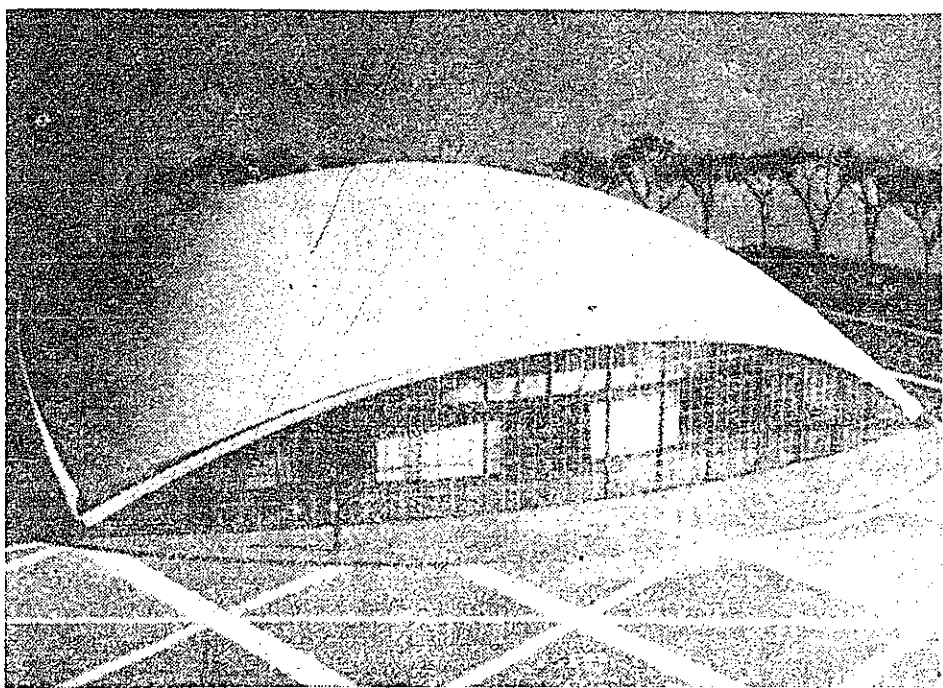


## Auditorium Plans Completed; Work To Begin Near May 1st



The above picture is an artists' conception of the auditorium to be erected on West Campus.

With the ground-breaking ceremony scheduled for some time near the first of May, plans for the Institute's new auditorium have been completed, and contractors are now studying the blueprints prior to making their bids.

The auditorium has been made possible through a grant from the Kresge Foundation of one and a half million dollars. The grant, made in July of 1950, was donated specifically for the building of an auditorium and chapel. Plans for the chapel are still in the discussion stage, and it will be built at a later date.

### Unusual Design Featured

The auditorium was designed by Eero Saarinen of Detroit, in association with Professors Anderson and Beckwith of the Institute's Department of Architecture. It will be in the shape of a spherical triangle whose surface area is one-eighth that of a sphere. The spherical surface will serve as roof and part of the walls of the building. It will rest on its three corners, which are raised from the ground slightly on heavy abutments. Between the corners will be segmental window walls.

Within the auditorium, there will be two levels. The upper level will be the main auditorium, seating 1200 persons. Acoustical requirements will be met with special "floating clouds"

—white baffles suspended from the ceiling. The lower level will be a small theatre seating 200 persons.

### New Presentations Possible

The new building fills a long-felt need here at the Institute. It provides a convenient meeting place in which an entire class can come together, for example. Important lectures, dramatic productions, and concerts by the music clubs will also make use of either the auditorium or the smaller theatre. The Annual Arthur D. Little Lecture will probably be given here, instead of in Huntington Hall as it now is.

In addition to providing a better setting for present Institute functions the auditorium will also make possible many presentations now impossible. Dr. James R. Killian, Jr., President of the Institute, sees the possibility, for example, of holding Chamber Music Concerts with orchestras brought in from outside the Institute.

The auditorium will be located behind the present site of Bexley Hall on Massachusetts ave., across from the main entrance to the Institute. A plaza will be built eventually between the auditorium and Massachusetts ave., on which will be located

(Continued on page 4)

## Speer Is New Dean; Fassett Leaves Because Of Illness

Because of illness, Associate Dean of Students Frederick G. Fassett, Jr., has been granted a temporary leave of absence from the Institute, it has been announced by the Dean's office.

During his absence, Dean Fassett's office will be taken by Acting Associate Dean of Students William Speer. Mr. Speer comes to the Institute from the Bureau of Study Counsel at Harvard University. Prior to his work at Harvard, Mr. Speer served as headmaster of the Loomis school in Connecticut, and as dean at Rutgers University.

Professor William N. Locke, of the Modern Languages Department, will replace Dean Fassett as Faculty Resident at Baker House.

## Book Composed On "Photon" Linotyper

The first book published using a new photo-electric composing system, was presented to the Hayden Memorial Library at a luncheon held here last Thursday.

At the luncheon Dr. Vannevar Bush, president of the Carnegie Institution of Washington, and a member of the foundation's board of directors, presented the new book called "The Wonderful World of Insects" to Dr. Karl T. Compton, president of the Institute corporation.

The new composing process was developed by the Graphic Arts Foundation, Inc. whose research director is Dr. Samuel H. Caldwell, Professor of Electrical Engineering at the Institute.

The foundation was established in 1949 as a non-profit organization to undertake the first cooperative research program of the printing industry to develop new and less costly production methods.

The photographic type composing machine developed by the foundation is called the "Photon." A standard typewriter keyboard activates the machine which produces photographed positives and negatives of complete

(Continued on Page 4)

## Inscomm To Hold Referendum Possible Office Separation

Inscomm, in its meeting of January 21, approved an all-school referendum to be held in March, and then went on to defeat, once and for all, the controversial motion on discrimination.

The referendum will be held concurrently with the general school elections, and will decide the question raised recently by the Student Government Investigating Committee. The S.G.I.C. had proposed that the offices of President of Inscomm and President of the Senior Class be made separate. Inscomm had previously defeated the motion, but a petition submitted by students has forced reconsideration of the matter. It is now felt that since the proposal would effect so many students, it should be, in all fairness, decided by the entire student body. Even if the student body does affirm the proposal, it will not go into effect until a year from this February. (Actual text of the proposal will be printed later in THE TECH).

