up was Ed Linde, '62.

Inventor Of Laser

Dr. Townes To Be New Provost

The appointment of Dr. Charles H. Townes, one of the nation's leading physicists, as Provost will be announced tomorrow by President Julius A. Stratton. As Provost, Dr. Townes will share with the President the responsibility for general supervision of the Institute's educational and research programs.

Dr. Townes, who will assume his new duties in the Fall, is on leave this year from his post as Professor of Physics at the California Institute of Technology and is affiliated with the Pacific Inergie Laboratory in Cambridge, Mass., which is 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. degree in modern languages in 1935. He did graduate work in physics at the University of Michigan from 1935 to 1937 and at the California Institute of Technology in 1939.

A member of the technical staff at the Bell Telephone Laboratories from 1939 to 1947, he did post-graduate work during World War II designing radar and bombing systems and working on the theory of the maser, an early form of a microwave spectroscopy.

Dr. Townes was appointed associate professor of physics at Columbia in 1948, professor in 1950, and served as director of the Columbia Radiation Laboratory from 1950 to 1952 and chancellor of the University's department from 1952 to 1955.

He is widely regarded as one of the greatest workers in the emerging field of microelectronics, and is a Fellow of the American Physical Society and the Institute of Electrical and Electronics Engineers.

Convocation Scheduled

As the students' formal observance of the MIT Centennial, a special convocation will be held Monday afternoon, April 10, at Kresge Auditorium during which the Institute's educational leaders will be honored.

The convocation will be addressed by Dr. Jerome Wiener. The afternoon's speakers will be scheduled to be Dr. Jernome Wiesner.

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Closed Sessions Reports
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 Childman of Newtonville, associate professor of music and director of University bands.

There is no admission charge, so Tech students (exclusive of freshmen 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. Kramer '65

Permanent Chairman Posts Are Open for Nominations

Permanent chairman of the following committees will be nominated Thursday, March 21: Finance Board, Public Relations Committee, Secretariat, Student Committee on Educational Policy, Freshmen 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.

SCCP

The Student Committee on Educational Policy will hold a meeting 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.

ORDER FROM CONTROL SYSTEMS:

ORDERS FROM A COMPUTER NOW CONTROL GIANT OIL REFINERY UNIT

Every 24 hours, the world's largest distillation unit separates crude oil into ten different categories which end up as six million gallons of finished products.

This involves continual monitoring of 196 instruments, followed by precise balancing of controls. To operate at peak efficiency, control directions are changed seventy-five times daily to compensate for a multitude of variables.

The IBM computer that recently took over this job now reads the instruments, makes the calculations, and issues the orders for the control changes. It is guided in its work by 75,000 instructions stored in its electronic memory.

Just a few years ago electronic control of such a complex industrial process would have been impossible. But such is the progress in computer systems that in the sixties it will become commonplace.

This dramatic progress means exciting and important jobs at IBM for the college graduate, whether in research, development, manufacturing, or programming.

If you want to find out about opportunities in any of these areas, you are invited to talk with the IBM representative. He will be interviewing on your campus this year. Your placement office can make an appointment. Or write, outlining your background and interests, to: Mgr. of Technical Employment, Dept. 898, IBM Corp., 590 Madison Ave., New York 22, N. Y.

IBM

$2.85 Gets $5,000

SBLI Yes, a man age 30 can get $5,000 of Savings Bank Life 5-Year Renewable Term Insurance for only $2.85 monthly. For age 20 it's $2.25; $2.50; $3.45; 40; $4.35. Annual dividends reduce these costs even more! Ask for folder giving rates at your age.

CAMBRIDGEPORT SAVINGS BANK

(Right in Central Sq.) Cambridge, Mass. Phone UN 4-3771

For Sale

1960 Vespa Scooter
$275 or Reasonable Offer
Call 946-3678
Reading, Mass.

The Architecture of America

A Social and Cultural History
John Burrough 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 Burrough, 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 organizations which confront us today: whether we will accept the need for city planning, whether the arts can survive the taste and choices of public officials, and whether architecture can find a meaningful role in the other arts.

This large and unusual book contains fifty-five half-tone illustrations, presenting America's major architects and showing the variety of functions for architecture throughout the country. THE ARCHITECTURE OF AMERICA is a unique history in both approach and penetration of thought. Its pre-publication price is only $12.50; $15.00 after April 1961.

