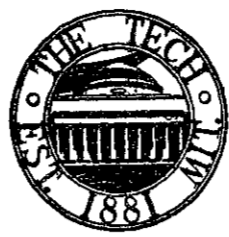


# The Tech



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Vol. LXVII, No. 33

CAMBRIDGE, MASS., TUESDAY, DECEMBER 16, 1947

PRICE FIVE CENTS

## Library Research Center To Be Established Here By Carnegie Corporation

### Scientific Methods To Aid Learning Will Be Studied

Under a grant of \$100,000 from the Carnegie Corporation of New York a new center for library research and scientific aids to learning will be established at the Institute. Dr. Karl T. Compton, president of the Institute, announced last Saturday that the main purpose of the new center will be to study scientific methods of collecting, organizing, and communicating knowledge.

The new center, conceived as a national and international resource in its field, will concern itself with experimentation on printing, documentary reproduction, visual education, sound recording and mechanical selection systems. It will also serve as a school for training technicians, librarians, and others in the theory and practices of scientific education.

#### New Mediums for Expressing Thought

In a joint statement issued by John E. Burchard, Director of Libraries, and Dr. Vernon D. Tate, Librarian, it was stated that the libraries of Technology should and could make a contribution to world scholarship equal to the contribution made by the Institute classrooms and laboratories. "The rapid increase in knowledge in all fields of human endeavor requires new concepts of the organization and use of information. Books can no longer be regarded as the only medium for the storage of knowledge. There are very good reasons for believing that, except for great collections of literature, books will eventually be supplanted by more efficient mediums for accumulating and disseminating knowledge."

The application of well developed principles of television, microphotography, and motion pictures to library research problems presents a very complex problem for the

(Continued on Page 2)

## Shapley Speaks To MIT Group

### Famous Astronomer Talks on "Cooperation"

"Science must be given a hand in determining the peaceful cooperation of nations, as it was given the major role of winning the war," stated Dr. Harlow Shapley at a lecture last Thursday evening, December 11, under the sponsorship of the Lecture Series Committee.

Dr. Shapley, Director of the Harvard Observatory, holder of Pope Pius' "Distinguished Service to Mankind" prize, and a past president of the Academy of Arts and Science, spoke in behalf of achieving world scientific cooperation through the exchange of ideas and understanding to control the real enemies of the world: poverty, disease, ignorance, and suspicion.

#### Science Out of Peace

Dr. Shapley pointed out that while science had won the war, it was being excluded from the making of the peace. He informed the audience that of the 42 groups invited to go to San Francisco to help formulate the United Nations' charter not one represented a group of scientists or engineers even though they will be the ones who will be called upon to produce the materials for bringing prosperity to the world. He declared that scientists are taught to organize and plan, yet are not consulted about the peace in an atomic age. "Pure science is a natural amalgamation of good international relations," stated the former U.N. delegate to U.N.E.S.C.O. Pointing out how scientists of different nations maintained cooperation, he mentioned the exchange of astronomical information, books, and weather reports as examples.

The noted scientist declared our preparedness should be more in the way of spiritual and educational training than in compulsory mili-

(Continued on Page 2)

## Compton Talks On Education To Alumni Club

### States Numbers, Class Work Sometimes Halt Real Science Genius

Speaking before the Alumni Club of New York, recently, Dr. Karl T. Compton stated that "the pressure of numbers and tradition of daily class assignments is inhibiting the development of real genius."

Mentioning the fact that a major portion of the fundamental scientific discoveries and theories have come, not from our continent, but from Europe, Dr. Compton said we must remember "that postgraduate work and advanced scientific research are relatively new in America."

#### Mass Education at College Level

Speaking of higher education in this country, Dr. Compton pointed out the large number of students enrolled in institutions of higher learning in our country as compared to others. "In the United States we are carrying mass education into the college level to an extraordinarily high degree."

Although numerous colleges, particularly state universities, must meet the public demand for mass education, schools that are privately owned are able to "attract students who are willing and able to make sacrifices necessary to attend this type of institution as an investment for their future careers."

#### Specialization Required

Because of the rapid advance of scientific knowledge, and the numerous practical applications, an ever increasing degree of specialization in all the branches of technology is required.

