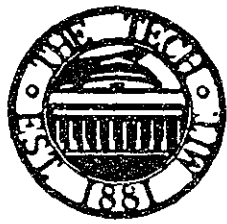


# The Tech



OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. XXV. NO. 46

CAMBRIDGE, MASSACHUSETTS, TUESDAY, DECEMBER 6, 1955

5 CENTS

## New Dean Suggested

## Activities Hold Endicott Conference

Future areas of development in the activities and methods of increasing the value of Activities Council to the individual activities were the major topics of the first Activities Council conference. The gathering was held this past week-end at the Endicott House in Dedham, Massachusetts.

Approximately thirty students, faculty, and members of the faculty, including Alumni President Dwight Arnold, heard E. Francis Bowditch, Dean of Students, keynote the conference by describing the historical development of student activities at the Institute, and suggesting several areas for development in the near future. Dean Bowditch mentioned the possibility of the appointment of an Associate Dean of Students for Activities, of an Activities Administrative Board composed of interested faculty and alumni, and of an increased program of faculty advisors and advisory boards.

### Favor Activities Dean

The conference members discussed the suggestions of Dean Bowditch to great length at both Saturday afternoon and Sunday afternoon sessions. Although there was much opposition to an Administrative or Advisory Board, on the grounds that it might tend to become a supervisory board, the students generally agreed on the need for a man in the Dean's office to act as counsellor and advisor. The existence of faculty advisors and boards was considered dependent on the needs and desires of the individ-

ual activities.

The Saturday evening discussions were started with a short talk by John S. Saloma III '56, President of the undergraduate Association, on the problems of financing and financial control in the activities. The conference then split into two panels to consider these questions. Perhaps the most important conclusions to come out of the part of the conference were that InsComm was justified in claiming financial responsibility and requesting reports from the activities, but that the student activities would sacrifice much of their strength by permitting alumni or faculty control of funds.

The group discussions held on Sunday morning were directed toward some of the more immediate problems of the Activities Council. In a group considering the development of activity facilities, the participants felt that the Council was justified in requesting more authority in policy problems pertaining to Walker Memorial.

A second group, agreed that the Class B activities were woefully underrepresented, and suggested that they be classified in groups to increase their representation to about four or five. In addition, a suggestion was made that the Council aid activities faced with major financial or manpower problems.

The major purpose of the conference was to stimulate discussion and open new areas for Council action.

## Killian Heads Planning Committee For Annual Atoms For Peace Award; Presentation To Be Made At Institute

President James R. Killian, speaking at the Tau Beta Pi banquet last Saturday night, announced to the Institute community the establishment of an Atoms for Peace Prize. It was first announced at the Geneva Atoms for Peace Conference by Admiral Lewis B. Strauss. The \$75,000 prize, largest of its kind, was financed by a one million dollar bequest made by Mr. Henry Ford to implement President Eisenhower's Atoms for Peace campaign. It will go to the person who each year, has done the most to promote or to further progress the peaceful use of the atom.

Presentation ceremonies will be held each year in Kresge Auditorium on the anniversary of the first sustained chain reaction. The first presentation is tentatively planned for December, 1956.

Dr. Killian was named chairman of the Planning and Organizational Committee. Other members of that committee are Dr. Ralph Bunche, of the United Nations; Dr. M. McAfee Horton, former President of Wellesley College; Mr. Marvin Kelley, President of Bell Laboratories, Dr. Arthur Compton of Washington University and Dr. Allan Waterman.

Assigned to this committee was the job of determining the method in which the prize is given and administered. Its final report will be released in the very near future.

Other guests at the dinner were: Mr. Harold M. King, National President of Tau Beta Pi; Mr. Robert Schnagel, National Secretary-Treasurer, Dr. Muckenhop and Dr. Herbert K. Brown, National Councilors; Professors den Hartog and Michaels, faculty advisors of the MIT chapter and Professor John Arnold of the Mechanical Engineering Department who served as toastmaster.

Initiated into the honorary society were five honor juniors, fifty-three seniors, and eleven graduate students, including five each from VI-A and XIII-A.

The initiates: John Andrew Welsh G, Alberto Jimenez G, Robert Lee Krag G, John Elmer Rasmussen G, William Norris Smoot G, Thomas Joseph Walters G, Frederic Richard Morgenthaler G, Martin Lawrence Shooman G, Cleo Milford Stearns G, Eric Douglas Thompson G, Edwin Herbert Baker '56, Robert Charles Baker '56, William Elton Barrett '56, (Continued on page 4)

## Stever, Chief AF Scientist, Named Associate Dean Of Engineering

Dr. Guyford Stever, Chief Scientist of the Air Force, has been appointed Associate Dean of the School of Engineering at Massachusetts Institute of Technology, President James R. Killian, Jr., announced today. He has also been promoted from Associate Professor to Professor of Aeronautical Engineering.

Dr. Stever has been on leave from MIT since last February, when he went to Washington for one year as Chief Scientist, in which capacity he serves as advisor to the Chief of Staff and the secretaries of the Air Force. His leave has been extended and he will return to MIT in June.

"In his new capacity, Dr. Stever will participate with Dean C. Richard Soderberg in the leadership of the School of Engineering and he will also continue as a professor, part time in the Department of Aeronautical Engineering," Dr. Killian said. "He has made numerous and important contributions to the field of aeronautics, both in relation to supersonic aerodynamics and electronic guidance problems.

"He has played a leading role in several of the research programs at MIT and has also taken an active role in teaching and student guidance. He has rendered valuable service to the United States Air Force on seven advisory groups, culminating in his distinguished service as Chief Scientist."

Born in Corning, New York, in

## Judcomm Denies Aronson's Appeal

Last Thursday night the Inscomm Judicial Committee reviewed the case of Arthur Aronson '57, who had been expelled from the dormitory system by the Dormitory Judicial Committee for "possession and use of explosives" in Baker House a few weeks ago. Aronson was represented by two witnesses, and the prosecution was handled by members of Baker House Committee and Dormitory Judicial Committee.

Aronson was found guilty, and his expulsion from the dorms was upheld. His penalty was determined after considering his previous record, which "had failed to meet minimum standards of conduct", according to Fred Culick '56, Judcomm chairman. Aronson still has an appeal to the Deans' Office pending.

Peter Schwarzkopf '57, who was put on Deans' Office pencil probation for one year for participation in Aronson's offense, did not appeal his case.

1916, Dr. Stever received his A.B. degree from Colgate University in 1938 and his Ph.D. in 1941 from California Institute of Technology, where he did significant research on cosmic rays and electronics for Geiger counter experiments.

After receiving his doctorate, Dr. Stever came to MIT as a member of the staff of the Radiation Laboratory, where he rose rapidly to a position of responsibility in the development of radar. From 1942 to 1945 he was Scientific Liaison Officer in London representing NDRC in work on radar and guided missiles. In recognition of his scientific contributions to the war effort, he was awarded the President's Certificate of Merit in 1948.

Dr. Stever returned to the Faculty of MIT after the war, becoming an assistant professor of aeronautical engineering in 1946 and associate professor in 1951.

## Student Conference On US Affairs Debates Problems Of Asian Nations

by Robert Alter '56

Seventh Student Conference on United States Affairs was held from November 30 to December 3 at the United States Military Academy at West Point, N. Y. There were two representatives each from sixty U. S. Colleges and six representatives from two Canadian Colleges. Robert Alter '56 and George Lurhmann '56 represented MIT at the conference.

The purposes of the conference were: 1) To produce an informative examination and discussion of the national security policy of the United States. 2) To provide an outstanding representation of college students with an appreciation of the complexities of government policy formulation. 3) To broaden students' contact with their contemporaries in an academic endeavor.

The Subject of the conference was, "The National Security Policy of the United States. The group was divided into seven round table groups which discussed the following topics: 1) Western European Security 2) Soviet-Satellite Unity 3) Regulation of Armament and U. S. Strategy 4) U. S. Security Interests in North Africa and the Middle East 5) Asian Neutralism and India 6) Nationalism and U. S. Security Interests in Southeast Asia 7) U. S. Security Interests in China.

Most of the attention of the con-

ference was focused on the middle and far eastern areas. These areas are just receiving their freedom from colonial rule and are coming out to take their place in the world. The delegates agreed that our ultimate objective in the world was to achieve world peace where our society would be able to grow and develop, and above all maintain its freedom. It was also felt that the immediate objective would be the establishment of a large area of friendly nations insuring that the Soviet Communists be contained and stopped from achieving their goal of world dominator.

Many internal problems were subjects of discussion. For example; the lingering isolation attitude, the tendency of the press and the people to consider actions in the foreign policy field as either black or white; i. e., as either complete victories or defeats, the pressures on legislators to cut taxes and reduce foreign aid programs.

On the international level the conference decided the major pressure is that either Communism will take over the world and we will lose our freedom, or there will be another world war and we will all be annihilated.

When making policy it was found to be necessary to look at the pressures on and objectives of the other

(Continued on page 4)

## Seminar On Computers Planned To Discuss Effects On Management

A special seminar, sponsored by the School of Industrial Management, will be held at the Institute from December 12 through 16. The subject for discussion will be the influence of electronic data processing on management, and the ancillary influence of management upon this new executive tool. The program will be supervised by Dr. Robert H. Gregory, assistant professor of accounting. His objectives, he says, will be "to appraise the characteristics and techniques of electronic data processing systems relevant to business management and to study recent developments in both local and long-distance data processing that are of special importance to management."

The seminar should have appeal to men in several areas of management: controllers, accountants, systems specialists, and auditors. It will assume familiarity with management but little knowledge of computers, according to Professor Gregory.

The program will cover the following subjects: analysis and revision of systems including statement of objectives, system description, economic appraisal, and revision of system to achieve new objectives; electronic data processing equipment and components; programming and coding (both manual and automatic) for solution of business problems; administration and cost of operation of an electronic data processing system; case studies in the use of data processing equipment reporting the experience of several firms in different industries; related developments that will make use of data processing equipment including operations research, linear programming, and inventory management; and important technical developments and their effect upon business information processing and business management.