Technology Store
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 in the brain after being injected into the bloodstream. The concentration takes place because normal brain tissues form a "barrier" against the boron. When neutrons emitted by the reactor are directed into the tissues 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 lasts 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 by the patient's own doctors) to remove the major portion of the tumor and place 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.

Treated 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 alive 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 anesthesia is continued 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 "blooded" 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 tissues 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 organs there is little difference in the permeability of tumorous 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 this, stenography and monitoring which would be applied 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 the 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 valves, electrocardiograms and blood pressure allow for the anesthetic team the information that is need 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 during the month. Among the more prominent are the Exhibition of The Art Treasures of Thailand, the Zapf Exhibition, and The Passion according to Martin Schongauer. Among 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. Kramer '64
Letters:

To the Editor:

The Tech saw fit to publish last Friday a report on the English 10843 course, prepared by the Student Committee on English, and based on questionnaires returned by about half the freshmen. It seems to me that the action of the committee in making this report public, and of The Tech in actually publishing part of it was a mistake. It is not the function of the academic reality and propriety of faculties and departments.

Let us grant at the outset that the Tech is well-advised in recognizing that the student committee has a responsibility to see that its activities are subject to criticism, and that in most cases it is wise, even highly desirable, to recognize this fact in the institution to which the committee’s students belong. At the same time, it is evident that the committee’s intentions were constructive, not to shellshock, to incorporate the teaching process of any part of the faculty, or for the students passive and sensitive matters.

In my judgment, the public criticism of the teaching process of any part of the faculty, or any course is a very important thing. It is a very important thing, not only for the students, but for the faculty as well.

I have been in the habit of saying that the teaching process of any part of the faculty, or any course is a very important thing, not only for the students, but for the faculty as well.

The Tech.

May 22, 1961

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, it was a satisfactory election, and we expect the results to be wise, and we may expect to see some satisfactory work from all involved. The President of the class of 1963 will be elected, along with his fellow officers, and the responsible for the senatorial votes. It is to be hoped that the class of 1963 will likewise be faced with the task of the Junior Proctor, as well as the other demands of student leadership.

The Tech is naturally pleased that Frank Osha was chosen Undergraduate Association President. Mr. Osha received our endorsement because he is a candidate who is likely to bring to the office the vigor and energy necessary to represent the student body. The Senatorial votes are a reflection of the student’s interest in the future of the faculty as the Harvard Crimson.

As I have pointed out, the power of the faculty, and the student body are inextricably linked. The faculty is a part of the student body, and the student body is a part of the faculty. As a result, the student body has the right to expect that the faculty will improve their teaching staffs so that we shall have accomplished something. If this report were to be made public, the faculty would be required to improve their teaching staffs so that we shall have accomplished something. If this report were to be made public, the faculty would be required to improve their teaching staffs so that we shall have accomplished something. If this report were to be made public, the faculty would be required to improve their teaching staffs so that we shall have accomplished something.

The Tech.

May 22, 1961

Lecturers—2

Last week this page carried a portion of a recent report made by the Student Committee on English. I am currently engaged in the criticism of the lectures in freshmen courses. The most striking part of the report was that the lectures (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 that we had in mind in printing this report. The idea was not to make good copies of any of the reports, but to make a report public which contained the essence of the criticism of the lectures in freshmen courses. The most striking part of the report was that the lectures (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 that we had in mind in printing this report. The idea was not to make good copies of any of the reports, but to make a report public which contained the essence of the criticism of the lectures in freshmen courses.

Material Value

The interestingly instructive exhibit in the Mather Science Building in the new format of the Tech is a welcome example of an Administration attitude, often obscured within the school; the Administration informing the students of the changing undergraduate, of all aspects of MIT environment. There are several Courses which are known to be of high interest, and undoubtedly, they have as rich a following 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 used to reveal the changing format of the Mather Science Building in the new format of the Tech is a welcome example of an Administration attitude, often obscured within the school; the Administration informing the students of the changing undergraduate, of all aspects of MIT environment. There are several Courses which are known to be of high interest, and undoubtedly, they have as rich a following as Course VIII. We only hope their exhibits are as well presented.