Another important aspect of a technical education is "the development of our students to be broad-gauge citizens of the world as well as professionally competent scientists, engineers or architects." Other things besides technical studies are also considered important in the creation of a good engineer by Dr. Compton. "The student's extracurricular activities offer a rich opportunity for the development of a sense of responsibility, a technique of management and a spirit of team play."

#### Non-Technical Subjects Important

Subjects such as history, economics, social sciences, music and fine arts, he claimed, are all parts of a "unified program, aimed at developing a man who will be a competent operator in some field of specialization." The faculty is trying to create a program which

(Continued on Page 4)

## Cochrane to Speak Before Prop Clubs

Vice-Admiral Edward L. Cochrane, formerly Chief of Bureau of Ships of the United States Navy, and present head of the Department of Naval Architecture and Marine Engineering, is to speak Thursday evening before a joint meeting at the Campus Room of the Graduate House of the Propeller Clubs of the Port of Boston and Port of Technology.

Professor Cochrane, who received his M.S. degree from the Institute in 1920, has chosen for his subject, "M.I.T. and American Sea Power." Approximately 150 people are expected to attend the dinner meeting, reported Joseph M. Rault, '48, president of the Technology Club and master of ceremonies for the dinner.

## Expect 35,000 Guests Will Attend Open House At Institute on May 1

### 2 Students Win Rhodes' Awards

#### Watson and Macdonald To Study at Oxford

Two students at Technology have been awarded Rhodes Scholarships for study at Oxford University, England. James McDonald, enrolled in Course VIII, and Harry A. Watson who is studying naval electronics, were among the six scholarship winners from the New England area.

MacDonald was graduated from Williams College where he was awarded a B.A. and an S.B. degree. He is a recipient of an S.M. degree from the Institute and is now engaged in study for a Ph.D. McDonald was an instructor at the M.I.T. Army and Navy Radar School during the war.

#### Naval Ensign

Watson is an ensign in the regular Navy and is now working for his B.S. degree. At the Naval Academy he stood fourth in a class of 1049, was a battalion commander, secretary-treasurer of his class and editor of "The Log."

During the war Watson served on a minesweeper in Asiatic waters. He plans to study philosophy economics, and politics at Oxford.

The successful candidates start a two-year scholarship at Oxford in October, 1948, with a third year dependent on the students' record. The candidates apply for the scholarships either in the state of their residence or the state in which they are attending college.

#### Stipend of \$1600

The Rhodes awards, provided under terms of the will of Cecil Rhodes, carry an annual stipend of \$1600, increased this year by an extra \$400 because of increased living costs.

Last year Gordon Raisbeck, who was a graduate student in Mathematics, won one of the scholarships and is now studying at Oxford.

## Traditional Event Last Held in 1940 To Be Reinstated

Upwards of 35,000 guests are expected to visit the Institute on Saturday, May 1, when Technology will hold its first post-war Open House. According to Kenneth S. Brock, '48, co-chairman of the Open House Committee, this "tremendous public relations project" will see Technology open its doors to the community and to students' families and friends to show through exhibits and demonstrations what it is trying to do and how it is trying to do it.

Jointly sponsored by the Administration and the Institute Committee, the Open House Committee was formally reestablished this year as a subcommittee of the Institute Committee by the election of William R. Zimmerman, '48, and Brock who were elected co-chairmen by the Institute at its meeting on Thursday, November 30.

Zimmerman stated, "It will not be an Open House in the sense of merely opening the doors and letting people in; but the 1948 Open House will have the more basic purpose of fostering community good will and portraying Technology in its role as a builder of men who will assume positions of leadership and social responsibility tomorrow."

Before the war an organization of nearly 1000 students and faculty members distributed 25,000 invitations, mailed 400 posters, established exhibits by each department and undergraduate activity, conducted previews of streamlined trains in the yards behind Vassar Street, and provided special events in the form of concerts, athletic concerts, and receptions by faculty members.

#### MORE EXTENSIVE PROGRAM

The 1948 Open House will have a similar program, although there will be increased emphasis on the

(Continued on Page 4)

## Hoopsters Defeat New Hampshire; Freeze Last Minute Wildcat Surge

Freezing the ball for the last minute and one-half of play the Tech hoopsters held off a late New Hampshire scoring spree to win their third victory of the season 52-50 at Durham, New Hampshire, on Friday, December 12.