In addition to Professor Gregory the following will give lectures and reports during the seminar:

Charles W. Adams, consultant to director of Office Methods and Procedures, Westinghouse Electric Corporation; assistant professor of digi-

(Continued on page 6)

## Christmas Dance At Baker Friday

Friday evening, December 9 Dormitory Council is presenting its Annual Christmas Dance, Winter Wonderland, a semi-formal to be given in Baker House from 9:00 p.m. until 1:00 a.m. The dance features Jerry Davis and his orchestra, the maestro who played at the Senior Dance at Baker House Junior Prom Week-end, who will again lend his talents to the dormitory affair. In addition Warren Moon, star of 1955 Tech Show, will again sing miscellaneous seasonal selections.

Refreshments will include Cuba Libre, Daiquiris, Screwdrivers, and assorted highballs. There will be bartenders on duty from 9:0 p.m. until the dance is over.

Tickets are on sale in Building 10 today for \$3.00 per couple. If you are unable to get your ticket at the door, they may be purchased from Roger Petrovov, Dormitory Social Chairman, Baker House, room 237, Marvin Manheim, Crafts 401 East Campus, or from the Burton Baker House social chairman.

# The Tech

Vol. LXXV Tuesday, December 6, 1955 NO. 46

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## calendar of events

WEDNESDAY, DECEMBER 7

Operations Research Seminar. "Organizational Components of an Operations Research Problem." Professor Russell L. Ackoff, Director, Operations Research Group, Case Institute of Technology, Room 2-239, 3:00 p.m.

Mathematics Department. Colloquium: "A Phragmen-Lindelof Principle in Harmonic Analysis." Professor Peter D. Lax, New York University. Tea in Room 2-290, at 4:00 p.m. Room 2-390, 4:30 p.m.

American Society of Mechanical Engineers—Student Branch. Student-Faculty Dinner open to all Course II students. Professor John E. Arnold will speak on "Is Teaching at M.I.T. Worthy of the Institute's Reputation?" Obtain tickets in advance in Room 3-364 at \$1.90 Miller Room, 5:30 p.m.

THURSDAY, DECEMBER 8

Metallurgy Department. Special Metallurgy Symposium: "New Developments in the Field of Tungsten, Molybdenum, and the Cemented Carbides." Dr. Richard Kieffer, Director of the Metallwerk Plansee, Reutte, Austria. Room 4-270, 4:00 p.m.

Lecture Series Committee. Film: "Decision Before Dawn." Admission, 30 cents. Room 1-190, 5:00, 7:30 and 9:30 p.m.

FRIDAY, DECEMBER 9

Alpha Phi Omega—M.I.T. Chapter. U.M.O.C. Contest Award. Lobby of Building 7, 12:00 noon.

Economics Department. Open Lecture: "Apartheid in South Africa—Survival or Ruin." Judge Frank A. Lucas, Queen's Counsel of South Africa. Library Lounge, 1:00 p.m.

Mechanical Engineering Department. Seminar: "Control-Systems Engineering." Dr. William W. Seifert, Division of Industrial Cooperation. Coffee in Room 3-174 from 3:00-3:30 p.m. Room 3-270, 3:30 p.m.

Varsity Hockey Team. Game with Northeastern University. Skating Rink, 7:00 p.m.

M.I.T. Management Association. Seminar: "Behind the Scenes in Course XV." Dean E. P. Brooks; Professors W. V. A. Clark, Douglas McGregor, and Howard Johnson. Schell Room, Building 52, 7:15-8:30 p.m.

Varsity Squash Team. Game with Navy. Squash Court, 7:30 p.m.

SATURDAY, DECEMBER 10

Rifle Team. Match with Dartmouth College Rifle Range, 2:00 p.m.

Varsity Squash Team. Game with Dartmouth College. Squash Court, 2:00 p.m.

Varsity Swimming Team. Meet with Bowdoin College. Alumni Pool, 2:00 p.m.

Varsity Hockey Team. Game with Amherst College. Skating Rink, 3:00 p.m.

Varsity Wrestling Team. Match with Tufts College. Rockwell Cage, 3:00 p.m. (Freshmen at 2:00 p.m.)

Informal Dance Committee. Third dance of the term. \$1.00 per couple. Morss Hall, Walker, 8:00 p.m.

Varsity Basketball Team. Game with Pratt Institute. Rockwell Cage, 8:15 p.m.

M.I.T. Orchestra. Concert. The featured work will be the Hadyn 'Cello Concerto, with Carlos Prieto, '58, soloist. Also on the program are the Overture to "The Magic Flute" by Mozart, and the Suite from "The Incredible Flutist" by Walter Piston. Admission charge: 75 cents. Kresge Auditorium, 8:30 p.m.

SUNDAY, DECEMBER 11

Modern Languages Department. Concert of French Christmas Songs. Kresge Auditorium, 3:30 p.m.

Humanities Department. Chamber music concert of compositions by Ernst Levy, Visiting Professor of Music. Program: Sonata for cello and piano; Aubade for flute, viola, and cello and Sonata for horn and piano. Performers: George Finckel (cello); Paul Keaney (horn); and M.I.T. faculty members Klaus Liepmann (viola); Gregory Tucker (piano); and Anton Winckler (flute). Admission is free. Room 10-250, 8:00 p.m.

MONDAY, DECEMBER 12

Acoustics Laboratory. Seminar: "Current Linguistic and Phonetic Research in Scandanavia." Dr. Antti Sovijarvi, University of Helsinki, Finland. Room 20E-225, 3:30 p.m.

Aeronautical Engineering Department. Seminar: "Preview of the 19th Annual Wright Brothers Lecture." Professor Raymond L. Bisplinghoff, Aeronautical Engineering Department. Coffee and cake in duPont Room from 3:30-4:00 p.m. Room 35-225, 4:00 p.m.

TUESDAY, DECEMBER 13

Aeronautical Engineering Department and Meteorology Department. Fluid Mechanics Lecture: "The Effect of Density Gradient and Shear on the Flow over a Hemispherical Hill." Professor William B. Hawthorne, Hunsaker Professor of Aeronautics, 1955-56. Room 24-502, 1:30 p.m.

Food Technology Department. Food Industry Seminar: "Modern Dairy Manufacturing." Mr. William Hinckley, Chief Engineer, Cherry-Burrell, Charlestown, Mass. Room 16-310, 2:00-4:00 p.m.

Junior Varsity Basketball Team. Game with Harvard University. Rockwell Cage, 7:00 p.m.

WEDNESDAY, DECEMBER 14

Electrical Engineering Department. Colloquium: "The Transfluxor—A Magnetic Gate with Stored Variable Setting." Dr. Jan A. Rajchman, R.C.A. Laboratories, Princeton, N.J. Refreshments in Room 10-280 at 4:30 p.m. Room 10-275 4:00 p.m.

Freshman Swimming Team. Meet with Dean Academy. Alumni Pool, 4:00 p.m.

American Society of Mechanical Engineers—Student Branch. Third Open Meeting. Dr. T.A. Boyd, General Motors Research Division, will speak on "On Being an Engineer." Room 10-250, 5:00 p.m.

Hillel Society. Second of a series of four lectures by M.I.T. humanities professors on the topic "Should I Believe?" Professor John M. Blum, historian, will speak on "Some American Experiences: Beliefs in Action." Library Lounge, 5:00 p.m.

M.I.T. Staff Players. Monthly Supper Meeting. Playreading in the Faculty Club Penthouse of "Passing of the Third Floor Back" by Jerome K. Jerome at 8:00 p.m. Faculty Club, 6:15 p.m.

Inter-Varsity Christian Fellowship. Meeting. Topic: "Our Mission." The Reverend Leiby, Rowley, Massachusetts. Room 10-280, 7:00 p.m.

Varsity Hockey Team. Game with University of New Hampshire. Skating Rink, 7:30 p.m.

## MIT Tops Tufts In Bridge Match; Face Harvard Law

In its second intercollegiate match of the year, the MIT Bridge Team defeated Tufts by 6500 points. The contest played two total point team of four matches with exchange boards so all four pairs for each college played each hand. Scoring separately the team of Jerry Davis '56, Al Klihanoff '56, Howard Cohen '57 and Jack Friedman '57 won 5000 points and the team of Al Hahn '56, Gilbert Weil '56, Dave Solow '56 and Jim Fleming '56 won 1500 points.

The team will compete against Harvard Law School tomorrow at Holmes Hall, Harvard. Tentative plans are being made for a quadrangular match at MIT with Yale, Harvard and Harvard Law. A rematch with Harvard, victors over Tech earlier this year, and the National Intercollegiate complete the team's schedule.

## Seven Seek APO Ugly Man Crown

Voting in the APO sponsored Ugly Man On Campus contest will be held daily at the booth in Building 10. Until the deadline on Thursday at 5:30 p.m. Awards will be made to the winners at noon of Friday in the lobby of Building 7. Names and sponsoring groups of the seven contestants follow: Jon Jansen '56, Baker; John Martin Ross '56, Burton; J. Martin Graetz '57, East Campus; Rich Simmons '59, Lambda Chi Alpha; Tony Scabola, Phi Kappa; Stu Uram '56, Walker Student Staff; Edward Towbin '59.

## Concert Band Plays At New Haven, Home Of Only New England Rivals

by Daniel B. Schneider '57

Veni, Vidi, Vici. This is what MIT Concert Bandmen proclaimed after their performance Sunday at Yale University in New Haven, Connecticut—and with complete justification. There are but two concert bands in New England which are worth mention: Yale's and MIT's, and unless Yale gets to work there may soon be only one.