## Struik Trial Nears Says County D. A.

The trial of Professor Dirk J. Struik will begin within three months, according to reports from the Middlesex County District Attorney's Office. He is accused of participating in a Communist movement to teach and advocate the overthrow of the state and national governments by force and violence.

Start of the trial has been delayed more than a year because a co-defendant, Mrs. Margaret Gilbert, has been fighting extradition from Illinois. (Mrs. Gilbert was arrested in Chicago as a fugitive from justice in October, 1951. She is free pending an appeal to the Illinois Supreme Court in the extradition action.)

Mrs. Gilbert and Professor Struik, along with Harry E. Winner of Malden, were indicted on September 12, 1951. Herbert A. Philbrick, former undercover agent for the F. B. I., told the grand jury at that time that the three were members of a secret Communist cell to which he had belonged.

## Dean Pitre Heads Student Aid Center

Establishment of a new Student Aid Center at the Institute was announced last night by Dr. James R. Killian, Jr. In making the announcement, Dr. Killian emphasized that the new office marks a significant step in the Institute's expanding program of student aid and student counseling.

"For the first time," he said, "all Institute resources devoted to scholarships, loans, and student employment will be concentrated in a single office. In this way we shall be able to manage our expanding scholarship and financial aid programs more effectively and to provide a more inclusive counseling service for students in need of financial assistance."

### Pitre Heads Program

Thomas P. Pitre, Dean of Freshmen, has been named Director of the new Center. Dean Pitre has been at M.I.T. since 1920, when he was appointed instructor in chemistry, and has been associated with the office of the Dean of Students in various capacities since 1930. He was named Dean of Freshmen in 1946 and since 1951 has served as Director of Student Aid and as Chairman of the Faculty Committee on Student Aid.

Dean Pitre will continue to assist in the work of the Office of the Dean of Students as Associate Dean to correlate the Institute's student aid program with other student personnel services.

### Counseling Services Given By Faculty Members

The new counseling service formerly rendered by Mr. Pitre as Dean of Freshmen will now be performed by the Institute's new Freshman Advisory Council. The Council, instituted by the M.I.T. faculty at the start of the current year, is composed of members of the faculty representing all departments at the Institute.

William A. Carlisle, Jr., will serve the new Center as manager of student personnel, a post which he has

(Continued on Page 3)

## Revision Of Guided Tours Is Planned For Institute

If you want your friends or relatives to visit the Institute and to leave without finding the place likable, then you had better keep them away from both the guest registry in Building 3 and the personnel office in Building 1. Why? Because the near future will find the Institute possessing sightseeing tours suited for individuals whether they are interested in the color of the carpets in the music library or the dimensions of the teeth on the electronic milling machine.

Professor Bunker, who is in charge of the guest registry, has enlisted the aid of Mr. Carlisle, Director of Personnel, in arranging tours that would be suited to small family groups, which would not ordinarily be interested in seeing the same things that professional scientists or engineers would care to see.

The routes would be divided according to the three general categories already mentioned, that is different tours for the layman, the scientist and the engineer.

The present system does not have the flexibility that the division of tours in the new system will have, but its appreciation is readily reflected in the number of letters and tele-

grams that the guest registry receives daily. Congratulations and thanks were still flowing into Professor Bunker's office last week from a group of 35 persons from Japan who toured the Institute last Dec. 5. With visitors from other far away places such as Iran, Indonesia, Egypt, and Burma, investment in a better guest reception system is certainly not out of the question.

## Deutsch Takes Year's Leave From Institute

Dr. Karl W. Deutsch, Professor of History and Political Science has been granted a year's leave of absence from the Institute, which began on Feb. 1st, to accept appointment as Research Associate with the rank of Visiting Professor at Princeton University.

At Princeton, Professor Deutsch will work at the University's Center for Research on World Political Institutions, where he has served as consultant since early 1952. His work at the Center will focus on a series of case studies in political integration, nationalism, and federal union.

## Richter Chosen Pi Tau Sigma Pres.

Eugene D. Richter, '53, was elected president of the M.I.T. chapter of Pi Tau Sigma, national honorary mechanical engineering fraternity, at the last meeting of the fraternity during the fall term. Elections are held every term; Richter will serve during the spring term of 1953.

Other officers elected include Frank D. Skinner, '53, vice president; Hisao Jimbo, '54, recording secretary; and John Stekly, '54, corresponding secretary. Richard T. Salter, '53, will continue on as treasurer.

## Combined Choral Groups Sing Fri.

Combined glee clubs of M.I.T. and Pembroke College will open the spring concert schedule of the M.I.T. Musical Clubs in Morse Hall this Friday evening at 8:30 p. m. The Logarithms, recent winners of a contest against other octets from the New England and New York area, will perform along with other soloists.

Tickets to this concert may be obtained for \$5.00 each at the booth in Building 10 throughout the week.

## Freshman Photos Now Distributed With Roll Cards

For the first time freshmen identification pictures will be turned in to each First Year Instructor at the first recitation. This is a test procedure approved by the Administrative Council and if it proves desirable will be extended to include all classes for all years.

Each First Year Student will receive 10 of his identification pictures in his Roll Card Jacket on Registration Day. One of these identification pictures should be submitted to the Instructor at the first recitation in each first year subject.

The purpose of distributing the identification pictures with roll cards is to help the Instructors become acquainted with their classes at a very early time.

## Two Students Dead In Highway Mishap

This midterm vacation for two M.I.T. students was brought to a sudden and tragic halt in Jesup, Georgia. Robert Solvak of Montevideo, Uruguay and Franco Piazza of Lima, Peru, were both killed instantly when the car in which they were travelling collided head on with a truck. Three other students in the car and the truck driver were injured seriously but are expected to recover.

The students were driving to Miami when the accident occurred. Driving at the time was Daniel Kokiell of Havana. The other students were Robert Au of Hawaii and John Byrnes of Evanston, Illinois.

# The Tech

VOL. LXXII

Tuesday, February 10, 1953

NO. 51

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 Assistant Night Editor: Edward H. Kaplan '56

## FEBRUARY 11 TO FEBRUARY 17, 1953

### WEDNESDAY, FEBRUARY 11

Freshman Wrestling Team. Match with Harvard University. Rockwell Cage, 4:00 p.m.

Electrical Engineering Department. Colloquium: "Pulse-ship, or How to Solve Pulse-Circuit Problems Without Actually Cheating." Professor Henry J. Zimmermann. Room 6-120, 4:30 p.m. Refreshments in Room 6-321 at 4:00 p.m.

