

The Tech



OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXIV. NO. 10

CAMBRIDGE, MASSACHUSETTS, TUESDAY, MARCH 16, 1954

5 CENTS

Debaters Take 1st In N.Y.C. Contest; Top 57 Colleges

Last weekend, March 12 and 13, the M.I.T. Debating Team took first place in the Seventh Annual Brooklyn College Invitation Debate Tournament, winning nine out of ten debates. The tournament was attended by teams from 58 colleges and universities, who discussed the topic, "Resolved, that the Congress of the United States adopt a policy of free trade."

Representing the Institute were Oliver D. Johns '56 and Edward B. Roberts '57 arguing on the affirmative side, and James S. Hyde '54 and F. Eugene Davis '55 on the negative. Johns also won the individual second place award among the speakers for the affirmative.

Beat Notre Dame

The affirmative team won all five rounds, defeating St. Johns, Fordham, American International College, Harvard (winners of last month's M.I.T. tournament), and N.Y.U. The negative team, with a record of four wins and one loss, provided the most important victory by defeating Notre Dame, who won the tournament the last two years and was favored again this time. They also registered wins over W.P.I., Marywood and St. Johns, their sole loss coming at the hands of Dartmouth.

This victory gave the Institute possession of a 25-inch trophy, and one leg of the three needed to retire it, as opposed to the two legs Notre Dame has already won. Second place in the tourney was taken by Temple University, while Notre Dame took third.

Good Season

This tournament was the second the team won this year, and brought its season record to 52 victories out of 73 debates. Also this week, two non-tourney victories were registered over Catholic University and University of Rochester.

Later this season the Institute will be represented in tournaments at Amherst, American International College, and West Point, as well as in many non-tourney debates. On March 25, Oliver Johns and Virgil S. Browne '57 will compete in the District 8 eliminations leading to the national finals at West Point. Coaches of the debating team are Richard M. Markus and Howard J. Thompson of the Humanities Department.

LIBRARY FILM

Bibliodynamics, the film about the Charles Hayden Memorial Library, will be shown in the Library Projection Room, 14-0615 at 4:00 p.m. on Wednesday, March 17.

Rumors Fly As Auditorium Roof Stretches Slightly

It has been rumored around campus lately that following the pouring of the auditorium dome, the three supports for the concrete spherical triangle each had moved out about six inches.

When confronted with this rumor, one of the workmen exclaimed "Six inches! Are you crazy? Why six inches and the whole damn thing would fall in!" It appears that each of the supports moved out only about a quarter of an inch, and were promptly hauled back in by powerful steel cables within the dome.

Thus far, the concrete floor for the auditorium proper has already been laid. Plans for completion of the dome call for a layer of an insulation material consisting of a mixture of concrete and asbestos through which nails can be driven. On top of this will be placed copper shingling.

Coverage Extended By The Tech To Include World, National News

Beginning with this issue, *The Tech* will devote a portion of its news columns to topics of current national and world interest.

In addition to the "Weekly News Summary" which appears elsewhere on this page, it is planned to print articles by staff members and members of the faculty on topics of current interest.

An informal survey conducted by the editors indicated that a large percentage of MIT students read no daily metropolitan newspaper with any degree of regularity. So it was felt that presentation of national and world news would close an important gap in *The Tech's* coverage, and in addition fulfill a basic obligation to the MIT community.

April Deadline Set For Candidates In TCA Art Contest

Murray Friedman '55, T.C.A. Vice President in Charge of Services, announced today that the deadline for submitting entries for the T.C.A.-sponsored Student Art Contest will be April 23. Monetary prizes will be awarded to winners, and the outstanding entries will be exhibited in the building seven lobby from April 26 to May 7. The entries will be divided into four categories: Photography, Painting, Sculpture, and General.

All entries must be original and previously unexhibited, and must be suitably mounted. All black and white photographs must be a minimum of 8"x10", untoned and unretouched. Anyone wishing to submit color photographs should contact Philip Gallagher '57, Photo Editor, *The Tech*, Box 5125, Burton.

Entries should be submitted to: Westgate—Tony de Castro '55, 239 Westgate West; East Campus—Ric Schonblom '56; Baker—Jerry Solomon '56; Burton—Philip Gallagher '57; Graduate—Charles White; Fraternities—Serge Dynen '56, SAM; Commuters—Bill Stierli '55, BI 4-6465; TCA Office.

Delinquents Ordered To Pay Fines By Bowditch Acting As Discipline Head

Last fall a letter was sent to the students of the classes of '54, '55, and '56 by the Institute Committee requesting payment of a forty-five cent assessment for damages incurred during the 1952 Field Day and pre-Field Day activities. The letter stated that failure to pay the assessment would result in further action from the Office of the Dean of Students. This action has now come. The following letter, printed in its entirety, was sent out on Friday, March 12 and is signed by E. Francis Bowditch, Chairman, Faculty Committee on Discipline. Of the twenty-five hundred students required to pay the fine, nineteen hundred have paid. Six hundred students, approximately twenty-five percent of those assessed, have yet to pay . . .

Ladies and Gentlemen:

This letter is being written to those undergraduates who have been reported by the Institute Committee for failure to pay the assessment levied by student government to defray the cost of damages to Institute property during the fall term 1952-53.

The Committee on Discipline, meeting with Mr. Dean Jacoby, President of the Institute Committee, and the Judicial Committee of student government, have reviewed all the facts in this case and the levy itself in relation to Institute regulations and the Constitution of the M.I.T. Undergraduate Association, of which you are members. We find the following:

The assessment was levied to pay for damages obviously caused by students, but to the best of our ability to find out, by students unknown. The catalogue clearly states that costs of repairing such damage "may be assessed equally upon all the students of the school." The Institute's administration left to student government the decisions as to how these costs should be met. The Institute Committee voted the assessment referred to above in accordance with Article IV, Section 3, of the M.I.T. Undergraduate Constitution. Accordingly, the action of your student government is considered by the Committee on Discipline to be your own act and decision and therefore binding upon you.