The Yale band, which we hope MIT may soon hear, is an established organization boasting 74 musicians, of which about 40 per cent are School of Music majors. They perform both original works for band and orchestral transcriptions, in contrast to MIT's policy of playing original compositions exclusively. However, in the scope of original works, Yale tends toward those which were written in the 17th Centuries, while MIT prefers music composed during the last fifty years, as the Cambridge musicians feel that this music best displays the wind sound. In accordance with this attitude, the Concert Band performed a program of 20th Century compositions at New Haven.

During the intermission, the reporter was able to solicit candid impressions and opinions of various members of the Yale band, the general gist of which was that, on the whole, the MIT band is every bit the equal of, and at times sounded better than, the Yale organization. The Yale bandmen felt that whereas the Institute group lacked depth in woodwinds, they more than compensated for it by an amazing superiority in brass and percussion.

The Concert Band rendered an excellent performance which was, unfortunately, marred by the bad reverberation of Woolsey Hall. The *Symphony for Winds and Percussion*, by Thomas Beversdorf, which the band presented in Kresge Auditorium on November 18, enjoyed a much finer performance in New Haven, and was well received.

When one contemplates what has been accomplished by 72 amateur musicians at a technical university in just two years one cannot look to the future with anything other than optimism and wonderment.



### THE TRUE AND TRAGICAL TALE OF HAPPY JACK SIGAFOOS

Who would have thought that Happy Jack Sigafoos, the boy the sky never rained on, would ever teeter on the edge of a life of crime?

Certainly there was no sign of it in his boyhood. His home life was most tranquil and uplifting. His mother was a nice plump lady who hummed a lot and gave baskets to the poor. His father was a highly respected citizen who could imitate more than four hundred bird calls and once saved an elderly widow from drowning in his good suit. (That is, Mr. Sigafoos was in his good suit; the elderly widow was in swimming trunks.)



Happy Jack's life was nothing short of idyllic—until he went off to college.

In college Happy Jack quickly became a typical freshman—tweedy, seedy, and needy. He learned the joys of rounding out his personality, and he learned the cost. His allowance vanished like dew before the morning sun. There were times, it grieves me to report, when he didn't even have enough for a pack of Philip Morris—and you know how miserable that can be! To be deprived of Philip Morris's gentle flavor, its subtly blended tastiness, its trauma-repairing mildness, its ineffable excellence—why, it is a prospect to break the heart in twain!

Happy Jack tried to get more money from home. He wrote piteous and impassioned letters pointing out that the modern large-capacity girl simply could not be maintained on his meagre allowance. But all Jack got from home were tiresome homilies about thrift and prudence.

Then one day a sinister sophomore came up to Jack and said, "I know how you can get more money from home." Jack said, "How?" and the sinister sophomore handed him a sheet of paper, "For one dollar," said the sinister sophomore, "I will sell you this list of fiendishly clever lies to tell your father when you need extra money."

Jack read the list of fiendishly clever lies:

1. A bunch of us fellows are getting together to buy a new house for the Dean of Men.
2. A bunch of us fellows are getting together to buy a he-lstone for Rover, our late, beloved dormitory watchdog.
3. A bunch of us fellows are getting together to buy the collar of a new fullback.
4. A bunch of us fellows are getting together to endow a chair of fine arts.
5. A bunch of us fellows are getting together to build our own space satellite.

For a moment, poor Jack was tempted; surely his father could not but support all these worthy causes. Then Jack's good-bringing came to the fore. He turned to the sinister sophomore and said, "No, thank you. I could not deceive my aged parents. And as for you, sir, I can only say—Fie!"

Upon hearing this, the sinister sophomore broke into a big grin. He whipped off his black hat and pasty face—and when you think it was? None other than Mr. Sigafoos, Happy Jack's father, that's who!

"Good lad," cried Mr. Sigafoos. "You have passed your test brilliantly." With that he gave Happy Jack a check for a half million dollars and a red convertible containing four nuclear maidens.

Crime does not pay!

©Max Shulman '55

The makers of Philip Morris, sponsors of this column, could not care more. But we'll tell you what does pay—smoking America's gentle cigarette... new Philip Morris, of course!



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Conrad N. Hilton, President

# Examination Schedule — Fall Term 1955-1956

Subject No. and Name	Year	Examiner	Subject No. and Name	Year	Examiner	Subject No. and Name	Year	Examiner	Subject No. and Name	Year	Examiner
<b>MONDAY, JANUARY 23</b>											
9 A.M.											
1.7 Fluid Mechanics	3	Harleman	1.367 Soil Technology	G	Lambe	2.403 Heat Engineering	3	Keenan	8.731 Int. to Quant. Th.	G	Drell
1.7 Water Power Eng.	G	G. R. Williams	1.601 Fluid Mechanics	3	Ippen, Daily	2.41 Heat Engineering	3-4	Svenson	10.17 Ind. Chemistry	2-3	Satterfield
2.7 Int. Comb. Eng.	4	Rogowski	1.75 Water Sup. & Purif.	4	Stanley	2.411 Heat Engineering	3	Svenson	10.32 Chemical Eng.	4	Vivian
4.7 Struct. Analysis	3	Gelotte	2.003 Applied Mechanics	3	Adkins	2.79 Elem. Int. Comb. Eng.	4	Rogowski	10.52 Chemical Eng.	4	Mckley
5.7 Phys. Chemistry	3	Stockmayer	2.213 Gas Turbines	G	E. S. Taylor	4.87 Ind. Location & Reg. Development: Prin.	G	Isard	13.01 Naval Architecture	3	Manning
6.7 Elect. Cont. & Meas.	4	Beranek	2.225 Physics of Strength and Plasticity	G	Orowan	5.41 Org. Chemistry	3	Buchi	15.81 Marketing	3	Jack
6.8 Fund. of Acoustics	4	Beranek	5.73 Chem. Thermodyn.	G	Scatchard	6.521 Elec. Energy Conv. Devices	G	Kusko	20.01 Chemistry & Tech. of Food Supplies	3	Sherman
6.8 Eng. Acoustics	G	Beranek, Bolt	6.03 Fields, Materials and Components	3-4	Fano, Epstein	6.571 Sta. Th. of Comm.	G	Y. W. Lee	M39 Methods of App. Math. Special Examinations	G	Hildebrand
6.8 Power System Anal.	G	Wildes	6.56 Math. Methods in Elec. Eng.	3-4	Fano, Epstein	8.05 Physics of Atoms, Molec. & Nuclei	3-4	Zacharias	<b>THURSDAY, JANUARY 26</b>		
6.5 Switch. Circuits	G	S. H. Caldwell	8.01 Physics	1	Ingard	8.051 Atom. & Nucl. Phys.	3, G	Buechner	1.30 P.M.		
8.5 Neutron Physics	G	Goodman	8.012 Physics	1	Newburgh	M11 Calculus	1	Douglass	1.561 Adv. Struct. Mech.	G	Norris
10.2 Ind. Chemistry	G	Michaels	8.08 Electronics	3	Harvey	M12 Calculus	1	Douglass	1.72 Hydrology & Hy. Eng.	4	G. R. Williams
13.5 Marine Eng. Dyn.	4-G	F. M. Lewis	10.28 Chemical Eng.	3-4	Sherrill	M411 Numerical Anal. Special Examinations	G	Hildebrand	2.001 App. Mechanics	2	Crandall
16.1 Applied Aerodyn.	3	Ober	13.73 Mech. Vibration	G	F. M. Lewis	<b>WEDNESDAY, JANUARY 25</b>					
16.1 Adv. Stability & Control of Air.	G	Larrabee	14.581 Int. Economics	3-4	T. M. Hill	1.30 P.M.					
17.4 Adv. Job Manage.	G	Gumpertz	15.50 Accounting	3	Willett	1.571 Stat. Indet. Struct.	G	H. Simpson	2.002 App. Mechanics	2	Dahl
19.7 Elem. Phys. of Atmos.	3	Houghton	19.01 Desc. Meteorology	3	Willett	1.681 Exp. Hydromech.	G	Ippen	2.252 Fluid Mechanics	4	Erickson
H11 Found. West. Civil.	1	McMaster	M381 Th. of Functions	G	Helgason	1.681 Exp. Hydromech.	G	Keenan	3.20 Metal. Thermodyn.	4	Wagner
H11 Found. West. Civil. (Special)	1	Tassie	N31 Nuclear Chem. Eng. Special Examinations	G	Benedict	6.581 Trans. in Lin. Syst.	G	J. T. Norton	5.71 Chem. Thermodyn.	G	Beattie
M35 Adv. Calc. for Eng. Th. & App. Elast.	3-4-G	Hildebrand	<b>TUESDAY, JANUARY 24</b>								
M79 Special Examinations	G	Reissner	1.30 P.M.								
<b>MONDAY, JANUARY 23</b>											
1.30 P.M.											
1.41 Struct. Analysis	4-G	Mirabelli	1.35 Soil Mech. & Found. Eng.	4	Aldrich	6.213 Feedback Cont. Prin.	G	Lord	6.30 Comm. & Cont. Cir. Theory	4	Guillemin
1.65 Free Surface Flow	G	Ippen	1.351 Soil Mech. & Found. Eng.	4	Aldrich	8.03 Physics	2	Campbell	6.581 Trans. in Lin. Syst.	G	Gardner
2.08 Strength of Mat.	2-3-G	DenHartog	1.63 App. Hydromech.	G	Daily	8.031 Physics	4	Bitter	7.01T General Biology	2	Sanborn
3.02 Metallurgical Eng.	4	T. B. King	2.43 Heat Engineering	G	Kaye	10.45 Quant. Th. of Mat. Distill. & Absorpt.	G	Rossi	13.53 Marine Eng.	4	Burtner
4.41 Arch. Acoustics	4	Newman	3.83T Mineral Eng.	G	deBruyn	14.271 Prob. in Ind. Econ.	G	Slater	14.451 National Income	2	Millikan
5.43 Org. Chemistry	4	F. D. Greene	5.51 Adv. Org. Chem.: Synthesis	G	Cope, House	15.61 Business Law	G	Merrill	M32 Elem. Statistics Special Examinations	3-4	E. A. Robinson
5.77 Crystal Structure & the Chemical Bond	G	Shoemaker	6.07 Energy Trans. & Rad.	4	Adler	16.105 Applied Aerodyn.	G	Adelman	<b>FRIDAY, JANUARY 27</b>		
6.06 Elec. Power Mod.	G	White	6.071 Energy Trans. & Rad.	4	Adler	17.41 Eng. Prop. of Plast. Chem. Eng. Food App. Part. Diff. Equa. Special Examinations	G	Macmillan	9 A.M.		
6.62 Microwave Circuits	G	Haus	6.623 Prin. Pulse Circ.	G	Zimmerman	20.13 Chem. Eng. Food App. Part. Diff. Equa. Special Examinations	G	Ober	2.25 Fluid Mechanics	3	Erickson
8.72 Int. Theoret. Phys.	4	A. G. Hill	8.21 Phys. Electronics	G	Nottingham	6.001 Int. Circ. Theory	G	Dietz	2.31 Mech. Prop. of Mat.	4	Orowan
10.31 Chemical Eng.	4	Gilliland	14.121 Economic Analysis	G	Bishop	6.311 Electronic Circ. for Comm. and Stat. Th. of Noise and Modulation	G	Charm	5.79 Kinetic Theory	G	Stockmayer
11.13 War. Struct. Th.	G	J. H. Evans	16.13 Air Stab. & Cont. Chem. of Nutrition	4	Bicknell	6.573 Stat. Th. of Noise and Modulation	G	Calderon	7.05 Gen. Biochem. & Phys.	4	Buchanan
19.60: Int. Theor. Meteor. The United States; Men & Issues	2	Chandler	20.32 Bacteriology	3	Dunn	12.801 Theoret. Geology	G	Hawthorne	16.20 Aircraft Struct.	3	Sandorff
H21 Modern Western Ideas & Values	2	I. H. Bartlett	20.41 Calculus	3	Zeldin	20.001 Food Production	G	Hrones	N21 Nucl. Reactor Th. Special Examinations	2	Sherman
H21 Humanities (Special)	2	Locke	M21 Diff. Equations	2	Zeldin	3.31 Phys. Metallurgy	3	Bever	<b>FRIDAY, JANUARY 27</b>		
M62 Modern Algebra Special Examinations	3	Reynolds	M22 Adv. Calculus for Eng. Analysis Special Examinations	3	Hildebrand	5.01 General Chemistry Electronic Circ.	3	Stephenson	1.30 P.M.		
<b>TUESDAY, JANUARY 24</b>											
9 A.M.											
1.361 Soil Mechanics	G	D. W. Taylor	1.365 Seep. through Soil; Frost Action	G	Aldrich	6.021 Electronic Circ.	3	S. J. Mason	2.37 Mech. Behavior of Mat.	4	Shank
			1.91 Eng. Construction	G	Babcock	6.16 Electricity	3	Jones	6.291 Prin. of Radar	4	Reintjes
			2.211 Adv. Mechanics	G	DenHartog	6.561 Net. Anal. & Synth.	G	S. J. Mason	6.605 Adv. Feedback Control The.	G	Newton
			2.40 Heat Engineering	G	Svenson	7.03 Genetic Cytology	G	Eager	6.637 Beam-Type Microwave Tubes	G	Haus
			2.401 Heat Engineering	G	Svenson		G	Guillemin	M341 Mod. Stat. Theory Special Examinations	4	Thomas
			2.402 Heat Engineering	G	Wadleigh		3	H. W. Lewis			