Chemistry Department. Harvard-M.I.T. Physical Chemistry Colloquium: "The Structure of Catalytically Active Solids." Professor Pierce W. Selwood, Visiting Lecturer, Harvard University. Room 6-120, 8:00 p.m.

### THURSDAY, FEBRUARY 12

American Chemical Society, Northeastern Section. Symposium: "Recent Advances in the Chemistry of the Transitional Elements." Room 10-250, 4:00 p.m.

Physics Department. Colloquium: "The Magnetic Structure Studies by Neutron Diffraction." Dr. C. G. Shull, Oak Ridge National Laboratory, Oak Ridge, Tennessee. Room 6-120, 4:15 p.m.

American Chemical Society, Northeastern Section. Address: "The Physical Chemistry of Serum Lipid Transport and its Implications." Professor John W. Gofman, University of California. Room 10-250, 8:00 p.m.

### FRIDAY, FEBRUARY 13

Mechanical Engineering Department. Seminar: "The Design of Solar Houses." Mr. Austin Whillier. Room 3-270, 4:00 p.m. Coffee in Room 3-174 from 3:30-4:00 p.m.

### SATURDAY, FEBRUARY 14

Varsity Pistol Team. Match with U. S. Military Academy. M.I.T. Rifle Range, 2:00 p.m.

Varsity Wrestling Team. Match with Williams College. Rockwell Cage, 2:00 p.m.

Freshman Swimming Team. Meet with Moses Brown Academy. M.I.T. Alumni Pool, 3:00 p.m.

Informal Dance Committee. Dance. Morss Hall, Walker Memorial, 8:30 p.m.-12:00 midnight.

### SUNDAY, FEBRUARY 15

Society of Arts. Popular Science Lecture: "Billion Volt Accelerators." Dr. M. Stanley Livingston. Room 10-250, 4:00 p.m.

### MONDAY, FEBRUARY 16

Boston Society of Biologists. Symposium: "Is There a Scientific Approach to Human Behavior?" Dr. S. S. Stevens, Harvard University, Chairman. Lecture Hall B, Allston Burr Hall, Harvard University, 8:00 p.m.

### TUESDAY, FEBRUARY 17

Committee on Machine Methods of Computation. Seminar: "Operations Research." Professor Philip M. Morse. Room 4-231, 4:00 p.m.

Freshman Swimming Team. Meet with Gardner High School. M.I.T. Alumni Pool, 4:30 p.m.

Club Latino. Mexican Film: "Dios se lo Pague." Room 1-190, 5:00-7:00 p.m.

## EXHIBITIONS

"Art of Indonesia" will be shown in the New Gallery of the Charles Hayden Memorial Library, Mondays through Fridays, through February 16, from 9:00 a.m. to 5:00 p.m.

Photographic Salon prints by Jon W. Rasmussen of Seattle, Washington, will be on display in the Photographic Service Gallery, Basement of Building 11, through March 2.

## CALENDAR OF EVENTS

The Calendar of Events appears in The Tech on Tuesday with announcements for the following week. 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 February 18-24 is due February 12.

## through the mail

To the Editor of THE TECH:

It has been our experience during the past few years, that our student government, namely the Institute Committee, is not representative of the students at large. We feel the committee is both unwieldy and inefficient because of its size and organization. We feel that the following changes should be made in the organization of Institute Committee.

1. Activities, as such, should not be given a voting seat on the Institute Committee.
2. The chairman of the Institute Committee should be the president of the Undergraduate Association, a senior elected at large by all classes. (This would accomplish the separation of senior class president and Undergraduate Association president.)
3. The classes should be represented in their present form; that is, by a president and two Institute Committee representatives for each class. Notice that the senior class would have its president sitting on the committee.
4. The living groups should be represented in their present form; that is, one representative each from the Dormitory Committee, Interfraternity Conference, Women's Association, and 5:15 Club.
5. The sub-committees of the Institute Committee (Student-Faculty, Finance, Secretariat, Judicial, Public Relations, Freshman Coordinating) should be formed into a cabinet of the Institute Committee without voting membership. The chairman of the cabinet should be the chairman of Institute Committee.

These changes would reduce the

## Contributions Needed for Holland Flood Relief; Fund Drive on Now

Laurens Troost, Head of the Department of Naval Architecture and Marine Engineering has been asked by the Netherlands Flood Relief Committee of Boston to appeal to the

total size of the Institute Committee to seventeen, including the chairman—a workable group.

We have worked with the Institute Committee in its present form since our freshman year, and therefore have seen, at close range, the crying need for reorganization. In the past three years, the amount of legislation involving the activities directly, has been so small that there seems to be no need for activities, as such, to hold voting seats on the Institute Committee. Most of the legislation pertains to students as a whole, either through their living groups or classes: therefore we feel that the people voting on such matters should be directly responsible to the students and not to individual activities.

We are submitting a petition to the students for their consideration on these proposals. If sufficient signatures from all classes are obtained on our petitions, the question will be brought up automatically before Institute Committee. If defeated then, it is the intention of the authors to carry the question to a general referendum vote of all students.

David L. Vogel, '54 Sophomore Pres.  
 Albert A. Ward, Jr., '54 Junior Pres.  
 Dean L. Jacoby, '54  
 February 7, 1953

All letters to the Editor must contain the name of the author which will be withheld upon request.

members of the Institute staff and the student body to contribute funds for flood relief in the Netherlands. In a statement to THE TECH, Professor Troost said: "In the five days following the first floods, the population of the Netherlands contributed more than two million guilders and many thousands of articles of clothing for their stricken countrymen . . . However, there is still great need, and contributions are absolutely necessary from people outside The Netherlands, especially in America. Everything will be greatly appreciated." Checks made out to "For Netherlands Flood Relief," may be sent to Mr. Allen Forbes, State Street Trust Company, State Street, Boston.

Plans have been made to form a Netherlands Flood Relief Committee, Boston, which will coordinate the efforts of the many groups presently working on this problem. Mayor Hynes of Boston will serve as honorary chairman of the committee, and Mr. Francis Ahearn, president of the Boston City Council will be chairman. Mr. Forbes has been designated treasurer.

All funds that are collected in this country will be forwarded to the American Ambassador to The Netherlands, who, as the leading emissary to Holland, will distribute the money wherever he may find the need.