It has consequently been voted unanimously by the Committee on Discipline as follows:

1. That all students registered as undergraduate students in the fall term 1952-53, and also registered in the spring term 1953-54, are required to pay the assessment of 45-cents.
2. That those in arrears may make payment at the Institute Committee office in Walker Memorial by 5 p.m., March 19.
3. That a fine of \$5 be imposed for failure to make payment by 5 p.m., March 19, 1954.
4. That payments (including \$5 fine) after March 19 be made at the Bursar's Office, Room 4-110.
5. That failure to make payment by the end of the current term will result in the withholding of grades until payment is made.

Your prompt attention to this matter will be appreciated. If your name is on the list in error, please report to the Institute Committee Office in Walker Memorial.

Sincerely yours,

E. Francis Bowditch, Chairman
Faculty Committee on Discipline

March 12, 1954

Weekly News Summary

Senator Joseph R. McCarthy of Wisconsin continued to dominate the front pages of the nation's newspapers last week.

McCarthy vs. the Army:

The Republican administration, after a year of inaction, struck out against the Senator on several fronts. An Army report was released charging the Senator and members of his staff (especially committee counsel Roy Cohn) with attempting to obtain special treatment for G. David Schine, a former committee employee who had been drafted into the Army.

McCarthy denied the Army's charge, and countered with one of his own: that the Army had attempted to use the report to "blackmail" him into stopping his investigations of alleged Communist infiltration into that service.

But as the week ended, the Secretary of the Army's indictment of McCarthy's actions remained without a satisfactory rebuttal: "You . . . (McCarthy) know full well that after commissions were refused (to Schine) by all three services on grounds of lack of qualifications, your representatives continuously urged time off, special treatment and even you at times asked special assignment in New York City, thus avoiding any possibility of overseas service for Private Schine." Plans are being made for a Senate committee other than McCarthy's to investigate the Army's charges.

On the floor of the Senate, Ralph W. Flanders of Vermont became one of the first Republican Senators to openly clash with McCarthy, calling him "a one-man party" who was "doing his best to shatter" the G.O.P.

The most telling blow of all was delivered by the Vice President, Mr. Nixon in a radio and television speech Saturday night, which was advertised as an official Republican reply to a speech delivered by Adlai Stevenson the week before. Nixon stated that McCarthy's own activities have made him (McCarthy) an issue and thereby diverted attention from the needed exposure and removal of Communists from the government.

The Democratic Line:

The Vice-President's speech was widely interpreted as a Republican attempt to dissociate the administration completely from Senator McCarthy. Democratic National Chairman Stephen Mitchell made it plain earlier in the week that the Democrats would "make it clear" that General Eisenhower was "responsible for what happens in his administration." That they would not

(Continued on page 2)

15 Living Groups Set To Compete In All-Tech Sing

This year's All Tech Sing will take place this coming Saturday, March 20, at 8:30 p.m. in Morris Hall in Walker Memorial.

Professor Ted Wood, Jr. of the Humanities Department will be the master of ceremonies. The judges are to be Mrs. Margaret Duesenberry, Director of the Wellesley College Choir and Orchestra; Arthur L. Pike, Instructor in the Electrical Engineering Department and past president of the MIT Choral Society; Professor Avery A. Ashdown of the Chemistry Department, and Professor John B. Wilbur of the Civil Engineering Department, who is the author of "Arise Ye Sons of M.I.T."

Fifteen Entries

Fifteen living groups will compete for the honor of being recognized as having the best singing team, including Alpha Epsilon Pi, Alpha Tau Omega, Beta Theta Pi, Chi Phi, East Campus, Kappa Sigma, Phi Delta Theta, Phi Gamma Delta, Phi Mu Delta, Sigma Alpha Epsilon, Sigma Phi Epsilon, Student House, Theta Chi, Walker Staff, and the Women's Dorm.

Tickets, priced at 75 cents, go on sale today in the lobby of Building 10, and will also be sold at the door.

A jazz combination from the Technicians will provide entertainment during the intermission.

New Trophy

The first prize winner will be awarded an 18-inch silver trophy cup, which it will keep until next year, and can retire after winning three times. Sigma Nu retired the trophy last year and a new one has been provided. Certificates will be awarded to the second and third place winners.

Egbert, a special award, will be (Continued on page 6)

Damage Is Minor As Burton Alarm Brings Fire Dept.

Ten units of the Cambridge Fire Department plus a fire chief and "several representatives of the MDC" responded to an alarm turned in Sunday afternoon at Burton House, according to a Burton informant. A fire in the incinerator smoked out the residents of the fourth floor and drove the 300 students who obey rules out into the chilly streets. Disdaining the use of water, the firemen leaped from their trucks with axes and the conflagration was soon extinguished.

ERRATUM

The Tech wishes to apologize to E. George Eigel, Jr. for neglecting to include his election to the office of Permanent Secretary-Treasurer of the Class of 1954 in our reporting of the results of last Tuesday's voting.

W. Davis Named New President Of Course 2 Society

Warren J. Davis '54 was elected president for the spring term of Pi Tau Sigma, honorary mechanical engineering fraternity, at a recent meeting.

The organization's new vice-president is Thomas Street '54. Robert D. Wilkes '55 is corresponding secretary, and Donald R. Welsh '55, recording secretary.

David L. Richardson '54 was named treasurer for this school year.

Professor Mason To Be Interviewed On Station WMIT

Professor and Mrs. Samuel J. Mason, Faculty residents at Baker House, will be guest on WMIT's "This Happened Today" tomorrow night at 7:45 p.m. Professor Mason, of the Department of Electrical Engineering, has been at Baker since the beginning of last semester.

Mason, when contacted by *The Tech*, stated that since he has been living in the dormitories, he has "come to really appreciate the students' range of interest in other than academic problems, and their maturity."

The couple will be interviewed by Lee R. McGuire, Jr. '56, News Director of the station.

LITERARY SUPPLEMENT

Contributions for *The Tech's* fourth Annual Literary supplement are now being accepted and should be sent to Sheldon Dick, Box 2101, Burton House, 420 Memorial Drive; or care of *The Tech*, Walker Memorial. Students are urged to submit their short stories, poetry, prose, or other forms of creative writing.

The Tech

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Tuesday, March 16, 1954

No. 10

OFFICES OF THE TECH

News, Editorial and Business—Room 020, Walker Memorial, Cambridge 39, Mass.
Entered as second class matter at the post office at Boston, Massachusetts.