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Copies of the Examination Schedule will be available in the Information Office, Room 7-111, about December 12. Extract from Catalogue, p. 40: "Each student is held responsible for obtaining an examination schedule at the Information Office, Room 7-111; for attending the final examinations required in the subjects for which he is registered; and for reporting any conflicts in his examinations before the time limit given on the examination schedule." In case of conflicts, students should follow directions on the examination schedule when it is issued.

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# Don Pasquale Played to Capacity Audience; Performance Praised

by William J. Aiston '56  
Sunday night a capacity audience in Kresge Auditorium saw the final performance in a national tour by The New England Opera Theatre of Donizetti's comic opera, *Don Pasquale*. The months of intense preparation of the work was evident, and Mr. Goldovsky is to be again commended for such successful productions.

The opera is one of those slight things that seldom stay in the repertoire, and need a spirited performance to keep from becoming flat. Unfortunately Sunday evening's performance dragged at times, and not until the second act did the audience become interested in what was going on. But this was the fault of the work as much as that of the conductor.

James Joyce's portrayal of the abused Pasquale contained all of the gusto needed for buffa opera. His voice was suited to the music and his even, solid production was a joy to hear. Robert Gay, in the role of Doctor Malatesta, seemed miscast; his voice lacked body resonance and was far from smooth. A darker voice would have been better for the part. It seems incredible that Joyce and

Zug '56, Augustine Heard Gray, Jr. '57, Keung Poy Luke '57, Robert Read Batchelder '57, Harold Palmer Smith, Jr. '57, Thomas Cadwallader Thomas '57.

Gay alternated parts during the tour. Jaqueline Bazinet, as the enterprising Norina, showed lots of sparkle and sang quite loud. She's a fine musician, but her portrayal of Norina seemed to waver between a soubrette and a "broad". But she was very entertaining, though one wonders what a daintier figure and voice could have done with the part.

David Randall, as Ernesto, Norina's sweetheart, didn't quite measure up to his colleagues, and his thin, white voice was often lost in the ensembles.

The English translation of Mr. Goldovsky's helped a lot, but in spite of it, one still couldn't understand Miss Bazinet, who might have been singing in Italian. The men enunciated quite clearly.

The orchestra sounded very nice and the balance was excellent. Mr. Goldovsky's tempos were conservative at times. If one searches long enough he can find old Italian recordings made around 1910 of excerpts from the opera, and the speed at which they were sung is amazing. But forty years ago singers were not so concerned about words being understood.

The New England Opera Theatre's production in June on the Boston Common of *Don Pasquale* was better paced than Sunday evening's. Perhaps months of rehearsal and performances wore them down a little. Yet at the same time the performance was polished and a unity.

## Student Conference

(Continued from page 1)

countries. With the underdeveloped countries, perhaps the most dominant force is the internal pressure to become industrial, and, in a sense, economically stable. Secondly, there is a very strong fear of the western power left from the colonial ties. In some cases these ties still exist. In general, Asian countries are trying to stay out of entangling alliances in order to keep their independence, and to get a position of importance without military strength. They want to be able to vote as they feel on each issue, and not be tied to a block and vote as the block votes.

As for Western Europe, it was felt important to try and unify Germany, but not at the expense of having Germany fall into Soviet hands.

It appeared to the delegates that we have been using economic means to win countries to our type of democracy while the Russians have been using force. The recent shift of the Russians to an economic offensive appears to be a recognition on their part of the effectiveness of our stand. There was considerable feeling that we have reached a position where it will be necessary to compete in an economic as well as a weapons race. As one of the strongest pressures on most underdeveloped countries is obtaining capital to start their country on the road to economic growth, the conference realized that we must develop a world wide economic aid program, administered without any military or political strings attached.

## Tau Beta Pi

(Continued from page 1)

Paul Jerome Berenson '56, Donald Edmund Block '56, Thomas Cox Boberg '56, Warren Grover Briggs '56, Forbes Taylor Brown '56, John Joseph Collins, Jr. '56, James Rosholt Coult '56, Irwin Dorros '56, Charles Bezelel Fink '56, Kevin John Forsberg '56, Luis Enrique Franceschi-Ayala '56, John Carroll Frisbett '56, John Miller Funderburg '56, Ronald B. Goldner '56, Thomas Lynn Grettenberg '56, Bernard Lee Hass '56, Albert Victor Hahn '56, Peter Redfern Hall '56, Joel A. Hamilton '56, Morrin Emerson Hazel, Jr. '56, Nathan Lord Hazen '56, Eduardo Del Hierro '56, Sigurd Hoyer '56, Thomas Waterman Joy '56, Robert Kaiser '56, Dean Charles Karnopp '56, Robert John Kroos '56, Charles Lembit Kusik '56, Paul Herbert Luckett, III '56, George Francis Luthringer '56, John William McCarthy '56, Dimitri Anthony Manthos '56, Ronald Joseph Massa '56, David Hilderly Mitchell '56, Edward George Najjar '56, Richard Ellis Norwood '56, Raymond Sheldon Peck '56, Roberto Perez-Amador '56, John Franklin Pierce '56, Martin Harold Reiss '56, Wendyl Albert Reis, Jr. '56, Jory Irwin Schlenker '56, Lowell Melvin Schwartz '56, Richard Earl Skavdahl '56, Robert Lee Stapleford '56, Robert Grant Taylor, Jr. '56, Richard Lee Unruh '56, Jon Chrsition Walter '56, Bruce Daniels Wedlock '56, Rollo Dawson

# SAE Leads In Intramural Football Playoffs

by Bill Daly '58

Play in the almost forgotten intramural football championships was resumed last week-end after a three-week layoff. SAE kept their season's record clean by dropping a previously undefeated Phi Delt squad while the once defeated Betas knocked off the crippled Phi Gams. The standings so far:

	Won	Lost
Sigma Alpha Epsilon	2	0
Phi Delta Theta	1	1
Beta Theta Pi	1	1
Phi Gamma Delta	0	2

If all goes according to schedule, the title will be decided next week-end when the Phi Delt meet the Phi Gams and SAE meets the Betas. If a three way tie develops it will not be played off.