The Tech.

May 22, 1961

Kibitzer

By Elwyn R. Berkemeyer ’62

SOUTH

A K 5
Q 876

WEST

A K 5
Q 876

EAST

A K 5
Q 876

Bidding

SOUTH (Mrs. Rosenthal)

EAST (Berkemeyer)

TV

P

65

(1 major and 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 imaginative players. She was called “sandbagging,” in situations such as these, as the “point” of anything and often ignores the “point” of anything. The “pass” measure against sandbagging is playing the “point” of anything. (Flite Tuesday, May 21)
What would you do as an engineer at Pratt & Whitney Aircraft?

Regardless of your specialty, you would work in a favorable engineering atmosphere.

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&W today.

The field, of course, is broader now, the challenge greter. No longer are the company's requirements confined to gradutes 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 breathig, 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 a specially built test stand in the West Hartford Laboratory, with closed-circuit television providing a means for visual observation.

Kibitzer

(Continued from page 4)

rest of touching cards which are being follows. In the above hand, for example, bad South placed the CJ instead of the CJ, West could have hardly afforded to snatch, for as far as he knew East might, well have the CJ and another opportu

tunity to make the CK might never arise.

However, I was so deceived by declarer's SNT bid into belieiving that she now held a diamond, I jumped to the CK at first opportunity and led the DK which South trumped. She then led two hearts, two top spades, ruffed a spade in dummy and wildly

reentered her hand with a dia-

mond ruff (rather than a club, which East could have ruffed). When East's last trump was then drawn with the HJ, West

was pounced-up 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

card was the CJ, but I foolish-

ly hung onto the CK rather then the clubs and South 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 despite of Mrs. Rosenthtal's fine play.

Kibitzer

(Continued from page 4)

Looking Back...

75 Years Ago

A complaint, which we have to make is that the Institute, is in regard to the small extent to which they do columns for communications and columns for discussions. The chief object of the college pa-

per is in part to express the chief organs of the students—a place where they can make com-

ments and discussions.

The class of '88 has occasionally been re-

marked, and perhaps with rea-

son, that the class of '88, dur-

ing its career, has as a whole been lacking in social enter-

prise 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 a novel combination of the Quiney House and no wine on the occasion of the supper, March 29th.

Nine junior chemists visited the well-known brewery of J. Rossele at Roxbury, last Fri-

day.

Harvard's boat crew is $1700 in debt. Yale's boat crew is $2000 in debt, and their professional crew coach has given up. Princeton closed the season with $285.65 in her foot-ball treasure.

50 Years Ago

Mechanical Drawing classes will cease to work on bicycle parts and chains. The registrar announces that a new exercise in Cocktail and Ice-

making will be available this week to men in Courses II and XIII.

If you want to make it a hit with a girl, ask her to go to the Prom. She will appreciate it more than a dozen flowers or pounds of candy and bunches of flowers. If you sign up for the Prom early this act has an advantage over any other. The
girls have the good cause along, and dis-
tinguishes you from that fortun-
ately small class of grinds which never saw a dress suit and
tyling on the mere thought of a
girl. The beat and the prettiest
girls of the state will be present with his favorite pipe.

The sophomore has not
done its duty in cross-country running at all. For all the in-
teres they have taken in this
teresting varsity sport, Radio-
cliffe could defeat Technology

(Continued from the Cross-Country Captain).

25 Years Ago

Construction work on an attrac-
tive miking pavilion to house the dignitaries of the In-
stitute's new sailing association is expected to start in a few weeks. The pavilion has been carefully designed to har-

est the breezes that blow gently on the basin. The building will be only a few feet above the surface of the water, and will be separated by a narrow tract of land.

The gymnasium is expected to start in May. The patrons of the...
Dr. Frood presented the automobile industry with this magnificent pre-compact. Hurt and disillusioned because the auto industry did not want his compact, Froodnow offers his pre-compact. It features four (4) wheels, genuine foot-power brakes, "fresh-air conditioning," and actual left-right steering mechanism! The economical 7.9 horsepower engine saves you hundreds of dollars in hay and oats! Goes 32 miles per hour, gets up to 65 miles per gallon. The Froodmobile can be licensed in every state except New Jersey. (New Jersey hates Frood.) WIN this beautiful car (with "FROODMOBILE" mounted in brass on the cowls). Aitual value $1,000. Entries will be judged on the basis of humor, originality and style (preferably Froodian). If, in the same spirit as the arrests and deportations of Liberal and Socialist party members, Grigory returned to his beloved and literally whipped and nearly killed the landowner's son. He then returned to Natahla, 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 explanations of the people, who are greatly discontented with the Czar and government, are expounded. Shalnikov 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.