## ALL TECH SING

The Annual All Tech Sing will be held March 14. Anyone who wishes to enter a singing group be sure to contact Phil Untersee, LO 6-3982, by next Tuesday, February 17.

## Hughes cooperative plan for

# MASTER OF SCIENCE DEGREES

**Purpose** TO ASSIST outstanding graduates in obtaining their Master of Science Degrees while employed in industry and making significant contributions to important military work.

**Eligibility** June 1953 college graduates and members of the armed services being honorably discharged prior to September, 1953, holding degrees in the following fields:

ELECTRICAL ENGINEERING  
 PHYSICS  
 MECHANICAL ENGINEERING

Those chosen to participate in this plan will be from the upper portion of their graduating classes and will have evidenced outstanding ability. They must also have displayed some degree of creative ability and possess personality traits enabling them to work well with others.

**Citizenship** Applicants must be United States citizens, and awards will be contingent upon obtaining appropriate security clearance, as work at the Hughes Research and Development Laboratories may be related to National Defense projects.

**Universities** Candidates for Master of Science Degrees must meet the entrance requirements for advanced study at the University of California at Los Angeles or the University of Southern California.

**Program** Under this Cooperative Plan, commencing June 1953, participants will follow this schedule of employment at Hughes:  
 FULL TIME—from June, 1953 to Sept., 1953.  
 HALF TIME—from Sept., 1953 to June, 1954.  
 FULL TIME—from June, 1954 to Sept., 1954.  
 HALF TIME—from Sept., 1954 to June, 1955.  
 Recipients will earn five-eighths of a normal salary each year and attend a

university half time during regular sessions working on their Master's Degree.

The salary will be commensurate with the individual's ability and experience, and will reflect the average in the electronics industry. Salary growth will be on the same basis as for full-time members of the engineering staff. In addition, the individuals will be eligible for health, accident, and life insurance benefits, as well as other benefits accruing to full-time members.

For those residing outside of the Southern California area, actual travel and moving expenses will be allowed up to ten per cent of the full starting annual salary.

Tuition, admission fee, and required books at either the University of California at Los Angeles or the University of Southern California, covering the required number of units necessary to obtain a Master's Degree, will be provided by Hughes Research and Development Laboratories.

Approximately one hundred Cooperative Awards are made each year, if sufficient qualified candidates present themselves.

Candidates will be selected by the Committee for Graduate Study of the Hughes Research and Development Laboratories.

Application forms should be obtained prior to February 15, 1953. Completed applications accompanied by up-to-date grade transcripts must be returned not later than February 28, 1953. Selections will be made during the month of March.

Address correspondence to  
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# 'Atom Smashers' Topic Of Lecture By Dr. Livingston

Billion volt atom smashers will be the subject of a popular public talk to be given here by one of the world's foremost nuclear physicists, Dr. M. Stanley Livingston, Associate Professor of Physics at 4:00 p. m. on Sunday, February 15. He will discuss a new focussing principle in the design of particle accelerators. This new principle makes it possible to plan accelerators of much higher energies than the famed cosmotron at Brookhaven National Laboratory.

Such billion volt atom smashers will permit scientists to produce and study the properties of higher-energy mesons, the shortlived particles observed in cosmic rays. Mesons, scientists say, appear to represent in the form of mass the energy which holds atomic nuclei together. It is this energy which is released in tremendous amounts in fission and thermonuclear reactions.

Professor Livingston was associated with Noble-Prizewinner Ernest O. Lawrence as student and collaborator in the development of the first cyclotron. He was also Chairman of the Accelerator Department at Brookhaven during the design of the cosmotron, which was recently completed and operated at a new world's energy of 2.3 billion volts.

Dr. Livingston's lecture is the third in a winter series of popular science lectures being given under the auspices of the Society of Arts at the Institute. Tickets may be obtained without charge by enclosing a stamped, addressed envelope for each separate request to the Society of Arts, Room 4-415.

## TREMORS

by Sarno

With the new term ahead, it is time to shoo the waxy polmess from our desks (or did you use an oil lamp during the finals) and face the new term with cliff-like jaws outstretched to meet the new etc.

If you're weather beaten and brain weakened as I, then you too can muddle over a fanciful list of resolutions that every good Techman should follow.

- 1) sleep snorelessly during all lectures to avoid perturbing the lecturer.
- 2) Working from predetermined results, derive satisfactory data for all lab experiments to satisfy the instructor that it will work.
- 3) Real all bulletin boards twice a month to prove to yourself you can read something besides an equation.
- 4) Take notes on all pretty secretaries for distribution before chem lectures to provide the student with something to do.
- 5) This is most important. Keep ears clean and eyes peeled for signs which will announce the annual smoker for The Tech for the second term.

### Student Aid

(Continued from Page 1)  
held since 1951. Associated with the Institute since 1929, Mr. Carlisle will have charge of developing and directing employment opportunities on student staffs in the Institute's dormitories, dining rooms, and other facilities. He will have the additional responsibility of correlating these employment opportunities with those available in various laboratories and research projects under the Institute's academic departments.

President Killian also announced that Richard W. Willard has been named Assistant to the Director of the Student Aid Center. Mr. Willard, a graduate of M.I.T. in the class of 1951, has been serving as Assistant to the Director of Admissions.

## The College Press

While looking through college newspapers, one often comes across articles which have cryptic or ambiguous meanings and which allow the mind to wander. The following are a few examples which elicit no comment from this department but many murky thoughts. Remember he who laughs last has found a double meaning.

Notice on the bulletin board at Tufts College: Lost: One plaid skirt last week in the library. Ad in the Daily Texan: Lost Saturday night—pair of lightweight trousers.

News article in the Technology News (Illinois Institute of Technology): Chi Sigma, the female service fraternity, is looking for some service to perform. If any group has suggestions for projects . . . they should contact one of its officers.

Ad in the Columbia Spectator: Male subjects wanted . . . for psychology experiments. Two dollars paid for one session lasting one and one-half hours. Come in person. "DO NOT PHONE."

From the Wellesley College News: Look before you sweep under your bed.

In a discussion concerning the possibility of introducing coeducation to Wesleyan College the following arguments were advanced in favor of the move. "At the present time the world has two sexes while the world we live in has only one." Another advantage was that women on the campus would save undergraduates considerable time and money.