In the big game of the day, a driving SAE defensive line held the Phi Delt offensive attack to four first downs, while Bob Balacek '58 threw two touchdown passes to Al Bell '56 to lead the SAE eight to a 12-0 victory. In the first quarter the Phi Delt recovered a fumbled punt attempt on the SAE 20-yard line but

were unable to advance. The winners scored first in the second quarter when Balacek passed from the 35 to the Phi Delt 20, with Pete Hohorst '57 receiving and continuing on to the 5, where he was stopped by Wait Ackerland '58. Balacek threw again to "Killer" Broward to the one and then hit Bell in the end zone for the score. In the third quarter Balacek again hit Bell, this time of the Phi Delt 30, and he went the rest of the way to close out the scoring. The Phi Delt's only other thrust in the game came in the second quarter when Ackerland took a pass from Ben Lightfoot '56 on the SAE 45 and went all the way to the 15. The SAE defense once again dug in and stopped the threat cold. The SAE offense threatened again in the waning moments of the game when Hohorst took a lateral from Balacek on a reverse play and went 30 yards to the Phi Delt 10, but the threat was stop-

ped there. Bill Calvert '56 and Dave Berg '58 were standouts on the SAE line and John Watts '56 turned in a great game at blocking back. Ackerland and Lightfoot led the Phi Delt attack.

In the second game the Phi Gams were unable to get any offense rolling without their injured tackle Tom Hoffman '56, and with three men out of their defensive line were unable to stop the Beta attack. The Betas again presented a precision team, playing with cleated sneakers and rubber teeth protectors. Bob MacDonald '56 and Ray Bowen '56 led the winners ground attack with MacDonald going around left end for six yards and the first score to end a 75-yard sustained drive following the opening kickoff. The following kickoff was fumbled on the two-yard line and on the first play the Phi Gams

(Continued on page 6)

## FROSH MATH CONTEST

The annual mathematics competition for freshmen will be held this Saturday, December 10, at 1:00 p.m. in room 4-370. Entrants need not sign up in advance. The contest is sponsored by the MIT Math Society. Prizes of \$15, \$10, and \$5 will be awarded.

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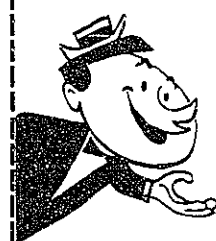
For solution, see paragraph at right.

THERE'S NO GETTING AROUND IT—Luckies taste better. And there's no getting around that thing in the Droodle at left, either—the Droodle's titled: Lucky smoker with bum seat at football game. Poor guy is really *up against it*. But he's got a swell point of view on smoking—he smokes Luckies for better taste. Luckies taste better because they're made of fine tobacco that's TOASTED to taste better. Chances are our friend in Section 28 is thinking, "This is the best-tasting cigarette I ever smoked!"

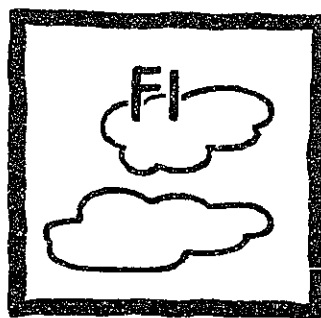
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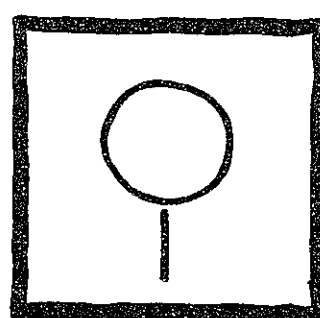
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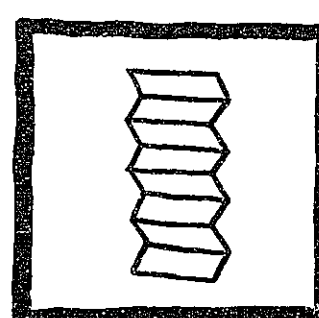
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# Suffolk Drubs Sloppy Quintet In Opener; Late Trinity Rally Tops Engineers, 78-73

Opening the '55-'56 basketball season with two games within three days, the Beaver varsity was dumped by Suffolk, 71 to 57 on Thursday, and was edged by a strong Trinity squad, 78 to 73 on Saturday, both games played in the cage.

Suffolk broke away fast in the beginning of the first quarter and was leading 23 to 14, at the end of the period. The Beavers then tightened up on defense and the point spread remained at around 10 points for the rest of the first half. The Engineers started the second half as if they were a new ball club with center and co-captain Dee Vergun '56 hitting very well, and near the end of the third quarter the score was tightened up to 41 to 40 Suffolk. The visitors then broke out of their lapse to score three straight field goals and stay permanently out of reach of the hapless Beavers. The two biggest points which seemed to be bothering the Cardinal and Grey were first game nervousness and lack of confidence, as, with the exception of the third

quarter, their plays were not running smoothly and their shots were not sharp.

Trinity, one of the stronger teams on the Engineer schedule, was out-rushed and outplayed for the better part of the first half, and was saved only by a superior shooting percentage. Coach Scotty Whitelaw's basket-keepers took the first substantial lead of the game, when, with the score tied 22 to 22, Vergun hit with a jump from 10 feet, co-captain Bernie Benson '56 swished a long one hander, and Vergun hit again from the corner, to build up a 6-point lead. The co-captains extended the lead to 39 to 31 with successive baskets near the end of the half, but Salmon and 6', 8" center Godfrey hit for Trinity just before the buzzer to make the score at the half 39 to 35. Mac Jordan '58 scored with a tip-in and a foul at the start of the second half to extend the lead to 7 points, but, after an exchange of baskets, Trinity started to gain and held a 9 point lead by the middle of the half. With the score

74 to 67 Trinity, guard Paul Repetto '58 swished a jump, Vergun tipped one in, and Benson sank a long set to bring the Beavers within a point of the Hilltoppers with about a minute to go, but McGowan and Salmon hit for Trinity to ice the game and make the final score 78 to 73. The Techmen outrebounded Trinity 2 to 1 in the first half, while the rebounding was fairly even in the second. Trinity had a better shooting percentage throughout the game. The Beavers worked well as a unit and shook the nervousness which plagued them in the Suffolk game.

The Freshmen won their second of the season over Trinity Frosh, 59 to 56. The point spread was never greater than 6 points. The Little Beavers worked a weave with accurate outside shooting very effectively against the visitor's 2-3 zone defense. Outstanding for the Frosh were Larry Jones, Bob Pulutcho, and Dick Briggs.

# Grapplers Bow To Wesleyan, 15-5; Vertin, Jones Score Tech Points

The Beaver wrestling team opened its season bowing to Wesleyan university, one of the top teams in New England, 15-5. The Engineers were better than this score would indicate, with close matches and good wrestling an evidence throughout the afternoon. Tony Vertin '57 and Harris Hyman '58 scored victories for the Techmen with Ken Jones '57 fighting to a draw.

Bob Boese '58 started off fast with a takedown in the first period and maintained his lead until the end of the second, when Winslow, Wesleyan's 123 pounder reversed. Picking up two more points at the start of the third period, he rode Boese out for the Cardinals' initial win. The 130-pound bout almost duplicated the first match at a much faster and more exciting pace, when Fricke decisioned MIT's Ray Ortler '58 by a 7-3 score. Ortler was off top form, having gone undefeated as a Freshman last year and having taken third in the New England.

Pete Magyar '57 fell to the Wesleyan captain, Jimmy Grammentine, runner up in last year's NEI's. Magyar looked good in the first period and escaped at the very start of the second but Grammentine proved too much for him and pinned him in 2:15 of the second round. Harris Hyman '58 edged Bob Fisher at 147 pounds. Tech's captain John Hirschi lost an extremely close decision to Ken Davies. Davies and Hirschi are potentially the two top men in the 157-pound class in New England, having finished second and third in the '55 championships. Hirschi has recently recovered from a leg injury and has had only one week of intensive practice.

George Davies, twin brother of Ken, and another of the league's better grapplers, pinned Mike Brenner '57 in 5:45. Former heavyweight Tony Vertin, moved down this year

to the 177's, edged Don Fuhrmann in the best match of the afternoon. The ref called a fall on Vertin at the end of the first period. Unfortunately, the call was obscured by the cheering crowd. Tony rallied to make up the deficit plus an extra point to win in the last period. Heavyweight Ken Jones '57 fell behind in the first period but finally settled down, coming back to split with his Wesleyan opponent, Dunn.

Coaches Maloney and Haddad were disappointed but not thoroughly displeased with the team's performance. Wesleyan is one of the best teams in the league and fielded good men at every weight. The Beavers should look far better later on in the season when they are in top condition.

Doc Stella's freshmen threw a real scare into Wesleyan when they won their first four matches, three by falls. The Cardinals rallied with three pins of their own and picked up a forfeit in the last match to edge the MIT '59'ers by a 16-14 score. Traditionally weak, this year the freshmen have their best team in years and should improve in subsequent meets.

Joe Morse, who had never wrestled before coming to the Institute, led off with a fall in the second period. Damon Cumming repeated the trick and was followed by a decision by Bob Blum over the Wesleyan captain. John Linderman beat one of their better men to secure a fall in the last period. Losing the next three by falls, the Engineers could field no heavyweight, giving Wesleyan the edge they needed to win.

# Iceemen Lose, 12-4 To Dartmouth Six

The Beaver hockey team began a fifteen game schedule with a 12-4 defeat at the hands of a perennially strong Dartmouth sextet. The Engineers were outclassed during most of the contest but put up a scrappy fight and outskated and outplayed the Big Green during the latter part of the second period.

The Indians scored three times in the opening period and led 3-0 at the beginning of the second period. Dartmouth completely dominated the puck and scored four more times in the first eight minutes of the period. The Green's first line of Oakes, Toneson and Sprott set up several fine plays with good passing. Jim Coult '56, the Beaver's defensive stalwart, received a shoulder injury which put him out for the rest of the game.

The Engineers began to fight back and outskated Dartmouth for the rest of the period. Jim Bachman '56 set up the first Tech goal as he skated through the Indian defense and passed to Paul Skala '58 who scored at 14:27. Bev Goodison '57 scored his first of two goals at 18:57 assisted by Hank Durivage '57. This made the score 7-2 at the end of period two.