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

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

TO ENTER THE LUCKY STRIKE FROODMOBILE CONTEST, simply finish this sentence in 25 words or less:

"I need the Froodmobile because . . ."

Entries will be judged on the basis of humor, originality and style (preferably Froodian). If, in the opinion of our judges, your answer is best, the makers of Lucky Strike will deliver to you, on campus, the Froodmobile. A carton of Luckies will be given to the first 100 runners-up. Along with your entry send your name, return address, college or university, and class. Entries must be postmarked no later than April 15, 1961. All entries become the property of The American Tobacco Company. Send your entry (or entries) TO LUCKY STRIKE, P. O. BOX 17A, NEW YORK 10, NEW YORK.

CHANGE TO LUCKIES and get some taste for a change! product of the American Tobacco Company. "Lucky is our middle name."

"Quietly Flows The Don"" Soveexpert 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 Soviet export 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 Grigory, the hero of the movie. As was custom in Russia at that time, parents arranged marriages of their sons and daughters. As a result Grigory had been married to a girl, Natahla, who he disliked. He soon found another love in the landowners son. Grigory 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.

Grigory returned to his beloved and literally whipped and nearly killed the landowner's son. He then returned to Natahla, 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 explanations of the people, who are greatly discontented with the Czar and government, are expounded. Shalnikov 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.

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 1934 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.

TO ENTER THE LUCKY STRIKE FROODMOBILE CONTEST, simply finish this sentence in 25 words or less:

"I need the Froodmobile because . . ."

Entries will be judged on the basis of humor, originality and style (preferably Froodian). If, in the opinion of our judges, your answer is best, the makers of Lucky Strike will deliver to you, on campus, the Froodmobile. A carton of Luckies will be given to the first 100 runners-up. Along with your entry send your name, return address, college or university, and class. Entries must be postmarked no later than April 15, 1961. All entries become the property of The American Tobacco Company. Send your entry (or entries) TO LUCKY STRIKE, P. O. BOX 17A, NEW YORK 10, NEW YORK.
First Time In Boston
Chinese Council Presents Peking Opera At Kresge

Saturday night, March 13, saw the first presentation of authentic Peking Chinese opera at Kresge Auditorium, and for that matter, in the Boston area. The Chinese International 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 Schuyler, who first became interested in the form of Chinese opera presentation 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. Adding in his detailed explanations were 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 rhythmic beat on which actors sing, while the drum section and the two stringed instruments maintain a tempo for the opera's progression.

The drum player is the leader of the orchestra, and is responsible for the structural rearrangement of the proper rhythm. The evening would have been highly enjoyable even if the strange orchestra were the sole performers.

Uses Odd Instruments

The first of the two plays, "Picking Up The Jade Bracelet," starring Stacie Liu, Frank Tao, and Philip Liu, was a love story which held the audience in its sight. A young girl sitting before her home, a young student who is passing on the road and who falls in love with her. The girl's next door neighbor who sees the exchange of a jade bracelet with the young man and the girl, even more so when the bracelet changes hands between the two lovers. The plot is not the important thing in this opera; instead, the melody in symbolic action, attitude, and expression, including the staging, use of colors, etc. are what set the plays off from other operatic forms.

In the second opera, "Volunteer's Farewell," starring Robert Wang, 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 lose his wife, whom he has just married. By following such a simple plot, it must depend on other things for its dynamic impact. These other things are principally the subten of the great lovers, the individual character, the movements of the stringed instruments, the rhythm of the orchestra, and the drawing of the audience. Their every word has been highly enjoyable even if the strange orchestra were the sole performers.