The Air Force ROTC Department at George Washington University (St. Louis) recently bore down on its students on the matter of personal appearance. The stand taken by that unit was to establish a general rule that there be a maximum interval of

(Continued on Page 4)

## Schedule WGBH

TUESDAY, FEBRUARY 10, p.m.

- 3.30—News, Weather, Highlights.
- 3.35—Economic and Political Ideas in Modern Times. Dr. Overton H. Taylor, Harvard University. (Commission on Extension Courses.)
- 4.30—Two Hundred Years of the Concerto. Professor Francis Findlay, Boston University. Program: Dvorak, 'Cello Concerto and Piano Concerto.
- 5.30—Children's Circle. Nancy Harper, Nursery Training School of Boston, Tufts College.
- 6.00—News, Louis M. Lyons, Harvard University. U. S. Weather Bureau Report and Forecast. Music, Mozart, Sonata in D for Two Pianos, K. 448.
- 7.00—Roundup of the London Weeklies. (BBC.)
- 7.15—This Week at the Museum of Fine Arts, Korean Silver, Alice Maginnis.
- 7.30—American Drama Since 1918, Dr. William B. Van Lennep, Harvard University. (Commission on Extension Courses.)
- 8.30—Catholic University String Quartet. Emerson Meyers, piano. Program: Beethoven, String Quartet, Opus 18, No. 4; Piano Trio, Opus 70, No. 1; String Quartet, Opus 18, No. 6. (Continental FM Network.)
- 10.15—News, Louis M. Lyons (rebroadcast). Weather, Highlights.

WEDNESDAY, FEBRUARY 11, p.m.

- 3.30—News, Weather, Highlights.
- 3.35—Ideas of Good and Evil in Western Literature. Professor Howard E. Hugo, Harvard University. (Commission on Extension Courses.)

- 4.30—Music of the Ballet. The Productions of Diaghilev: Joseph, Baird Hastings.
- 5.30—Children's Circle. Nancy Harper, Nursery Training School of Boston, Tufts College.
- 6.00—News, Louis M. Lyons, Harvard University. Backgrounds. U. S. Weather Bureau Report and Forecast. Music, Stravinsky, Concerto for Two Solo Pianos.
- 7.00—Ways of Mankind. All the World's a Stage. An anthropological and sociological study of status and role, supervised by Professor Walter Goldschmidt, University of California. Produced under a grant from the Fund for Adult Education, established by the Ford Foundation. (CNAEB Tape Network.)
- 7.30—Psychology of Learning. Dr. Edwin B. Newman, Harvard University. (Commission on Extension Courses.)
- 8.30—National Symphony Orchestra, Howard Mitchell, conductor. Program: Hindemith, Symphony in E flat; Kurt G. Rogers, Concerto Grosso for Trumpet and Strings (Lloyd Geisler, solo); Tchaikovsky, Symphony No. 6. (Continental FM Network.)
- 10.30—News, Louis M. Lyons (rebroadcast). Weather, Highlights.

### HARVARD SYMPOSIUM

"Is There A Scientific Approach To Human Behavior?" will be the topic of a symposium to be held at 8 p. m., in Lecture Hall B, Allston Burr Hall, at Harvard University.

## L S C presents

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- "A delightfully amusing satire!"—Daily News

5.00, 7.30, 9.30 P.M.

Room 1-190 Thursday, February 12, 1953 \$30

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If you, as a graduate engineer, are interested in learning more about the career opportunities at Link, you may secure a booklet entitled "A Link in your Future" by writing to:

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FEBRUARY 25

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Interviews  
February 17

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## Amherst Overcome Bus Service To Ski 5-4 By Squashmen; Areas In Vermont Play Princeton Next Set For Weekends

In a very evenly matched contest here at Tech last Saturday, the Beaver squashmen defeated Amherst by a score of 5 to 4. The win was largely due to Paul Rudzinski's hard fought win in the last match of the day, with the score at that point tied at 4-4. The other four wins racked up for the Techmen were also well deserved. All four men played excellent squash when they became hard pressed. The other four Tech winners were Malani, Maxon, Harriman and Goldin.

This victory went a long way towards bolstering the team's spirit. To date the season's record stands at two wins and three losses. This is relatively poor since this is the first year since the Fordham match in 1950 that the Tech squashmen have lost a match. The next squash match will be at Princeton on February 13.

The winners of the individual matches were:

1. Rudzinski (M.I.T.), 3-2.
2. Malani (M.I.T.), 3-1.
3. Maxon (M.I.T.), 3-2.
4. Harriman (M.I.T.), 3-0.
5. Banks (Amherst), 3-2.
6. Goldin (M.I.T.), 3-1.
7. Hart (Amherst), 3-2.
8. MacDougall (Amherst), 3-1.
9. Wheeler (Amherst), 3-1.

## Ski Tryout At Stowe

MT. MANSFIELD, Stowe, Vt.—The North American Ski Championships to be held here Mar. 7 and 8 will also be an FIS tryout that will lead to the final selection of the United States team that competes in the world ski championships in Sweden next February.

The downhill event, on the first day, will be run on the famous Nose Dive racing trail that will exact, from the winner, true championship caliber and a quality of skiing seldom seen. It drops 2500 feet in its mile and three-quarter length.

The new National trail will be the site of the slalom on the second day. Its length and steepness will provide a test of endurance and technique from the world's best slalom competitors.

## Auditorium

(Continued from Page 1)

the chapel, and possibly a student union. It is hoped that the plaza and its surrounding buildings, will in the future, be the center of student life at the Institute.

## Weekend express bus service direct from Boston to major New Hampshire and Vermont ski areas with departures late Friday afternoon and return trips Sunday evening is being inaugurated this week by Vermont Transit Lines. The service will continue every weekend throughout the ski season.

One express ski bus will leave the Boston Greyhound Terminal every Friday at 4:00 p.m. and will operate via Manchester, Concord, White River Junction and Montpelier to Burlington. This coach will serve the Dartmouth and Woodstock ski areas via White River Junction, the Mad River Glen ski area via Middlesex, Vt., and the Stowe-Mansfield area via Waterbury, Vt. Immediate connecting service will be available from Waterbury to Stowe. Return service will be provided on Sunday evenings with arrival in Boston at 11:45 p.m.