The Big Green scored at 6:10 and 9:57 of the last period to widen the gap to 2-9. Goodison lifted in the puck on a good pass from Gus Schwartz '56. The Beavers continued to fight back as John Sullivan '56 slapped in a Schwartz rebound at 13:50. The Indian's Sprott beat the goalie twice in the last seven minutes to complete a hat trick. His score at 17:57 made the final count 12-4.

## Goodison, Aitken Standout

The Green's Captain Toneson was the top scorer with two goals and two assists. Sandy Aitken '56, the Beavers' goalie, had a real workout with 41 saves while the visitors' goalie stopped 14. Bev Goodison, 1st line wing played a good offensive game and, on defense, continually harassed the Indian line.

The Beavers play two games this week; Friday night against Northeastern at 7:30 p.m. and Saturday afternoon at 3:00 p.m. both at the Tech rink.

### BOX SCORES

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Benson	4 Moore	29
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Jordan	4 White	5 Godfrey
Platzman	5 Grassl	34
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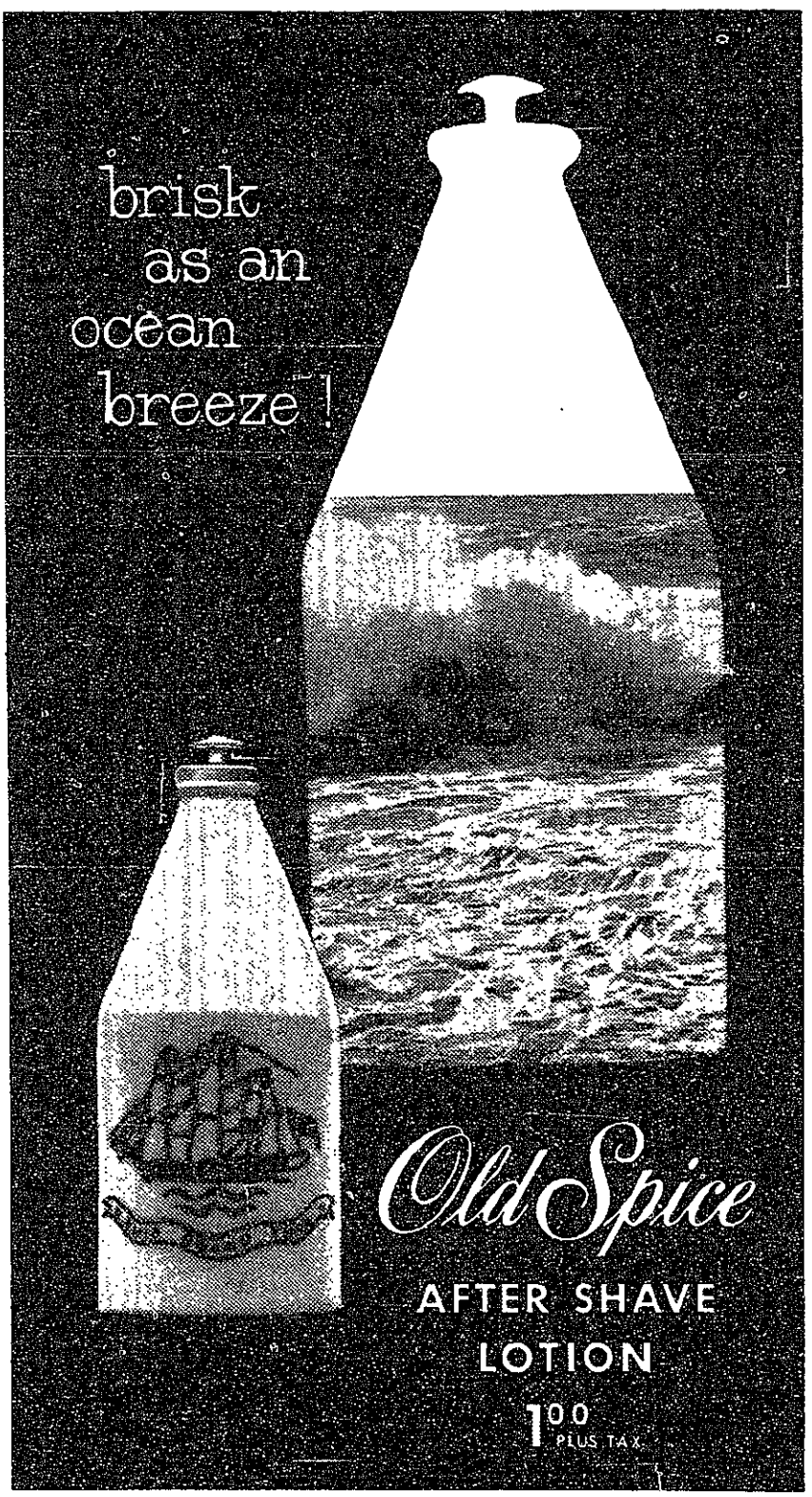
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# Don Pasquale Played to Capacity Audience; Performance Praised

by William J. Alston '56  
Sunday night a capacity audience in Kresge Auditorium saw the final performance in a national tour by The New England Opera Theatre of Donizetti's comic opera, *Don Pasquale*. The months of intense preparation of the work was evident, and Mr. Goldovsky is to be again commended for such successful productions.

The opera is one of those slight things that seldom stay in the repertoire, and need a spirited performance to keep from becoming flat. Unfortunately Sunday evening's performance dragged at times, and not until the second act did the audience become interested in what was going on. But this was the fault of the work as much as that of the conductor.

James Joyce's portrayal of the abused Pasquale contained all of the gusto needed for buffa opera. His voice was suited to the music and his even, solid production was a joy to hear. Robert Gay, in the role of Doctor Malatesta, seemed miscast; his voice lacked body resonance and was far from smooth. A darker voice would have been better for the part. It seems incredible that Joyce and

## Student Conference

(Continued from page 1)  
countries. With the underdeveloped countries, perhaps the most dominant force is the internal pressure to become industrial, and, in a sense, economically stable. Secondly, there is a very strong fear of the western power left from the colonial ties. In some cases these ties still exist. In general, Asian countries are trying to stay out of entangling alliances in order to keep their independence, and to get a position of importance without military strength. They want to be able to vote as they feel on each issue, and not be tied to a block and vote as the block votes.

As for Western Europe, it was felt important to try and unify Germany, but not at the expense of having Germany fall into Soviet hands.

It appeared to the delegates that we have been using economic means to win countries to our type of democracy while the Russians have been using force. The recent shift of the Russians to an economic offensive appears to be a recognition on their part of the effectiveness of our stand. There was considerable feeling that we have reached a position where it will be necessary to compete in an economic as well as a weapons race. As one of the strongest pressures on most underdeveloped countries is obtaining capital to start their country on the road to economic growth, the conference realized that we must develop a world wide economic aid program, administered without any military or political strings attached.

## Tau Beta Pi

(Continued from page 1)  
Paul Jerome Berenson '56, Donald Edmund Block '56, Thomas Cox Boberg '56, Warren Grover Briggs '56, Forbes Taylor Brown '56, John Joseph Collins, Jr. '56, James Rosholt Coult '56, Irwin Dorros '56, Charles Bezelel Fink '56, Kevin John Forsberg '56, Luis Enrique Franceschi-Ayala '56, John Carroll Frishett '56, John Miller Funderburg '56, Ronald B. Goldner '56, Thomas Lynn Grettenberg '56, Bernard Lee Hass '56, Albert Victor Hahn '56, Peter Redfern Hall '56, Joel A. Hamilton '56, Morrin Emerson Hazel, Jr. '56, Nathan Lord Hazen '56, Eduardo Del Hierro '56, Sigurd Hoyer '56, Thomas Waterman Joy '56, Robert Kaiser '56, Dean Charles Karnopp '56, Robert John Kroos '56, Charles Lembit Kusik '56, Paul Herbert Luckett, III '56, George Francis Luthringer '56, John William McCarthy '56, Dimitri Anthony Manthos '56, Ronald Joseph Massa '56, David Hilderly Mitchell '56, Edward George Najjar '56, Richard Ellis Norwood '56, Raymond Sheldon Peck '56, Roberto Perez-Amador '56, John Franklin Pierce '56, Martin Harold Reiss '56, Wendyl Albert Reis, Jr. '56, Jory Irwin Schlenger '56, Lowell Melvin Schwartz '56, Richard Earl Skavdahl '56, Robert Lee Stapleford '56, Robert Grant Taylor, Jr. '56, Richard Lee Unruh '56, Jon Chrsition Walter '56, Bruce Daniels Wedlock '56, Rollo Dawson

Zug '56, Augustine Heard Gray, Jr. '57, Keung Poy Luke '57, Robert Read Batchelder '57, Harold Palmer Smith, Jr. '57, Thomas Cadwallader Thomas '57.

Gay alternated parts during the tour. Jaqueline Bazinet, as the enterprising Norina, showed lots of sparkle and sang quite loud. She's a fine musician, but her portrayal of Norina seemed to waver between a soubrette and a "broad". But she was very entertaining, though one wonders what a daintier figure and voice could have done with the part.

David Randall, as Ernesto, Norina's sweetheart, didn't quite measure up to his colleagues, and his thin, white voice was often lost in the ensembles.

The English translation of Mr. Goldovsky's helped a lot, but in spite of it, one still couldn't understand Miss Bazinet, who might have been singing in Italian. The men enunciated quite clearly.

The orchestra sounded very nice and the balance was excellent. Mr. Goldovsky's tempos were conservative at times. If one searches long enough he can find old Italian recordings made around 1910 of excerpts from the opera, and the speed at which they were sung is amazing. But forty years ago singers were not so concerned about words being understood.

The New England Opera Theatre's production in June on the Boston Common of *Don Pasquale* was better paced than Sunday evening's. Perhaps months of rehearsal and performances wore them down a little. Yet at the same time the performance was polished and a unity.