Calendar of Events

from March 17 through March 24, 1954

WEDNESDAY, MARCH 17

Mechanical Engineering Department. 2.082 Lecture: "Electric Power Systems and What Makes Them Tick, from the Point of View of Planning, Design, and Operation." Mr. Robert Brandt and Mr. Herbert R. Stewart, both of New England Power Company. Room 3-370, 11:00 a.m. Students and staff invited.

Food Technology Department. Food Industry Seminar: "New Commercial Production of Food Factors by Chemical Synthesis and Its Application in Food Processing." Dr. Gustavus Siemers, Hoffmann-La Roche, Inc., Nutley, New Jersey. Room 16-310, 2:00 p.m.

Physics and Mathematics Departments. Operations Research Seminar: "Highway Traffic Analysis Problems." Prof. Alexander G. Bone. Room 6-219, 3:00-4:00 p.m.

Mathematics Department. Lecture Series: "Arithmetic Genera and the Theorem of Riemann-Roch." Dr. Fritz Hirzebruch, Institute for Advanced Study. Room 2-349, 4:00 p.m.

Catholic Club. Lecture on Church History. Monsignor Murray, Pastor of Sacred Heart Church, Linsdale. Room 2-190, 5:00 p.m.

M.I.T. Graduate House. Dinner and lecture: "Experiences in the Mediterranean with the Electronic Flash." Prof. Harold E. Edgerton. The Campus Room, 5:45 p.m. All graduate students and their guests are invited.

Chemistry Department. Harvard-M.I.T. Physical Chemistry Colloquium: "Thermodynamic Measurements of Ultracentrifuge Rotor Temperature." Prof. Gerson Kegeles, Clark University. Harvard University. Mallinckrodt MB-23, 8:00 p.m.

THURSDAY, MARCH 18

Biology Department. Colloquium: "The Structural Basis of Contraction in Striated Muscle." Dr. Hugh E. Huxley and Dr. E. Jean Hanson. Room 16-310, 4:00 p.m. Tea will be served in Room 16-711 at 3:30 p.m.

Physics Department. Colloquium: "Reciprocity Relationships in Optics." Prof. Hans Mueller. Room 6-120, 4:15 p.m.

Lecture Series Committee. Film: "The House on 92nd Street." Room 10-250, 5:00, 7:30, and 9:30 p.m. Admission: 30 cents.

Staff Players of M.I.T. Supper Meeting. Lecture and demonstration on makeup, Barbara Horrigan. Faculty Club, 6:30 p.m.

FRIDAY, MARCH 19

Mechanical Engineering Department. 2.082 Lecture: "Electric Power Systems and What Makes Them Tick, from the Point of View of Planning, Design, and Operation." Mr. Robert Brandt and Mr. Herbert R. Stewart, both of New England Power Company. Room 3-370, 11:00 a.m. Students and staff invited.

Electrical Engineering Department. Advanced Seminar for Whirlwind I: "Memory Test Computer (MTC)." Mr. Philip R. Bagley, Room 10-275, 3:00 p.m.

Mechanical Engineering Department. Seminar: "Measurements of Thermal Conductivity from 1°K to 300°K, with Illustrative Apparatus." Dr. Robert Berman. Room 3-370, 4:00 p.m. Coffee will be served in Room 3-174 from 3:30-4:00 p.m.

Graduate House. Annual Graduate School Spring Formal. M.I.T. Faculty Club, 9:00 p.m.-1:00 a.m. Open to graduate students and their guests. Formal dress optional.

Society of Scabbard and Blade, Company G-5. M.I.T. Military Ball. Sheraton Plaza Hotel, 9:00 p.m.-1:00 a.m. Open to the public.

SATURDAY, MARCH 20

M.I.T. Musical Clubs. All-Tech Sing. Morss Hall, 8:00 p.m.-12:00 midnight.

SUNDAY, MARCH 21

M.I.T. Society of Arts. Popular Science Lecture: "Fresh Water from the Sea." Prof. Thomas K. Sherwood. Room 10-250, 4:00 p.m.

MONDAY, MARCH 22

Mechanical Engineering Department. 2.082 Lecture: "How a Consulting Engineering Office Operates." Mr. William P. Saunier, Project Manager, Jackson and Moreland. Room 3-370, 11:00 a.m. All interested students and staff members are welcome.

Mathematics Department. Lecture Series: "Expansions in Eigen functions of Elliptic Differential Operators." Dr. Lars Garding, Lund University, Sweden, and Institute for Advanced Study. Room 2-349, 4:00 p.m.

TUESDAY, MARCH 23

Biology Department. Colloquium: "Bound Forms of Pantothenic Acid as Growth Factors for Microorganisms." Dr. Gene M. Brown, Chemistry Department, University of Texas. Room 16-310, 4:00 p.m. Tea will be served in Room 16-711 at 3:30 p.m.

Committee on Machine Methods of Computation. Seminar: "Spheroidal Wave Functions." Mr. F. J. Corbato and Mr. J. D. C. Little. Room 12-182, 4:00 p.m.

Christian Science Organization. Subject: "Where is Peace?" Tyler Lounge, Walker Memorial, 5:15 p.m.

WEDNESDAY, MARCH 24

Mechanical Engineering Department., 2.082 Lecture: "How a Power Plant is Designed." Mr. William P. Saunier, Project Manager, Jackson and Moreland. Room 3-270, 11:00 a.m.

EXHIBITIONS

A selection of paintings, photographs, enamels, and advertising designs by Gyorgy Kepes will be on exhibit in the New Gallery of the Charles Hayden Memorial Library through March 27. The exhibition is sponsored by the Institute of Contemporary Art, Boston. Hours: Monday through Friday, 9:00 a.m.-5:00 p.m.; Saturdays, 2:00-5:00 p.m.

An exhibition of photographs representing the modern Italian movement in architecture and design will be shown in the Lobby of Building 7 through March 27.

Twenty-nine photographs selected from the Ninth Open Exhibit of Technical Photography held in Los Angeles will be displayed in the Photo Service Gallery, Basement of Building 11, through March 29. The photographs are a part of the Photographic Society of America's 1953 International Exhibition of Photography.