On the second route, a bus will leave the Boston Greyhound Terminal every Friday at 6 p.m. for Jaffrey, Peterborough, Keene, Rutland and Burlington. This bus will serve ski areas in the Monadnock Region and will also serve the Pico Peak area via Rutland and the Breadloaf area via Middlebury. Sunday evening return service will be provided on this route with arrivals in Boston at 8:20 p.m. and 11:55 p.m.

Busses on both routes will stop to pick up passengers at the Bence Pharmacy in Cambridge and at the Cole Pharmacy in Arlington. While designed primarily for the convenience of skiers, the service will be available to non-skiers as well and will operate every weekend regardless of skiing conditions.

Busses on both routes will stop to pick up passengers at the Bence Pharmacy in Cambridge and at the Cole Pharmacy in Arlington. While designed primarily for the convenience of skiers, the service will be available to non-skiers as well and will operate every weekend regardless of skiing conditions.

## New Book

(Continued from Page 1)

lines. The machine automatically adjusts the type to a predetermined line length by providing a proper spacing between letters and words.

The mechanism involves the principles of high speed photography, together with photo-electric cells similar to those that open doors automatically and dial telephone selectivity circuits. The "Photon" photographs print fonts of type from ink sketches to any size desired. The film is then transferred to engraving plates for printing.

## Beaver Freshmen Freeze Huntington; Cage Record Goes

On Saturday, January 17 the freshmen easily defeated the Huntington Prep team in their first meet of the season. Despite the cold weather which hampered the running the frosh showed great promise for the coming year. Facing a small Huntington team the frosh failed to take a first only in the High Hurdles in which Terry of Huntington won in 6.3. A frosh cage record fell when John Morefield threw the shot put 50 ft. 3 and a half inches. Jim Nozzicata tied the freshman cage record in the broad jump with a jump of 20 feet 6 inches. Nozzicata also placed second in the fifty yard dash.

Gearhardt, Fitzgibbon, Korn, Hoffman, and Blodgett also scored impressive wins in this meet. The final score was M.I.T. 69, Huntington 12.

The summary:

50 yard dash—1, Hoffmen (MIT); 2, Nozzicata (MIT); 3, Terry (H). Time—5.8 seconds.

High hurdles—1, Terry (H); 2, Blodgett (MIT); 3, Liedreman (H). Time—6.3 seconds.

One mile run—1, Gearhardt (MIT); 2, Heath (MIT); 3, Bzattin (MIT). Time—5:04.2.

600 yard run—Fitzgibbon (MIT); 2, Byan (H); 3, McGungle (MIT). Time 1:25.1.

1000 yard run—1, Korn (MIT); 2, Kuckes (MIT); 3, Buell (MIT). Time—2:33.4.

300 yard run—1, Hoffman (MIT); 2, MacDonald (MIT); 3, Dempsey (H). Time—34.6.

12 lb. shot put—1, Morefield (MIT); 2, Brinker (MIT); 3, Porter (MIT). Distance—50 feet 3.5 inches.

High jump—1, Blodgett (MIT); 2, Solow (MIT); 3, Gruzen (MIT). Height—5 feet 6 inches.

Broad jump—1, Nozzicata (MIT); 2, Solow (MIT); 3, Burrowes (MIT). Distance—20 feet 6 inches.

## LESSELLS

Professor John M. Lessells, Department of Mechanical Engineering, was elected an Honorary Member of the American Society of Mechanical Engineers at the Annual Meeting, held in New York, in December.

This recognition is for Professor Lessells' work in assisting to create the Applied Mechanics Division of the Society and for his editorship of the Journal of Applied Mechanics.

# Beaver Barks . . . Football ???

The most startling news to hit the collegiate athletic world since the discovery of Gussie Moran's lace pants is the announcement of the ending of the two platoon system for college football. Little does the average Techman realize what wonderful opportunities this holds for the future of organized athletics at the Institute. No longer is M.I.T. at a disadvantage before schools which have the capacity to field two complete teams. Here is the opportunity for greater participation in intercollegiate sports and in-

cidental, a good chance for the Beavers to field a football team of their own.

The athletic material is here as witnessed in the annual Soph-Frosh football rivalry during field day. If half the school can put up two squads of good ability, imagine what the entire school could do given the chance.

One might argue that M.I.T. is not the school for football as we are primarily an institution of higher learning not a playboy resort. Yet, other fine engineering schools, notably Rensselaer Polytech and Stevens Institute have found the time, talent and spirit to play. It is this observers opinion that an honest-to-goodness amateur football squad (not the high-powered professional machines found at many schools) would contribute no small part in a general uplifting of school morale and spirit besides allowing the Institute to enlarge its present position in the collegiate picture.

Provided that the student body shows sufficient interest in the project, and this observer feels that it is forthcoming, there are no unsurmountable difficulties involved. If any of you have any thoughts, pro or con, on the matter let's hear from you.

## College Press

(Continued from Page 3)

ten days between hair cuts.

We are informed by the Dartmouth Outing Club that the size of the 1953 Winter Carnival (held last weekend), was limited. This decision was reached because the great influx of visitors at the 1952 Winter Carnival resulted in serious overcrowding. Measures were therefore drafted by students and college authorities alike who had established the policy that an invitation be requested for the weekend.

Many M.I.T. students have an understandable pride in the Institute and are often plagued by outsiders seeking information on various aspects of our Alma Mammy. Here are several most oft repeated questions and suggestions for their answers.

Q. How easy is it to make grades here?

A. Nothing to it. Almost everyone who attends makes a grade of some kind or another.

Q. How does one spend his spare time?

A. Studying.

Q. Is it true that women come here to get married?

A. No. Many of them just want to get engaged.

## CLUB LATINO SHOW

The newly formed "Club Latino" (Latin American Club) of M.I.T. is sponsoring a movie in Spanish with English subtitles to be shown next week. "Dios se lo Pague" is an Argentinian film with Arturo de Cordova starring as a beggar by night and a great gentleman by day.