# SAE Leads In Intramural Football Playoffs

by Bill Daly '58

Play in the almost forgotten intramural football championships was resumed last week-end after a three-week layoff. SAE kept their season's record clean by dropping a previously undefeated Phi Delt squad while the once defeated Betas knocked off the crippled Phi Gams. The standings so far:

	Won	Lost
Sigma Alpha Epsilon	2	0
Phi Delta Theta	1	1
Beta Theta Pi	1	1
Phi Gamma Delta	0	2

If all goes according to schedule, the title will be decided next week-end when the Phi Delt meet the Phi Gams and SAE meets the Betas. If a three way tie develops it will not be played off.

In the big game of the day, a driving SAE defensive line held the Phi Delt offensive attack to four first downs, while Bob Balacek '58 threw two touchdown passes to Al Bell '56 to lead the SAE eight to a 12-0 victory. In the first quarter the Phi Delt recovered a fumbled punt attempt on the SAE 20-yard line but

## FROSH MATH CONTEST

The annual mathematics competition for freshmen will be held this Saturday, December 10, at 1:00 p.m. in room 4-370. Entrants need not sign up in advance. The contest is sponsored by the MIT Math Society. Prizes of \$15, \$10, and \$5 will be awarded.

were unable to advance. The winners scored first in the second quarter when Balacek passed from the 35 to the Phi Delt 20, with Pete Hohorst '57 receiving and continuing on to the 5, where he was stopped by Wait Ackerland '58. Balacek threw again to "Killer" Browand to the one and then hit Bell in the end zone for the score. In the third quarter Balacek again hit Bell, this time of the Phi Delt 30, and he went the rest of the way to close out the scoring. The Phi Delt's only other thrust in the game came in the second quarter when Ackerland took a pass from Ben Lightfoot '56 on the SAE 45 and went all the way to the 15. The SAE defense once again dug in and stopped the threat cold. The SAE offense threatened again in the waning moments of the game when Hohorst took a lateral from Balacek on a reverse play and went 30 yards to the Phi Delt 10, but the threat was stop-

ped there. Bill Calvert '56 and Dave Berg '58 were standouts on the SAE line and John Watts '56 turned in a great game at blocking back. Ackerland and Lightfoot led the Phi Delt attack.

In the second game the Phi Gams were unable to get any offense rolling without their injured tailback Tom Hoffman '56, and with three men out of their defensive line were unable to stop the Beta attack. The Betas again presented a precision team, playing with cleated sneakers and rubber teeth protectors. Bob MacDonald '56 and Ray Bowen '56 led the winners ground attack with MacDonald going around left end for six yards and the first score to end a 75-yard sustained drive following the opening kickoff. The following kickoff was fumbled on the two-yard line and on the first play the Phi Gams

(Continued on page 6)

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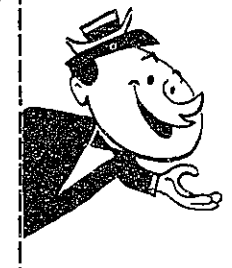
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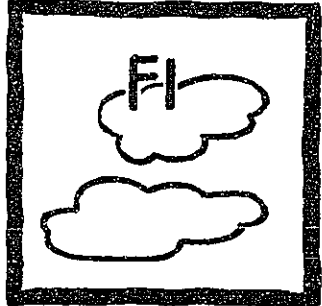
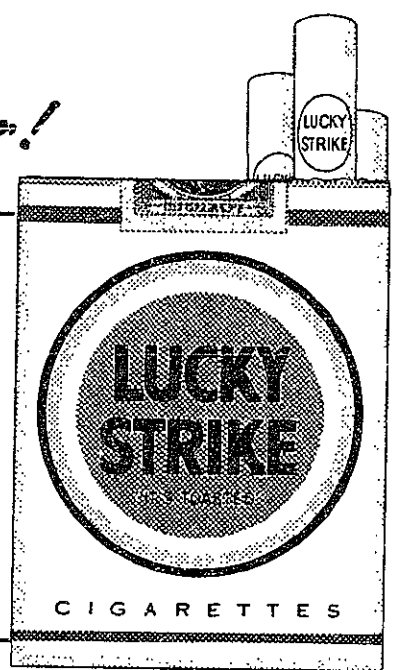
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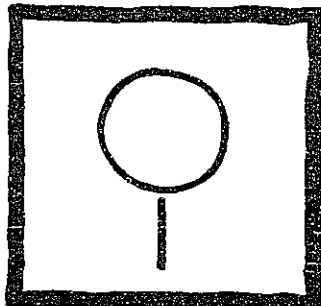
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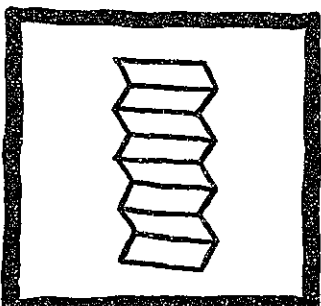
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# Suffolk Drubs Sloppy Quintet In Opener; Grapplers Bow To Wesleyan, 15-5; Late Trinity Rally Tops Engineers, 78-73 Vertin, Jones Score Tech Points

Opening the '55 - '56 basketball schedule with two games within three days, the Beaver varsity was dumped by Suffolk, 71 to 57 on Thursday, and was edged by a strong Trinity squad, 73 to 63 on Saturday, both games played in the cage.

Suffolk broke away fast in the beginning of the first quarter and was leading 23 to 14, at the end of the period. The Beavers then tightened up on defense and the point spread remained at around 10 points for the rest of the first half. The Engineers started the second half as if they were a new ball club with center and co-captain Dee Vergun '56 hitting every volley, and near the end of the first quarter the score was tightened up to 41 to 40 Suffolk. The visitors then broke out of their lapse to score three straight field goals and stay permanently out of reach of the hapless Beavers. The two biggest points which seemed to be bothering the Cardinal and Grey were first game nervousness and lack of confidence, as, with the exception of the third

quarter, their plays were not running smoothly and their shots were not sharp.

Trinity, one of the stronger teams on the Engineer schedule, was out-rushed and outplayed for the better part of the first half, and was saved only by a superior shooting percentage. Coach Scotty Whitelaw's basketballers took the first substantial lead of the game, when, with the score tied 22 to 22, Vergun hit with a jump from 10 feet, co-captain Bernie Benson '56 swished a long one hander, and Vergun hit again from the corner, to build up a 6-point lead. The co-captains extended the lead to 39 to 31 with successive baskets near the end of the half, but Salmon and 6', 8" center Godfrey hit for Trinity just before the buzzer: to make the score at the half 39 to 35. Mac Jordan '58 scored with a tip-in and a foul at the start of the second half to extend the lead to 7 points, but, after an exchange of baskets, Trinity started to gain and held a 9 point lead by the middle of the half. With the score

74 to 67 Trinity, guard Paul Repetto '58 swished a jump, Vergun tipped one in, and Benson sank a long set to bring the Beavers within a point of the Hilltoppers with about a minute to go, but McGowan and Salmon hit for Trinity to ice the game and make the final score 78 to 73. The Techmen outrebounded Trinity 2 to 1 in the first half, while the rebounding was fairly even in the second. Trinity had a better shooting percentage throughout the game. The Beavers worked well as a unit and shook the nervousness which plagued them in the Suffolk game.

The Freshmen won their second of the season over Trinity Frosh, 59 to 56. The point spread was never greater than 6 points. The Little Beavers worked a weave with accurate outside shooting very effectively against the visitor's 2-3 zone defense. Outstanding for the Frosh were Larry Jones, Bob Pulutcho, and Dick Briggs.

### BOX SCORES

MIT	SUFFOLK	
Vergun	27 Alley	11
Hallee	2 Doucette	11
Howard	11 Mellace	19
Benson	4 Moore	15
Repetto	2 Barbanti	2
Safirstein	2 Hunt	1
Jordan	4 White	11
Platzman	5 Grassl	1
		—
		57

MIT	TRINITY	
Matsuo	2 Salmon	6
Repetto	2 Vincent	8
Hallee	7 Nintas	11
Benson	16 McGowan	29
Jordan	7 Barton	16
Howard	5 Godfrey	8
Vergun	34	—
		—
		73

The Beaver wrestling team opened its season bowing to Wesleyan university, one of the top teams in New England, 15-5. The Engineers were better than this score would indicate, with close matches and good wrestling an evidence throughout the afternoon. Tony Vertin '57 and Harris Hyman '58 scored victories for the Techmen with Ken Jones '57 fighting to a draw.

Bob Boese '58 started off fast with a takedown in the first period and maintained his lead until the end of the second, when Winslow, Wesleyan's 123 pounder reversed. Picking up two more points at the start of the third period, he rode Boese out for the Cardinals' initial win. The 130-pound bout almost duplicated the first match at a much faster and more exciting pace, when Fricke decided MIT's Ray Ortler '58 by a 7-3 score. Ortler was off top form, having gone undefeated as a Freshman last year and having taken third in the New England.

Pete Magyar '57 fell to the Wesleyan captain, Jimmy Grammentine, runner up in last year's NEI's. Magyar looked good in the first period and escaped at the very start of the second but Grammentine proved too much for him and pinned him in 2:15 of the second round. Harris Hyman '58 edged Bob Fisher at 147 pounds. Tech's captain John Hirschi lost an extremely close decision to Ken Davies. Davies and Hirschi are potentially the two top men in the 157-pound class in New England, having finished second and third in the '55 championships. Hirschi has recently recovered from a leg injury and has had only one week of intensive practice.

George Davies, twin brother of Ken, and another of the league's better grapplers, pinned Mike Brenner '57 in 5:45. Former heavyweight Tony Vertin, moved down this year

to the 177's, edged Don Fuhrmann in the best match of the afternoon. The ref called a fall on Vertin at the end of the first period. Unfortunately, the call was obscured by the cheering crowd. Tony rallied to make up the deficit plus an extra point to win in the last period. Heavyweight Ken Jones '57 fell behind in the first period but finally settled down, coming back to split with his Wesleyan opponent, Dunn.