The fast Beaver offense clicked time and again to give Tech a comfortable lead until the final minutes of play when the Wildcats threatened for the first time. Captain Doug Watson and Ozzie Honkalehto led the tricky ball handling for the victors and completely outfoxed the Blue and White's height. Jim Madden scored 10, while Bob Deutsch and Honkalehto each put in nine pointers to give Tech the edge.

Coach Ted Heuchling now has seven tried and proven men to depend on for tomorrow's game with Brown at Providence. At the beginning of the season Tech could boast four first-string players from last year's squad and a host of inexperienced men.

Jim Madden at forward, now a junior, Lou Morton at center, a sophomore, and Bob Deutsch and Doug Watson, both seniors, at

guards, returned from last year's team with its record of six wins and six losses.

With five games by the boards Heuchling now has three new prospects, all sophomores who have developed into equal contenders for the starting line-up along with last year's veterans.

Jack Corrie was used early in the season to take the place of Haddox and has plenty of the fight and drive to stay with the speed which Tech must depend upon to overcome its lack of height. Ozzie Honkalehto has more recently shown his sleight of hand in ball play and even confused his own men in his first starts with the team. He was placed on the starting team Friday at New Hampshire. The last sophomore is Ken Harms who has provided height and fine defensive play to provide a strong substitute for either Morton or Madden.

Despite the lack of height in the team as a whole Heuchling has seven dependable operators, five of whom will still be eligible to play with the team for the next two seasons.

## Hockey Team Tangles with B.U. Tonight at 8:00 p.m. at the Arena

Technology is within shooting distance of first place in the New England Intercollegiate Hockey League if it captures its games tomorrow night and next Monday against Boston University and Boston College, respectively.

Chances are rated as poor. The first-place berth, however, is not the main aim of the team, as only one-third of the season will have been completed.

It was announced this week that the NEIHL champion will be decided next March by a playoff between the first four teams in the league at the end of the regular season. The champion will then represent the league in the "Little Stanley Cup" series to be played at Colorado Spring to decide the national champions.

To get in the playoffs and win is the team's goal and no amount of pessimistic realism can curb its ambitious hopes. Its chance for a position in the playoffs does look very bright. B.U. and B.C. are sure bets, and Tech seems to be the best of the other 10 teams which make up the complement of the league. The Devens team which looked

good in losing to Tech in the last 15 seconds of play last Tuesday should be one of the best. Northeastern was another team that was considered powerful in pre-season reckoning. But the ineligibility of its captain and another one of their star forwards should bring them down to the comparative level of last year when they were beaten twice by the Beavers.

B.U.'s 8-2 drubbing of Harvard, which had previously beaten B.C. this week, also puts Tech in a better light. The Beavers scored more goals against B.U. than all the Terriers' rivals combined. They also played B.U. to a standstill in the last period of their game and without Don Lea or Ed Tompson, two of their biggest stars.

Both Lea and Thompson are expected to return this week. In their absence the scoring load has been carried by Chuck Tenney with four goals and two assists; Jerry Walworth with two goals and four assists; Chuck Nolan with three goals; Tom Tsotsi with two goals and one assist; and Ted Madden with three assists.

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# The Tech

Vol. LXVII

TUESDAY, DECEMBER 16, 1947

No. 33

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## Library

(Continued from Page 1)

new center.

### Center to Study Scholarship Aids

According to the statement by John E. Burchard and Dr. Tate, "Five fields offer particularly attractive possibilities for a program of research in the new center for scientific aids to learnings. These include printing and all phases of duplication; documentary reproduction including microphotography, facsimile, and related techniques; sound recording, concern-

ing the full exploitation of the sense of hearing; and mechanical selection, dealing with assembling, arranging, and supplying data of all types.

Research in sound recording, acoustics, and phonetics are under way in the acoustics laboratory, and in the Departments of Languages, English, and History. Methods of selection by mechanical means are being studied in the Department of Electrical Engineering, and possible applications of this field are under surveillance in the Department of Chemistry."

## Abolition Movement Reappears; Civil Strife Believed Inevitable

A new organization, the National Society for the Abolition of Massachusetts (N.S.A.M.), is to be started at the Institute, it was announced this week. Founders of this chapter, whose purpose is to "peacefully disseminate propaganda awakening people to the evil that is Massachusetts," include Herbert Limmer, Daniel McGuinness, and Sander Rubin, all sophomores.