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. A moving wheel, showing heat-induced changes of magnetic permeability in metals and of rubber-band contractions are echoing each other in physical effects. (Two students observing the motion of the metal wheel felt it should move counterclockwise, (((why?))) and get a twenty-thousand volt spark, jumping from one contact to the other. A moving wheel, showing heat-induced changes of magnetic permeability in metals and of rubber-band contractions are echoing each other in physical effects. (Two students observing the motion of the metal wheel felt it should move counterclockwise, (((why?)))

Prominent Writers

B.C. Slates Conference

Prominent writers, critics and editors will participate in a day-long Writers' Conference April 26 at the conclusion of the Fine Arts Weekend 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 Elliott 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 panel 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 Markham, author of "Unholy Roman," John Hawkes, the "Lime Wig," and Ralph Ellison, the "Invisible Man." Ellison teaches at Harvard and Hawkes at Brown.

The "Breaking Into Print" workshop will meet at 12:30 p.m., with Riley Hughes, professor of English at George Washington University and author of "The Hills Are Alive and Other Books, as Moderator; Other participants will be Joseph F. Dever, a 1942 Boston College graduate, former foreman of "The Stylus," university literary magazine, and author of "No Lasting House" and other novels; Abe Burak, editor of "The Writer;" and John Cushman, managing editor of Little, Brown & Co.

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

INTERVIEWS TODAY AND TOMORROW

for

SUMMER TELEPHONE JOBS

JUNIORS

SENIORS PLANNING TO ATTEND GRADUATE SCHOOL

GRADUATE STUDENTS

New York Telephone Company and Western Union Company, both operating companies of the Bell System, will hold interview today and tomorrow for summer work assignments. Applicants must have high academic standing.

These Summer Assignments are for a regular week-end, Monday through Friday, in various duties of these companies. This is an opportunity to gain valuable experience with the world's largest communications industry which could easily lead to a successful and satisfying career with the Bell System. Positions are open for men majoring in Engineering, Physical Science, Liberal Arts, and lines. Unusually attractive salary for summer employment.

Assignments open throughout most of New York State, at North Andover, Massachusetts, and Kearny, New Jersey.

Check with the Placement Office for details.

| Brattle Theatre
| the Comedie Francaise
| Moliere's "THE WOULD-BE GENTLEMAN" 5:30 7:30 9:30
| Brattle Theatre the Comedie Francaise
| Moliere's "THE WOULD-BE GENTLEMAN" 5:30 7:30 9:30
| A "turbulent story of illicit love." — Cameron, N.Y. Daily News
| A "Russian 'Gone With The Wind.'" — Buckely, Herold-Trib.
| "And Quiet Flows The Don" The epic film based on M. L. b a i l . Sholokhov's classic novel.
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| for the Connoisseurs
| MARCEL PAGNOL TRIOLOGY of the most beautiful and significant achievements in Cinema
| March 23-29 Fanny

| THE TECH
| WED. MARCH 12, 1964
| Page 7
| "The Third Pairt"
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**Notes:**
- The text contains a mix of articles, book reviews, and advertisements, with a focus on cultural events and summer job opportunities.
- The layout includes a mix of paragraphs and bullet points, with emphasis on the Summer Telephone Jobs for New York Telephone Company.
- The text is likely from a local newspaper or a campus publication, providing information on local and national events.

**Questions:**
1. What is the main focus of the article regarding the job opportunities?
2. What types of positions are available for these summer assignments?
3. Where are the assignments open throughout?
4. What qualifications are required for these positions?
5. Why is this an attractive opportunity for students?
Letters:
(Continued from page 4)
years 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 footstool to be found in it anywhere. The exposition was so smooth and bold 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
Professor of Mathematics

---Photo for Curtiss Wine '83---

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Our interviewer will be on campus Wednesday, March 29.

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Bala Cynwyd, Pennsylvania

I WAS A TEEN-AGE SLIDE RULE

In a recent learned journal (Ibid) the distinguished business chairman (Ralph "Hot- Lips" Sigafoos) of one of our most important American corporations (the Art Mechanical Dog Co.) wrote a trenchant article in which he pinpointed our gravest national problem: the lack of culture among science graduates.