CALENDAR OF EVENTS

The Calendar of Events appears in THE TECH on Tuesday with announcements for the following eight days (Wednesday through Wednesday). Notices, typewritten and signed, must be in the office of the editor, Room 7-204, not later than noon on Thursday prior to the date of publication. Material for the Calendar of March 24-31 is due March 18.

as we like it

Last week saw concerts by M.I.T.'s two instrumental groups, one Friday night at Tufts college by the Concert Band, and one Sunday night by the Symphony Orchestra.

M.I.T. Concert Band
John Corley, conductor
Tufts College Jackson Gymnasium

Program

Military Symphony in F
Francois Joseph Gossec
First Suite in E flat for Military Band
Gustave Holst
Suite Francaise
Darius Milhaud
Tunbridge Fair
Walter Piston
Divertimento for Band
Vincent Perischetti
March Baroque
Andrew Kazdin, '56

A great deal can be accomplished in five years. This was conclusively shown Friday night at Tufts College by one of the Institute's youngest organizations, the Concert Band.

Under the direction of Mr. John Corley, the 54 piece group demonstrated beyond the shadow of a doubt that they are an outfit of which M.I.T. can be proud. Mr. Corley has under his baton the makings of one of the finest concert bands in the East.

The group is unique among college bands for two reasons. Where but at the Institute can one find musicians who will devote one evening a week rehearsing for concerts which no one ever attends and for which they receive no recognition. Furthermore many of these people are excellent "top-flight" soloists such as Darrol Delong who did so perfect a job on the trumpet passages in the Milhaud.

They are unique also in respect to their programming. They are one of the few groups to present concerts exclusively of original band music. Since practically all of the original band repertoire is of the past few years, they have developed themselves to a point where they are more than capable of handling tricky rhythms and such weird pieces as the Piston "Tunbridge Fair".

Mr. Corley's interpretation of the other numbers on Friday's program

(Continued on page 6)

Prevailing Winds' Source Is Found In Research Here

Energy from day-to-day storms, flowing at the rate of several hundred billion horsepower, generates the prevailing winds such as trade winds and jet streams which encircle our globe. This conclusion, which upsets earlier theories of how the world-wide motions of the atmosphere are maintained, comes from a long-term research project in the Meteorology Department here at the Institute.

This new discovery is the result of global wind statistics which have been assembled and analyzed during the past five years by a team under the direction of Professor Victor P. Starr and including Dr. Edward N. Lorenz and Dr. Hsiao-lan Kuo of the Meteorology Department and Dr. Robert M. White of the Air Force Cambridge Research Center which has supported this project.

"Heat Engines"

According to this new theory, the world-wide motions of the atmosphere are driven by what may be described as many small "heat engines." These engines are the great storm areas which bring about our weather changes; their energy comes from the interaction of warm and cold air masses. The prevailing winds are in fact the result of the high and low pressure they carry across the land, a complex interrelationship of forces larger than any man has ever produced.

The raw material for the studies came from balloon ascensions over 250 weather stations throughout the Northern Hemisphere. Wind measurements made at altitudes up to ten miles showed wind velocities up to 200 miles per hour.

News Summary

(Continued from page 1)

let the Republicans "keep Eisenhower with the angels and McCarthy in the muck."

Victory in Caracas:

Some brilliant oratory by the Secretary of State, aided by the prospect of a liberalized Latin-American economic policy by this country, persuaded the Tenth Inter-American Conference (in Caracas, Venezuela) to adopt a strongly worded resolution condemning Communist infiltration into the Western hemisphere. The vote in favor of the American resolution was 17 to 1. Guatemala cast the only dissenting vote. Mexico and Argentina abstained—Mexico because it felt that the wording of the American resolution might permit interference in the internal affairs of Latin-American countries.

Instant Retaliation?

The nation's foreign and military policies continue to remain confused and obscure in the public mind. At his press conference, the President was asked whether the United States would enter the Indo-China war if the American technicians stationed there were fired upon by the Communists. He stated that he would not under any circumstances involve the United States in war unless he had first obtained Congressional approval. Nobody seemed to know where this put the "New Look" military policy based on "massive instant retaliation" for any aggression committed against the Western world. The Secretary of State was in Venezuela and unavailable for comment, and the Senate Armed Services committee was too busy trying to pull the Army's chestnuts out of the fire to ask any questions either.

Electronic ENGINEERING Majors

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Photo by Gallagher

Several couples who attended the '56 Class Dance held at Baker House last Friday nite.



On-the-job

Summer Training in Industry

(Military training or practice courses will not prevent participation)

Summer Program (5-10 Weeks)

Technical problems in production . . .
development . . . industrial engineering
. . . equipment design

New Workshop Program (2 Weeks, Aug. 23 - Sept. 3)

Intensive survey of factory management
. . . process and production development
. . . or equipment design as a career

Travel expenses and salary paid

Opportunities at:

- | | | |
|----------------------|---------------------|------------------|
| Cincinnati, Ohio | Baltimore, Maryland | Dallas, Tex. |
| Quincy, Mass. | Chicago, Illinois | Sacramento, Cal. |
| Staten Island, N. Y. | St. Louis, Mo. | Long Beach, Cal. |
| | Kansas City, Kans. | |

Sign up for interviews, to be held March 23.
See Placement Office, Division of Industrial Cooperation.



Placement News

Date	Company	Notice 3373
March		
16	Chance Vought Aircraft	
16	Northrop Aircraft, Inc.	
16	Esso Standard Oil Co.	
16	Whirlpool Corp.	
16	Congoleum-Nairn Inc.	
16	U. S. Dept. of Agriculture	
16	Bureau of Ships, Dept. of the Navy	
16	Minnesota Mining & Manufacturing Co.	
16, 17	Reynolds Metals Co.	
16, 17	Bechtel Corp.	
17	Leeds & Notrhrup Co.	
17	Mechanical Handling Systems Inc.	
17	Pittsburgh Consolidated Coal Co.	
17	Eclipse-Pioneer	
17	The Lummus Co.	
17	Reliance Electric & Engineering Co.	
17, 18	Jet Propulsion Lab, Cal. Tech	
17	Waterways Experiment Station	
18	Gillette Safety Razor Co.	
18	Republic Flow Meters Co.	
18	The Trane Co.	
18	Hood Rubber Co.	
18	American Enka Corp.	
18	Stauffer Chemical Co.	
18, 19	Standard Oil Co. of California	
18, 19	American Brake Shoe Co.	
19	Kimberly-Clark Corp.	
19	National Co., Inc.	
19	Chicago Pneumatic Tool Co.	
19	Portsmouth Naval Shipyard	
19	Standard Oil Co. of Indiana	
19	Stratos Division, Fairchild Engine & Airplane Corp.	
		Notice 3375
16	Link Aviation	
19	Sylvania Electric Products, Inc.	