The first meeting was held last Wednesday, and there is to be another this Wednesday, December 17, at 10:00 p.m. in Ware Lounge. Officers announced that everyone is welcome, membership being open to any person having resided in, or passed through, over, or under Massachusetts.

At present the society has several plans for accomplishing its purpose. Among these are cutting the State loose from the rest of the Union and letting it sink into the Atlantic, or having it declared null and void by the Supreme Court, because it should never have started in the first place. However, since it was pointed out that the absence of Massachusetts would make a port at Albany, thus destroying the Port of New York, it was suggested that a three-foot wide buffer state be left at the western end of the state. Since the new state would be the end of Massachusetts, it would be called Ts.

### Will Publish Letter

To accomplish its ideas, the N.S.A.M. is going to publish a monthly news-letter, probably to be called "The Abolitionist," which

may take advertising from the Chambers of Commerce of the 47 other states. Also, travel folders are to be distributed discouraging vacations in Massachusetts.

The chapter at the Institute, whose membership now numbers thirteen, hopes to obtain a charter from the Institute Committee as a Class B activity. Eventually, the Society plans to get a corporation charter from the Commonwealth of Massachusetts.

## Tamiment Institute Offers \$1000 Prize

A first prize of \$1000, and 13 other prizes, will be distributed to college students by the Tamiment Social and Economic Institute of New York, for the best 5000 to 6000 word essay on "An American Program for World Peace in the Present Crisis."

The contest is open to all undergraduate students, and entry blanks will be sent on request. Requests for information and typed manuscripts should be sent to Tamiment Institute Contest, 7 East 15th Street, New York 3, New York. Manuscripts, accompanied by the name, address, and college of the student should be entered not later than April 23, 1948.

The purpose of the contest is "to stimulate college students to constructive thought on matters of social and economic importance.

## Reviews & Previews

Jordan Hall was fairly well filled last Saturday evening for the Combined Musical Clubs' annual presentation of Handel's oratorio "The Messiah." Henry Jackson Warren conducted, and the soloists were Margareta Backer, soprano, Gladys Raczynski, contralto, Robert Giljohann, tenor, and Major Hollis Dakin, bass.

The work as a whole showed improvement over last year's performance, although there were many rough spots and a certain amount of fuzzy coordination. The glee clubs sang competently, doing a fine job in the choruses "For Unto Us a Child Is Born," "Lift up your heads, O Ye Gates," and "Worthy Is the Lamb That Was Slain." Most of their singing, however, seemed to lack the necessary fervor to make the oratorio convincing. Unfortunately, the Women's Glee Club was overshadowed by the Men's, which was superior both numerically and vocally.

For the most part, the soloists possess very pleasing voices, but they shared the tendency of the chorus to sound uninspired. The most popular arias were Miss Backer's "I Know My Redeemer Liveth" and Major Dakin's "Why Do the Nations So Furiously Rage Together."