Mr. Sigafoos' article, it must be emphasized, was in no way derogatory. He stated quite clearly that the science student with his gruelly curriculum in physics, math, and chemistry, can hardly be expected to find time to study the arts; in fact, what Mr. Sigafoos deprecates—indeed, what we all deplore—is the impoverished result of today's science course: graduate, who can build a bridge but can't even name a concerto, who knows Planck's Constant but not Botticelli's Venus, who are family with Freudenshirt's lines but not with Schiller's.

Mr. Sigafoos can find no solution to this hideous imbalance. I, however, believe there is one—and a very simple one. In 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.

---Photo for Curtiss Wine '83---

How will you know that he is a satisfied man...

For example, it would be a very easy thing to teach physics and music right along with physics. Students, instead of men being called upon to recite in physics class, would instead be required to rhyme their answers and set them to familiar tune—like, for instance, The Colonel Bogey March. Thus recitation would not only be shock-full of important facts but would, at 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:

Physic
I am what you learn in class.
Einstein
So I am as wise.
Newton
Is unfinished.
And Pasteur's a verset. So's Bogey.

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

Leibniz
He made the Leibniz jar.
Trolley
He made the Trolley car.
Chris
Rode a survey.
And Dieter's a verset. So is Bogey.

Once the student has mastered The Colonel Bogey March can go on to more complicated melodies like Death and The Sapphirine, the Strauss, 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 filler, that flavor, that peak or bow! Best of all, there will no longer be an unseen graving at his soul, no last little voice within him repeating that he is intellectually and physically weak. Know, jovially—that he is a fulfilled man whole man, and he will back and run in the pleasures of Marlboro as a cell rolls in new grass—content, complete, so educated—a credit to his college, to himself, and to his tabacco.

---Photo for Curtiss Wine '83---

And while he is rolling, cool wine, in the new grass, perchance he might stop long enough to try a new cigarette from winner Marlboro—an inferior, king-size Philip Mc.

---Photo for Curtiss Wine '83---

On Campus with Mr. Shulman
(Author of "I Was a Teen-age Dummy", "The Mean Lives of Dubie Gillan", etc.)

---Photo for Curtiss Wine '83---

---Printed on Bond Paper---

---Photo for Curtiss Wine '83---
Meet The Coaches

Batterman Vitale

Fencing, a unique sport at MIT, is one in which tradition, honor, and courtesy are the major considerations with the participants. Those 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 required 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 figher in the Salle is always Coach Silvio Vitale, called "Maestro" by the grunts, indicative of his title of fencing "master", of which there are only about twenty-five in the U.S. today. A Roman nose, showing 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 sable, foil, and epee, and in "three weapons", in which scores on all three of the above are combined.

Returning to Boston in 1955, 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 1950 and has been leading Tech fencers ever since. He was the head 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. Among the best are two of his proteges, Sherman Karp '50 and Joe Verdeber '60 who were New England champions and tied for first and third in the nation, respectively, while the team dominated New England all year.

In 1956 he personally coached Olympic sparring champion Bob Clotworthy before the Games that year.

Today, seven coaches have 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 freshman 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 freshmen coach's job is made much more difficult and Berrett of even more advantageous to the player.

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 sparring champion Bob Clotworthy before the Games that year.

Charlie has recently revealed another talent by writing a series of five articles in a coaching and has put on diving exhibitions throughout the Boston area. In 1956 he personally coached Olympic sparring champion Bob Clotworthy before the Games that year.

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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 Alan 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 '63 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 Walker Memorial on May 6 and 7, as 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 a high level tournament as the Easterners will be. Plenty of space is available around each of the five tables and the lighting is sufficient to give 210 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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WORLD'S LARGEST VACATION RESORT

"WHERE EVERYONE MEETS UNDER THE CLOCK"
A New Activity—MIT Hui-O-Judo

by Jeff Levering '83

A new group has appeared on the MIT scene. The forty convivial 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 Yonag 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—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 numbers 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 interrelated whole.

Learning To Fall Is First

Training in Judo begins with learning to fall, starting with break-fall steps 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 unexpected, with one's own body as the main weapon. The falls, which are the basic means of throwing, using jumps and shoves as well as the opponent's body to throw him. Relatively simple throws are the first to be introduced, illustrative 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 one's own 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, skill, 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, including chokes when a fall is impossible, are possibly a holdover from jujitsu.

Practise 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 disruption of competition.

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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