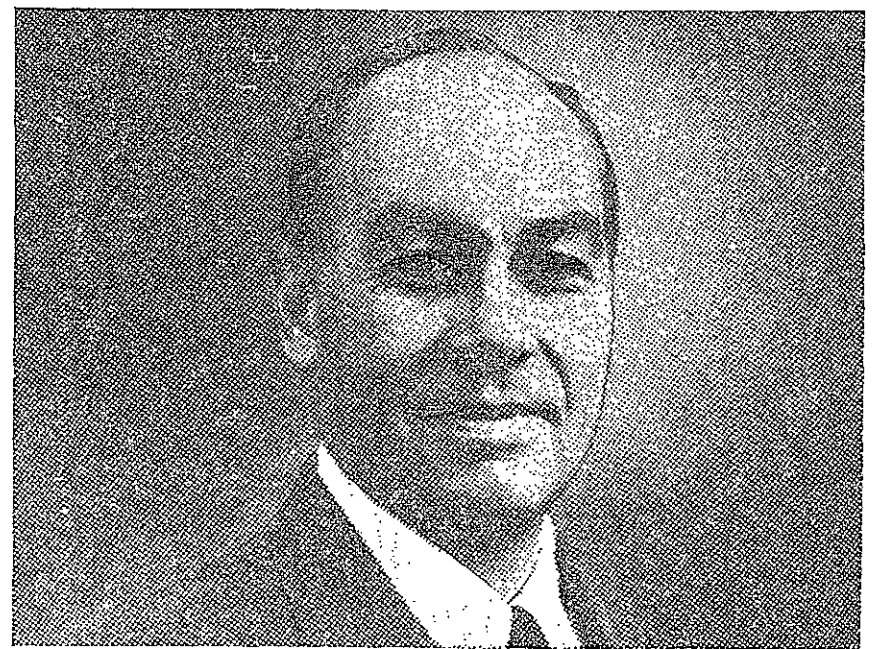
It will be shown on Tuesday, February 17, 5-7 p.m. and on Wednesday, February 18 from 7 to 9 p.m. in Room 1-190.

## "Represents education that continues,"

says GEORGE GALLUP

Founder of the American Institute of Public Opinion; formerly Professor, Pulitzer School of Journalism, Columbia U.

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The Reader's Digest offers a continuing liberal education for millions of men and women with alert, open minds.

In February Reader's Digest, you'll be interested in *Silicones—Magic Sand*—story of the new chemical family that may prove one of science's most useful gifts; *Our Children's Debt to John Dewey*—portrait of our "most complete expression of American genius," whose own children inspired progressive education; *20-page book condensation: Back Down the Ridge*—William L. White's war classic on how new medical methods are saving our wounded in Korea.

# AN OPPORTUNITY FOR GRADUATE ENGINEERS WITH GOODYEAR

Representatives of the Goodyear Tire & Rubber Company and the Goodyear Atomic Energy Corporation will be on your campus to interview Seniors with B.S. and advanced degrees in the following fields of technical study:

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Opportunities for graduates with the above degrees now exist in the following fields:

- ⊗ PLANT ENGINEERING
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# Contest For Scholarships In Industrial Management Begins

The School of Industrial Management has opened its competition for the fellowships which will be available for graduate students in the School in 1953-54.

Recent college graduates whose major studies have been in science, engineering or engineering administration and who want advanced work in industrial management are invited to apply, according to Dean E. P. Brooks of the School. Fellowships will include full tuition and may carry additional cash stipends of up to \$2100 for married men and \$1400 for single men.

### Program Sponsored by Sloan Grant

The program of fellowships in this field is made possible by the foundation of the School of Industrial Management, established under a grant made in 1951 by the Alfred P. Sloan Foundation, Inc. The School, housed in its own building at 50 Memorial Dr., Cambridge, now sponsors undergraduate and graduate studies in industrial management and the Executive Development Program for those already holding responsible positions in industry.

The graduate program in M.I.T.'s new School of Industrial Management, leading to the degree of Master of Science in Industrial Management, normally requires two years for those who have had no previous work in this field, according to Dean Brooks.

### Program On a Two-Year Basis

The first year of the two-year program is devoted to basic subject matter in four areas: (1) the history and

the economic and legal foundations of business activity; (2) the inter-relationships of individuals and groups in industry; (3) the production, distribution, and financial structure of the economy; and (4) the operational tools of management.

The second year curriculum is in large part worked out individually by consultation between the student and members of the faculty. A typical program will include advanced work in production management, marketing management, financial management, and industrial relations; a seminar in administrative policy conducted largely by top administrators from business and government who come to the School as visiting teachers; and a seminar in public economic policy devoted to consideration of selected economic problems of major concern to industry. Approximately one quarter of the student's time in the second year is devoted to individual study of a management problem of his own choice, culminating in a Master's thesis.

### Development of Responsibility Is Sought

"The objective of the School," said Dean Brooks in announcing the fel-

(Continued on Page 6)

## Compton Describes New Biology Grant

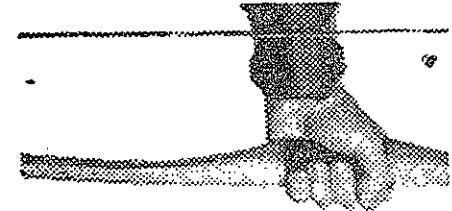
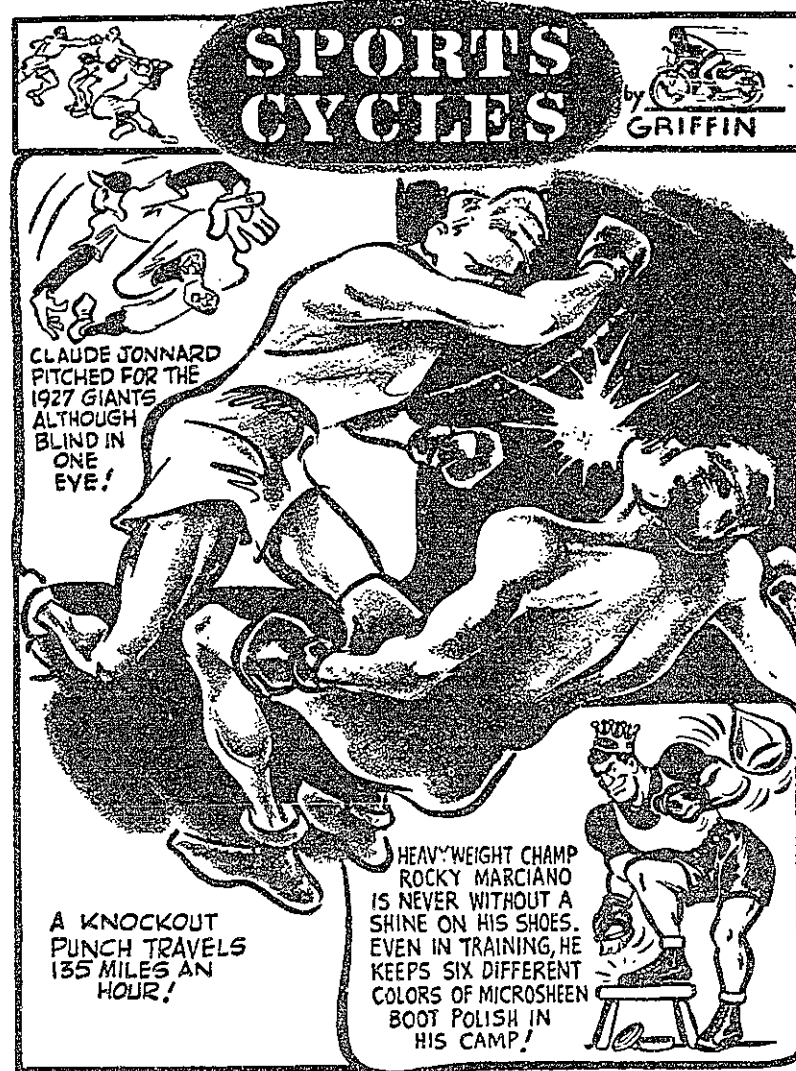
A grant of \$500,000 from the Rockefeller Foundation in support of the Institute's program in biology was announced on Feb. 5 by Dr. Karl T. Compton, Chairman of the Corporation.