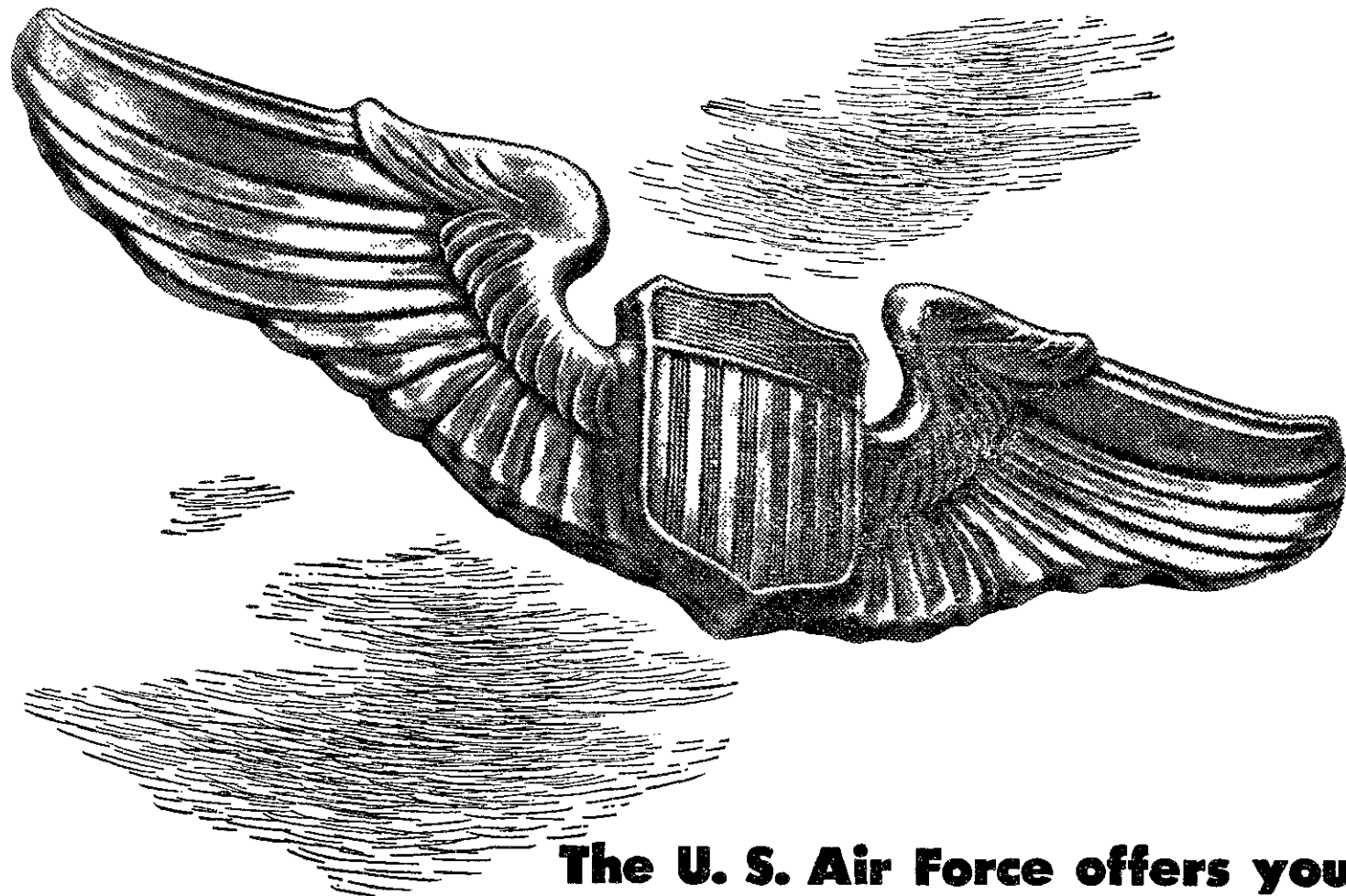
The orchestral accompaniment demonstrated some of the great improvement which the M.I.T. Symphony has been making, but the group was clearly at a disadvantage without the leadership of its regular conductor, Professor Klaus Liepmann. In many places the coordination between orchestra and chorus was nearly non-existent. The string section exhibited a fine tonal quality, notably in the "Pastoral Symphony," which proceeded smoothly and lyrically. Coordination between the orchestra and the soloists was excellent in the bass aria "Why Do the Nations So Furiously Rage Together," but it reached a low point in the tenor recitative and aria immediately following.

Inevitably, the entire performance will suffer by comparison with the version given at Rindge Tech the previous Sunday. It is not possible, however, to make a fair critical comparison, since the performances had different soloists, women's choruses, and conductors. Nevertheless, the superior quality of the first performance should become the goal of the Musical Clubs for the future.

## Shapley

(Continued from Page 1)

tary training, such as is proposed today, and proposed that to become world citizens we must assume a supplementary loyalty together with the peoples of every nation to bring about peace and end the ideas of atomic bombs, which will probably be the weapons of the next war, if it is allowed to occur.



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## Wesleyan Sinks M.I.T. Tankmen By 49-26 Score

**Pelletier, Relay Team Score Only Victories; Frosh Beat Dean 41-23**

Wesleyan's swimmers churned to a 49-26 victory over the Technology mermen at Middletown, Conn., last Saturday in the third meet of the season for the Engineers and Wesleyan's opener. Tech garnered a first place in two of the events, while the Cardinals swept to victory in the seven remaining divisions.