Graduate Student Formal Dance Is Scheduled Friday

A Graduate Student Dance will be held this Friday, March 19, at the Faculty Club. Hal Reeves' orchestra will provide the music at the dance, for which formal dress is optional. Tickets, priced at \$3.00 per couple, are now available at the Graduate House desk. Refreshments, including punch, will be provided. In addition, the faculty club will make available a bar just outside the dancing area.



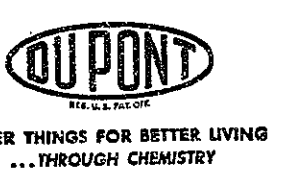
THE DU PONT DIGEST

What do YOU look for in an employer?

- Undoubtedly, you'll want most of the following characteristics:
1. Job satisfaction—the chance to do work you really enjoy.
 2. Recognition—the assurance that good work will be noticed, appreciated, and properly rewarded.
 3. Opportunities for advancement—a growing company can provide them.
 4. Security—the knowledge that a company is both stable and progressive.
 5. Pride—a feeling that your company is respected by the public and produces goods which contribute to a better way of life.
 6. Good companionship—a factor which contributes greatly to happiness on the job.
 7. Good pay—not in salary alone, but also in terms of vacation plans, pensions, and other benefits.
 8. Safe working conditions.

SOON AVAILABLE for student ASME chapters and other college groups, a 16-mm. sound colormovie—"Mechanical Engineering at Du Pont." For further information, send post card to E. I. du Pont de Nemours & Co. (Inc.), 2521 Nemours Building, Wilmington, Delaware.

How can you obtain this kind of information in advance?
One of the best ways is to discuss the matter with an acquaintance already working for the company you are considering. You will also find it helpful to consult your college placement officer, your professors and company representatives visiting your campus.
The selection of an employer is one of the most important decisions you'll make. It justifies considerable thought and effort.



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Brown Frosh, Brookline High Bow To Frosh Swim Squad

The Freshman Swimming team closed its dual meet season this week by splashing to victories over Brown University and Brookline High School. The double wins give the Engineers a fine eight won, three lost record for the season, as Brown was sunk 47-28, and the Wealthy Towners bowed 44-31 in the finale.

Against Brown, Doble, Captain Cotter and Salz got the Techmen off to a flying start by taking the Medley Relay in 1:33.2. John Brosens of France took a second in the 200 free, while Marty Gerson grabbed second place in the 50. Top point getter Russ Mallett copped first place in his specialty, the Individual Medley, to give Tech a 19-13 edge, and Dave Bryson, Frosh diving ace, and Syl Pomponi increased the bulge with first and second in the dives. Going into the 100 Breaststroke the Techmen's lead had slipped to 32-27, and again Mallett came through with a vital first, with teammate Cotter second by a whisker. These points gave MIT the meet, but a fighting 200 Yard Freestyle relay team of Barnes, Morrill, Roebelen and Westerhoff came up with their finest times of the season to grab this final relay, and make the tally 47-28.

In the Brookline fracas, Gerson and Salz got the Merrittmen off with first and second, respectively, in the 50 yard free style, and Mallett followed with another fine win in the 100 Breast in the good time of 1:10.3. Brosens and MacIntosh, the 200 twins, took first and second in their specialty, and Les Orloff, Frosh 100 star, took first in the 100, Dave Lightbody, '57, taking second to make the score 34-11. All Tech needed was second and third in the dives to clinch the meet,

Tech Tennismen Start Practice, Melavas Captain

The Tech netmen will begin practice next week with a large nucleus of returning lettermen and frosh standouts. Coach Jack Summers is confident this season will prove one of the most successful in recent years.

Led by Captain John Melavas '54, highly ranked in intercollegiate play, the tennis team will face powerful opposition in Williams, Amherst, B.U., R.P.I., Holy Cross, Brown, and Harvard, as they try to improve on last year's winless season.

Returning lettermen who are expected to take some of the burden off Melavas' shoulders are squashers Paul Goldin '54, Hossein Nasr '54, and Dick Lane '54, along with Joe Clumpner '55. Also expected to aid the squad are Bruce Backe '54, who was out with injuries most of last year, last year's frosh standouts Al Hahn and Larry Moss, and transfer student Rene de Leon.

All those interested in turning out for the frosh or varsity squads are urged to be at the tennis smoker at Litchfield Lounge, Friday, March 19, at 5:00 p.m.

The rejuvenation of the other Engineer varsity racket squad, the squash team which enjoyed its most successful season in recent years with a four won and four lost record and the Massachusetts State 'B' and 'D' crowns, may be a sign of the improvement of the tennis team, the other Tech crew team.

Melavas, who is also a squash standout, Goldin, Nasr and Lane helped to make the squash season a fine one, may, and it is to be hoped, will, an equally excellent one. Unfortunately, the top squashers are, as were the top squashers, all seniors. Melavas, Goldin, Nasr, Lane and Backe are all playing their last season for MIT. If the tennis season should come close to equaling the squash year, the Engineers must still start rebuilding. Howie Cohen and Thomas Thomas, standouts of the frosh squash club, may be a help to future varsity tennis teams as may Marty Gilbert '57, a freshman from San Bernadino, the town that produced the great Jack Kramer, perhaps the outstanding tennis player of the previous decade.

and at this point Dave Bryson tallied the highest point total he has amassed this year, 52.15 to take a first and clinch the meet for the Engineers. Again the 200 relay team, Barnes, Calvert, Roebelen and Westerhoff flew through the event to win, but were disqualified on a technicality, after which the exuberant Frosh heaved their Coach, Roy Merritt, into the water to celebrate the conclusion of a great season in the Pool.