Dr. Compton, who made the announcement before nearly a thousand alumni at the Mid-Winter meeting of the Alumni Association in Walker Memorial, also reported that the Institute had received gifts amounting to \$3,042,000 during the first six months of the current fiscal year.

### Faculty Also In The Spotlight

Edwin D. Ryer, President of the Alumni Association, welcomed Greater Boston alumni; and Dr. George R. Harrison, Dean of Science, presided. In addition to Dr. Compton's address, Dr. Harold E. Edgerton presented a lecture-demonstration of the latest advances in high-speed photography. Professor Edward R. Schwarz, head of the Institute's textile laboratories, reported on the latest developments in the field of textiles. He emphasized the striking advances in various types of fabrics made from synthetic yarns.

The Rockefeller grant brings to over a million dollars the contributions of the Rockefeller Foundation in support of biology at Technology.



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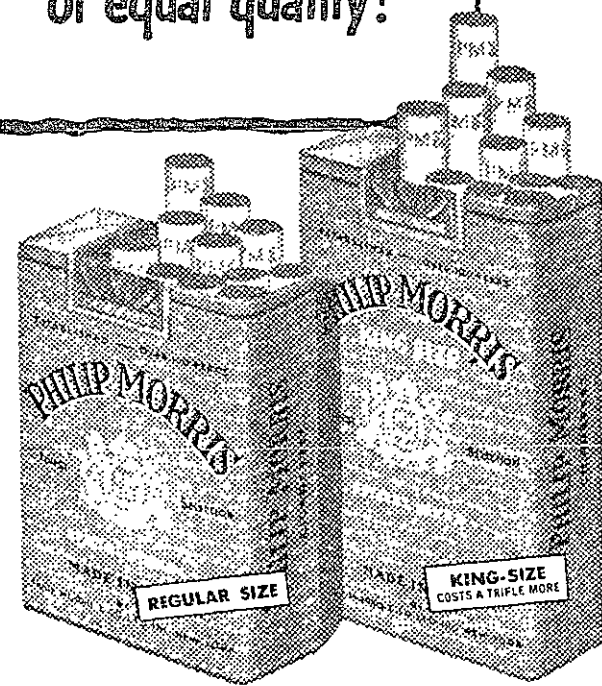
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### \$500 Prize For Birth Control Essay

For essays submitted during the next month the Planned Parenthood League of Massachusetts is offering prizes up to \$500. All papers must bear the title "Birth Control — a Democratic Responsibility." Essays with views unsympathetic to those of the League will receive equal opportunities to win an award if their quality merits one, promises the organization.

The assigned title covers such a broad field that students may wish to limit their papers to some specific area related to their major interest, such as: civil rights, separation of church and state, special economic factors, juvenile delinquency, divorce or marital discord, morality or religion.

Rules of the contest demand that one give his name, name of college, home, and college addresses on a slip of paper separate from his essay. No paper can exceed 3,000 words.

Address all correspondence to Planned Parenthood League of Massachusetts, 229 Berkeley Street, Boston 16, Mass.

### British Universities Will Offer Courses

This summer, the Associated British Universities will be offering a number of courses in the humanities and social sciences. Satisfactory work in one of these courses will obtain for the student one semester credit at the Institute. The following subjects will be offered. The University of London will offer a study of Britain's economy in the Atlantic community, the University of Oxford will offer a course in Literature and Politics of the Twentieth Century, and the University of Birmingham will offer a course in Shakespearean Drama. Work in these courses will be done through lectures, discussion groups, and field trips.

Anyone interested should consult with Mr. A. Dudley, in room 3-108.

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### Scholarships

(Continued from Page 5)

lowship competition, "is to develop in its students a sense of social and economic responsibility and a broad executive ability comprising the powers of working with people, of communicating ideas, of leading others, and of planning and controlling operations.

"The educational philosophy of the School is based upon our conviction that education for management combined with training in the natural sciences and their applications is an excellent foundation for future leadership in an increasingly complex and technical society."

Potential Leaders Will Be Selected  
Fellowship recipients, selected by the Graduate Committee of the School of Industrial Management, will be those applicants who appear to have the greatest potentialities for future leadership in business. This decision, according to Dean Brooks, will be

based upon such factors as outstanding scholastic performance, demonstrated initiative and leadership ability, evidence of high moral and ethical standards, favorable personality traits, and—within certain limits—successful working experience.

Most applicants will presumably be students graduating in June 1953 from colleges accredited in science or engineering, or recent graduates from

### D. C. DANCE

The first I.D.C. dance of the term will be held this Saturday in Morse Hall at 8:30 p.m. Refreshments and entertainment are included in the admission price of 1.00 per couple.

such schools with one or two years' professional experience.

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### THE SHAME OF OUR COLLEGES

Are we a nation of uneducated people with college degrees? Do less than half of our students in college actually belong there? Why is today's campus the target of Communist propaganda—a hotbed of sports scandal—a marriage mart for enterprising females? Don't miss Louis Bromfield's shocking expose, "The Shame of Our Colleges."

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