Coaches Maloney and Haddad were disappointed but not thoroughly displeased with the team's performance.

Wesleyan is one of the best teams in the league and fielded good men at every weight. The Beavers should look far better later on in the season when they are in top condition.

Doc Stella's freshmen threw a real scare into Wesleyan when they won their first four matches, three by falls. The Cardinals rallied with three pins of their own and picked up a forfeit in the last match to edge the MIT '59'ers by a 16-14 score. Traditionally weak, this year the freshmen have their best team in years and should improve in subsequent meets.

Joe Morse, who had never wrestled before coming to the Institute, led off with a fall in the second period. Damon Cumming repeated the trick and was followed by a decision by Bob Blum over the Wesleyan captain. John Linderman beat one of their better men to secure a fall in the last period. Losing the next three by falls, the Engineers could field no heavyweight, giving Wesleyan the edge they needed to win.

## Icemen Lose, 12-4 To Dartmouth Six

The Beaver hockey team began a fifteen game schedule with a 12-4 defeat at the hands of a perennially strong Dartmouth sextet. The Engineers were outclassed during most of the contest but put up a scrappy fight and outskated and outplayed the Big Green during the latter part of the second period.

The Indians scored three times in the opening period and led 3-0 at the beginning of the second period. Dartmouth completely dominated the puck and scored four more times in the first eight minutes of the period. The Green's first line of Oakes, Toneson and Spratt set up several fine plays with good passing. Jim Coult '56, the Beaver's defensive stalwart, received a shoulder injury which put him out for the rest of the game.

The Engineers began to fight back and outskated Dartmouth for the rest of the period. Jim Bachman '56 set up the first Tech goal as he skated through the Indian defense and passed to Paul Skala '58 who scored at 14:27. Bev Goodison '57 scored his first of two goals at 18:57 assisted by Hank Durivage '57. This made the score 7-2 at the end of period two.

The Big Green scored at 6:10 and 9:57 of the last period to widen the gap to 2-9. Goodison lifted in the puck on a good pass from Gus Schwartz '56. The Beavers continued to fight back as John Sullivan '56 slapped in a Schwartz rebound at 13:50. The Indian's Spratt beat the goalie twice in the last seven minutes to complete a hat trick. His score at 17:57 made the final count 12-4.

### Goodison, Aitken Standout

The Green's Captain Toneson was the top scorer with two goals and two assists. Sandy Aitken '56, the Beavers' goalie, had a real workout with 41 saves while the visitors' goalie stopped 14. Bev Goodison, 1st line wing played a good offensive game and, on defense, continually harassed the Indian line.

The Beavers play two games this week; Friday night against Northeastern at 7:30 p.m. and Saturday afternoon at 3:00 p.m. both at the Tech rink.

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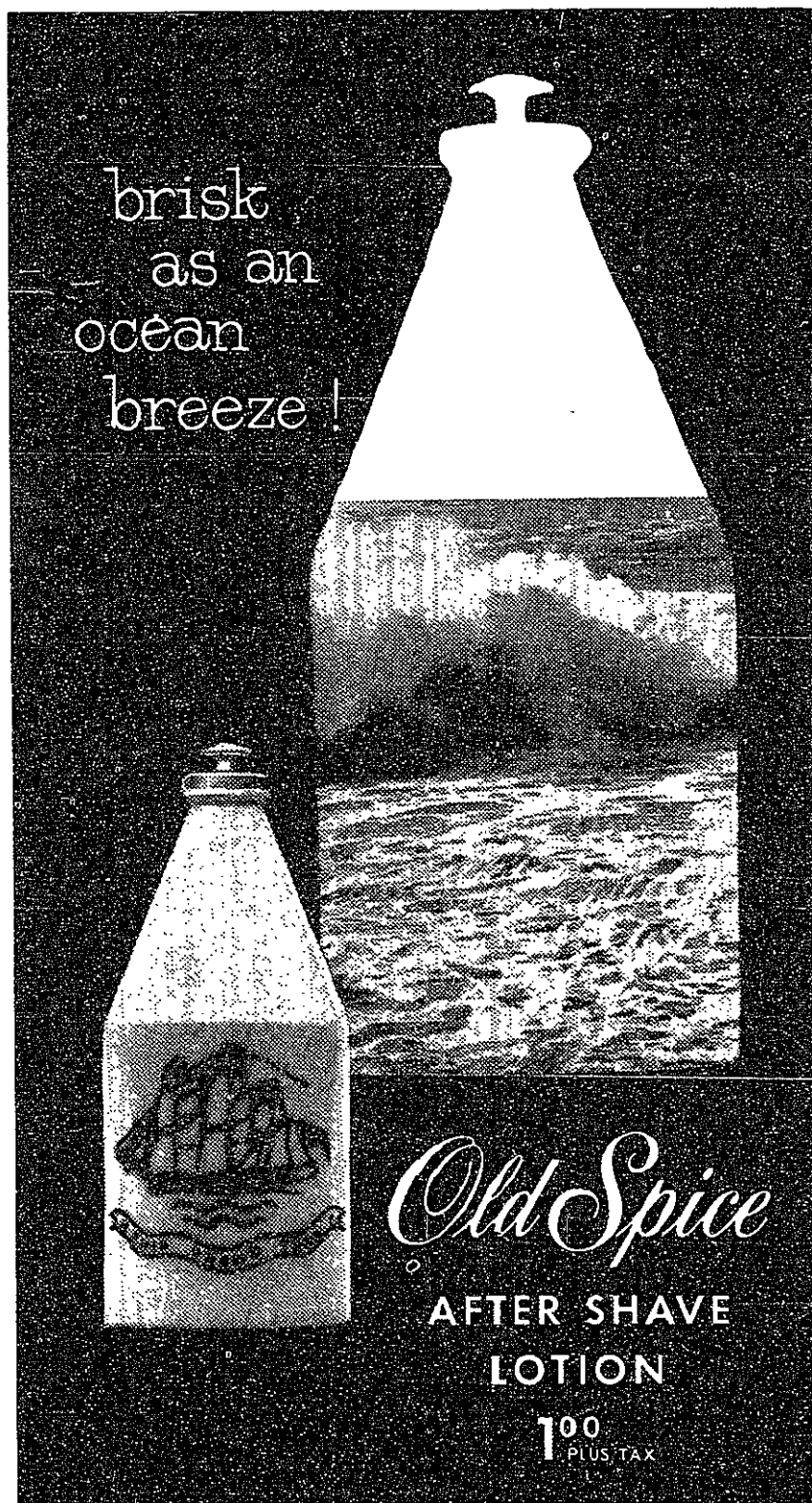
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**Computer Seminar**

(Continued from page 1)  
 tal computation on leave from MIT.  
 Dean Arden, research staff in digital computation, MIT.  
 Melvin Black, consulting specialist, Price Waterhouse & Company.  
 Edward Fitzgerald, Graduate School of Industrial Management, MIT.  
 James Gibbons, director of electronics and mechanization, Price Waterhouse & Company.  
 Frank M. Verzuh, director of the Office of Statistical Services, MIT.  
 Harvey Wagner, Graduate School of Industrial Management, MIT.  
 Thomson M. Whitin, assistant professor, School of Industrial Management, MIT.

Commenting on the seminar, Professor Gregory notes that "the Massachusetts Institute of Technology has for many years played a leading role in the development of high-speed computers and processing systems. More recently, the School of Industrial Management has undertaken active studies of how these new techniques may be most effectively used for management and how they will change business operations."

The five-day conference will present some of the results of the School's studies in the field. A number of computers at MIT will be demonstrated during the seminar.

Further information and registration forms may be obtained from Professor Gregory at the School of Industrial Management, Massachusetts Institute of Technology, Cambridge 39, Massachusetts.

**Bush Leaguer**

(Continued from page 4)  
 fumbled again in the end zone and the score went to 9-0. Early in the second quarter the Phi Gams were penalized to their own two-yard line and a tag in the end zone gave SAE an 11-0 lead. Bowen closed out the first half with a pass to Dick McLaughlin '57 for the final six points and the ball game. The Phi Gam defense toughened in the second half to hold the SAE attack scoreless but never could get a drive going and the game ended 17-0. MacDonald and Bowen both played excellent offensive games while the entire defensive team did a great job. Chuck Ingraham '58, Fred Culick '56, and Bruce Blanchard '57 played outstanding games for the losers.

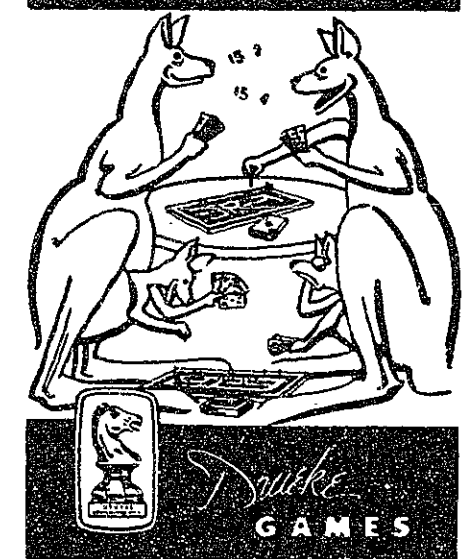
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Engineering	9 a.m.-9 p.m.	9 a.m.-6 p.m.	1-6 p.m.
(Aeronautics)	9 a.m.-5 p.m.	Closed	Closed
Humanities	9 a.m.-10:50 p.m.	9 a.m.-6 p.m.	1-9 p.m.
(Reserve Book Room)	9 a.m.-10:50 p.m.	9 a.m.-6 p.m.	1-9 p.m.
Music	9 a.m.-10:50 p.m.	9 a.m.-6 p.m.	1-9 p.m.
Rotch	9 a.m.-9 p.m.	9 a.m.-12 N.	Closed
Science	8 a.m.-10:50 p.m.	8 a.m.-10:50 p.m.	1-9 p.m.

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