Swim Team Wins, Nips B.U., 48-36 Season Slate: 6-6

The Tech swim team ended its season in fine style by swamping Boston University, 48-36. The meet started with the MIT medley relay team of Bob Jantzen '56, Frank Buck '56 and Captain Don Bailey '54 once again placing first. Quinn Solem '56 and Tom Hamilton '55 then won the 220 yard free-style and the 50 yard free. John Roberts '56 and Bob Sullivan '56 placed third in those races. Hal Cohen '55 placed third in the individual medley followed by eight points more as Jim Dugan '55 and Manny Tidor '54 captured first and second in the div-

(Continued on page 5)

Hard Workouts Begin For Crew, Opener April 24

The Tech crew has settled into the full grind of spring practice. Turning out for their first drills on Registration Day, the oarsmen found that they were forced to stay indoors until the layer of ice which covered the Charles had thawed. Once on the river, the crewmen started upon a vigorous schedule of practice sessions to make up for lost time. Finding themselves weeks behind the other major national squads who enjoyed superior training conditions and facilities, was a main factor in spurring the rowers on.

Condition A Keynote

Concentrating on conditioning, the basis for any athletic competition, and advanced rowing technique, Long Jim McMillin, head crew coach, is focusing upon turning out a rugged yet polished eight which will match the record of the finest of previous Engineer crews.

The crew is encountering its usual early season adversaries in the inclemency of the weather and the always troublesome time element. The late winter cold coupled with the ensuing high winds and rough water cut down the effectiveness of the workouts. The early sunset combined with the consistently rugged Institute schedule often necessitate the continuance of practice well into twilight. Progress, however, continues despite these traditional foes.

Competition Keen

Competition appears to be unusual-

ly keen this year for all boats. Vieing with such veterans of last year's Varsity heavyweight boat as Captain Royal C. Riedinger '54, George Conway '54, and Stan Kolodkin '54 are many far less experienced but still highly talented younger oarsmen. The competition is equally keen for the other three upperclass crews, the lightweight varsity and junior varsity and the heavyweight J.V.

Coach Ron McKay, last year's varsity Captain has had to buck all the drawbacks facing the varsity and J.V. crews as well as the greatest hindrance of all towards successful sports teams, the lack of experience which necessitates the added work of teaching many of the frosh crew squad of fifty odd men, the rudiments of rowing. Despite the greenness of the '57 oarsmen and the woeful practice conditions, Ron has faith that his crew will be a representative one.

Season Starts Soon

The crew season begins with the traditional three-way meet between the Charles River rivals, MIT, Harvard, and Boston University, which will be held on the Charles April 24. A week later the oarsmen travel to New Jersey where the great Princeton crew team will play host to Tech, Harvard and Rutgers. On May 7, the team moves to New York to face Columbia and B.U. in a triple meet on the Harlem river. The eastern sprint championships will be held at Washington, D.C. May 14, and the Engineers will compete against the top crews in the area. Then, on June 19, the traditional Intercollegiate Rowing Association regatta, once the Poughkeepsie Regatta and held this year

Rifle Team Victor, Cop NE. Champs Fifth Straight Year

Last Saturday, the Beaver rifle team defeated the Coast Guard Academy to win for the fifth year the New England Collegiate Rifle Championship. The MIT score of 1424 was high among the other finalists of Coast Guard 1417, Dartmouth 1410, and B.U., 1394.

Leading the Techmen to victory was Captain Dick Tooley with a score of 287. He was followed by Dick Oman 287, Arnold Breeden 284, Phil Rans 284, and Ev Schwartzman 282.

Coach Herb Voelcker expressed his confidence over the results of the match. For the National Championships next week, he is planning to shoot one team at B.U. and another at the Maritime Academy in hopes of coming out top dog in both sectionals. Maryland, victor at the recent MIT invitational meet, should be the favorite.

near Syracuse will draw the Tech crewmen. The I.R.A. meet which perennially determines the national championship will pit the Beavers against Navy, who swept the meet last year with their boat which had been Olympic champions, Princeton, Harvard and Washington, always a top-flite crew as well as the rest of the nation's standout boats.



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beaver barks

Hopes High For Next Year As Winter Season Closes

by Jack Friedman '57

"In the spring a young man's fancy lightly turns to thoughts of baseball," the often used paraphrase reads. And despite cold winds and snow, spring is but a scant week away. Besides the Intramural All-Stars, whose schedule goes on almost as long as the National Hockey League, the winter sports season at Tech is over.

If this were another school or another year, this finis might call for nostalgia, might bring relief that one more miserable set of teams had come through their season unscathed by victory. This year, however, it's a different story.

The basketball team . . . finished its season with its most successful record in six years . . . has the opportunity to turn in a really fine slate next year . . . has three or four top-flight players coming back for 1954-55 . . . will have Dee Vergun '56 . . . may play next year in the cage, where the crowds it should deserve can be accommodated . . . will be the most colorful Tech squad in years . . .

The squash team . . . had its most successful season in years . . . won the state 'B' and 'D' crowns . . . had Paul Rudzinski '54, third rated intercollegiate player . . . Paul Goldin '54, whose consistently fine play would have earned him a high national rating had he not been playing No. 2 to Rudzinski . . . has Howie Cohen '57 and the rest of a fine freshman team coming up next year . . . has Jack Summers, the finest college squash coach around . . .

The track team . . . had a pair of national indoor champions in soph hurdler Warren Lattof and high-jumper Bill Antoine '56 . . . won a Millrose mile relay title on a great anchor leg by Ian Williams '54 . . . consists largely of sophs like Antoine, Lattof, John Morefield and Ray Smith and juniors like Syd Klein, Harry Schriber and Larry Berman . . . has been called by some informed spectators second only to Yale in New England . . . seems to have inspired such awe at Harvard that the Cantabs are afraid to schedule a meet with them . . . should go undefeated this spring . . .

The hockey team . . . will have nine experienced letter men returning including Harold Wells '55 and Gaylord Schwartz '56 who received all New England honorable mention . . . might, God, the Institute and Alumni willing, have their own rink next year . . .

The swimming team . . . closed its season with wins over B.U. and W.P.I. and a creditable 6-6 record . . . should be greatly improved next year with the acquisition of several standouts from this year's frosh squad which turned in a fine eight won and three lost slate . . .

The rifle team . . . won its fifth straight New England title . . . has a chance to cop the Nationals . . . held a successful invitation meet . . . should continue on its winning path next year . . . The wrestling team . . . will

lose no one through graduation and should be improved next year . . . has

(Continued on page 6)

Swimmers Win

(Continued from page 4)

ing. Another eight points were gained for Tech as Captain Don Bailey placed first and second in the 100 yd. free style. Frank Buck won the 200 yd. breaststroke as Fred White '56 gained a close third. Mike Nauenberg '56 and Bob Jantzen took second and third in the 200 yd. backstroke as did John Roberts and Quinn Solem in the 440 yd. free style.

This win culminated the late season drive by the swim squad which brought the record up to a final slate of six wins and six losses. This late season drive included wins over U.S.C. G.A., Holy Cross, Tufts, R.P.I., W.P.I. and Boston University and losses to Union College and Brown.

Next year's swim varsity should greatly improve on this season's mediocre record with almost all swimmers returning and with the addition of several standouts of this year's top flite frosh squad.

All-Stars Face Brandeis, Cantabs In Coming Tilt

The intramural all-stars, fresh off their recent tangle with the varsity, will clash with the intramural champions and runnersup of Brandeis University at Waltham this Thursday evening.

The all-star lineup will consist of big Dimitry Vergun, guards Paul Van Alstyne and Dick Hurlbut, and forwards Bill Missimer and Mike Kennedy. Also slated to see plenty of action are Hilly Prager, Tom Comporato, John Stelling and John Funkhouser.

The Brandeis quintet is highly rated having waged a nip-and-tuck battle with the Harvard all-stars. They feature a tight man-to-man defense with a 6'4" football end as their center. The all-stars, however, must be conceded the favorite role off their varsity performance.

Next week, the all-stars will face their biggest tests when they meet the Tuft's all-stars and Leverett House, the powerful Harvard intramural champions. The latter contest, to be played Wednesday evening, at Walker Memorial, should be the feature game of the extramural season. The Leverett 'Bunnies' have three players who made the starting five of the Harvard all-stars, and should provide plenty of competition for Vergun and company. A big turnout would give the all-stars a boost in their quest to defeat Harvard.

The final game of the year will find the all-stars squaring off against Boston University shortly after spring vacation.

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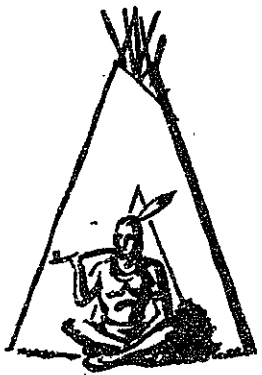
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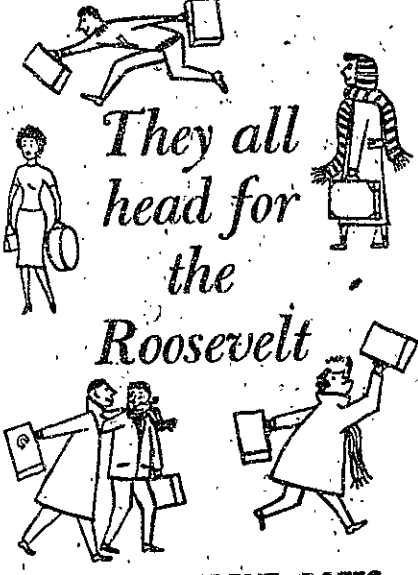
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W.M.I.T. Schedule Of Classical Music

Tuesday, March 16

8-10 CONCERT HALL
Ravel: Concerto for the Left Hand
Berlioz: Harold in Italy
10:15-12 MUSIC IMMORTAL
Schumann: Etudes Symphonique
Elgar: Symphony No. 1
Debussy: Eventyr

Wednesday, March 17

8-10 CONCERT HALL
Händel: Royal Fireworks Music
Ippolitov-Ivanov: Caucasian Sketches
Grieg: Peer Gynt Suite No. 1
10:15-12 MUSIC IMMORTAL
Mendelssohn: Midsummer Night's Dream
Beethoven: Violin Concerto
Chopin: Etudes

Thursday, March 18

8-10 CONCERT HALL
Stravinsky: Capriccio for piano & orchestra
Vivaldi: Pastorale for flute
Beethoven: Fantasia in G minor
10:15-12 MUSIC IMMORTAL
English Madrigals
Couperin: Johann Christoph Bach
Vivaldi: La Pastorale

Friday, March 19

8-9 CONCERT HALL
Mozart: Piano Concerto No. 20
Chopin: Sonata No. 2
9-10 Strictly for Savoyards
Gilbert & Sullivan (from Radcliffe)

quite well. Mr. Holden, assisted by Professor Klaus Liepmann playing the difficult concertmaster's part, gave a fine interpretation of the Hindemith. Professor Liepmann's solo passages were performed nicely. It was during this piece that one had a good opportunity to listen to the quality of the Mt. Holyoke strings, which provided great support for M.I.T.'s rather weak string section.

Following the intermission, Pro-

fessor Charles Rosen of the Institute language staff, joined the orchestra to give forth a thrilling interpretation of the Beethoven. Professor Rosen, a young man whose whole life and career is ahead of him, is a musician who should be on the concert stages of this country rather than on a university teaching staff.

His technique is impeccable, his tone excellent, and his interpretation inspiring. His performance of the concerto was one filled with beauty

and understanding, and was received by the small audience with great enthusiasm. Professor Liepmann and the orchestra gave their "all" in support of the soloist.

The final number of the evening showed the best in both the orchestra and the conductor, Professor Liepmann, as he presented a highly commendable performance of the "Great Gate of Kiev", in all its resplendent tonal magnificence.

D. E. S.

REWARD

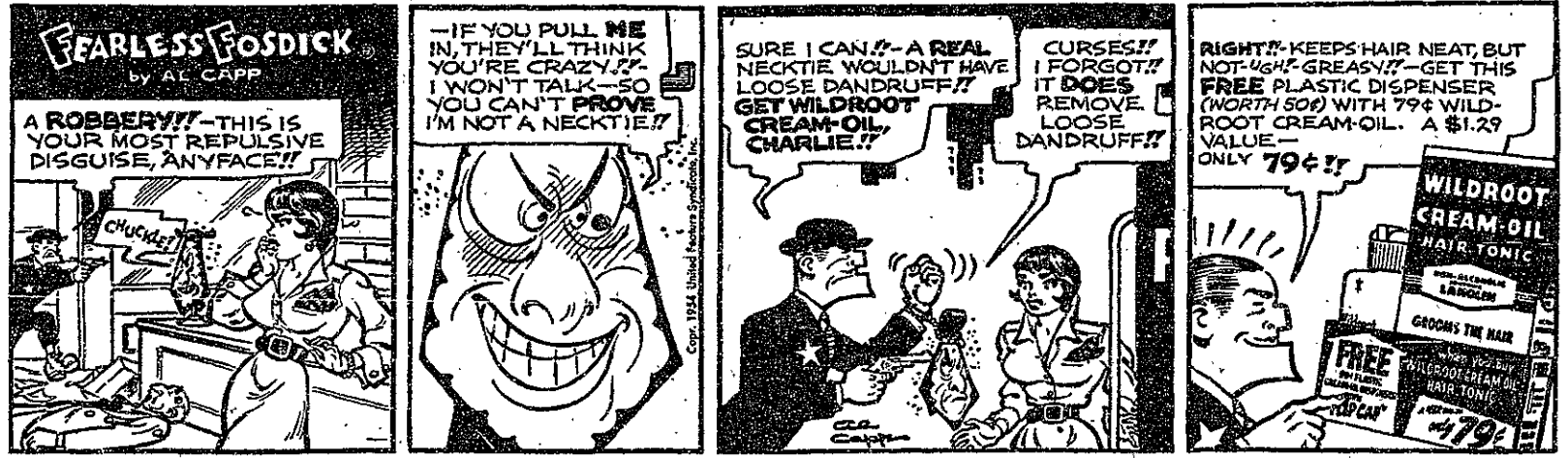
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Beaver Barks

(Continued from page 5)

an ace in John Kennaday '55 . . . The fencing team . . . boasts one New England champion, foil titleist Frank Davenport '54 . . . The winter sports situation at MIT can be summed up in one sentence, things look good for next year.

Tech Sing

(Continued from page 1)

given to the group with the best presentation. According to Jack Dennis, Chairman of the All Tech Sing Committee, only one person at the Institute knows the true identity of Egbert, and the following statement is all that can be made public at the present time: "If Egbert were made of solid gold, he would be worth about \$11,000."

As You Like It

(Continued from page 2)

bore this out equally, and it is difficult to single out any particular piece as being done finer than the others. It was only to be regretted that the program lacked even one of the traditional numbers of any band concert—a lively march. This was partially compensated for by their encore, Sousa's "King Cotton".

The featured number of the evening was the "March Baroque" by Andrew Kazdin, '56. The piece, not exactly a march as the name implies, is most interesting, and stood out more for its unusual rhythms than for its melodies. The work features some flashy timpani passages which Mr. Kazdin, the band's timpanist, performed quite well.

It is very obvious that the band has the "stuff". They must now work for perfection and musicianship by eliminating such vices as poor attacks, inability to hit high notes clearly, inability to play pianissimos as soft as they can play fortissimos loud, and a tendency to become "sloppy" in fast passages.

When this is accomplished, combined with their amazingly excellent tonal balance, the M.I.T. Concert Band will be one of the finest in the East.

Combined Concert

Mt. Holyoke College Orchestra
David Holden, conductor
and the

M.I.T. Symphony Orchestra
Klaus Liepmann, conductor

Sanders Theater March 14, 1954

Program

Symphony No. 53 in D major (The Imperial) Haydn

Five pieces for Strings Hindemith

Concerto in C major, Op. 15, for Piano and Orchestra Beethoven

soloist—Charles Rosen

Great Gate of Kiev Moussorgsky

Sunday night in Sanders Theater, the M.I.T. Symphony Orchestra combined with Mount Holyoke College Orchestra in a program featuring the Beethoven first piano concerto.

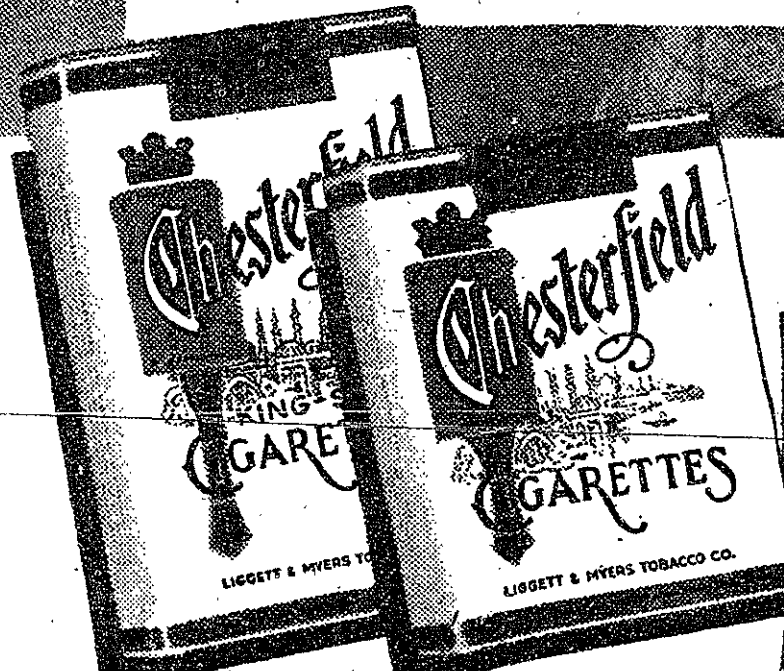
The two opening numbers were conducted by Mr. David Holden, the Holyoke director, and were done

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