Bob Pelletier, a consistent winner from last year's freshmen aggregation, racked up Tech's only first place in individual events. Navigating the 200 yards in two minutes, 40.5 seconds Pelletier eased into first position over Forbes, of Wesleyan.

Coming through for the second Technology triumph of the day, the 300-yard medley relay team defeated the Wesleyan quartet with a time of three minutes, 13.7 seconds.

In addition to the two first places, the Engineers finished second in three events. Jim Leonard copped the second spot in the 50-yard freestyle for the visiting team, with Bob Edgar taking third in the same race. In the 150-yard backstroke Tech's Dick Pitler garnered second, while teammate Ben Dann hit the finish in third position.

Second and third place in the dives went to Technology, as Bob Ellis tallied a 70.9 score and Lou Lehman a 62.5 total. Third places for the Engineers were also registered by Carl Mellin in the 220-yard freestyle, John Searle in the 100-yard swim, and Bill Hurlbut in the 440-yard distance event.

Tech's freshman swimmers romped to a 41-23 victory over the Dean Academy natators at Alumni Pool last Saturday. The frosh piled up first places in every event with the exception of the two relays and 100-yard freestyle.

Tech's winners against Dean were Kelly 50-yard freestyle; Schwartzman 100-yard breast stroke; Compton, 200-yard freestyle; Jones 100-yard backstroke; and Hart diving.

### Sports Schedule

Tuesday, December 16—Hockey vs Boston University at the Arena 7:30 p.m.

Wednesday, December 17—Basketball vs Brown at Providence, 8:00 p.m.  
—Swimming vs Harvard at Harvard, 7:30 p.m.

Monday, December 22—Hockey vs Boston College at the Arena, 7:30 p.m.

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## Activity Briefs

### LECTURE SERIES COMMITTEE

The Rev. Dr. Harold John Ockenga, pastor of the Park Street Congregational Church, will speak at the Institute on Thursday, December 18, in Room 3-370 at 5:15 p.m. Rev. Ockenga is jointly sponsored by the Lecture Series Committee and the Technology Christian Association, and he has chosen for the subject of his lecture, "The Basic for Orthodox Belief."

### 5:15 CLUB

The 5:15 Club will hold an informal Christmas dance, for members only, in their clubroom in the basement of Walker Memorial on Saturday evening, December 20, from 8:30 p.m. until 1:00 a.m.

### CATHOLIC CLUB

The Catholic Club's Annual Christmas Party for members and their dates will be held Friday, December 19, at the Brightelmstone Club in Allston.

### A.S.M.E.

The second in the series of lectures on "Choosing Your Field," sponsored by the American Society of Mechanical Engineers, will be presented tomorrow afternoon at 5:00 p.m. in Room 1-190. The speakers this week are Professor A. H. Shapiro, who will talk on "Heat," and Professor W. M. Murray, who will discuss "Stress Analysis and Photoelasticity."

## Robert E. Booth Is New Librarian

Robert E. Booth, formerly reference librarian of the Peabody Institute Library in Baltimore, has been appointed Associate Librarian of the Massachusetts Institute of Technology, John E. Burchard, Director of Libraries, announced recently.

In his new post Mr. Booth will be associated with Dr. Vernon D. Tate who was appointed Librarian of the Institute last July. He will be concerned primarily with administrative library service, including the operations of processing, book selection, and general supervision of reference, circulation and allied fields. Part of his time will be devoted to a survey of existing collections in preparation for moving the Institute's library to the new Hayden Library when it is built.

His experience in the newer technical phases of library operation includes microphotography, which is expected to be valuable in the shaping of the Institute's program in this field. Mr. Booth was educated at Wayne University, Columbia University, and the University of Michigan.

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# EXAMINATION SCHEDULE

SATURDAY, JANUARY 24 9 A.M.	MONDAY, JANUARY 26 9 A.M.	TUESDAY, JANUARY 27 1:30 P.M.	THURSDAY, JANUARY 29 9 A.M.
1.70 Hyd. & Flood Cont. 1.701 Hyd. & Flood Cont. 2.04 Strength of Mat. 2.07 Dynamics 2.236 Fluid Mechanics 2.79 Int. Comb. Eng. Elem. 5.01 Gen. Chemistry 5.001 Phys. Chemistry 6.30 Prin. Elec. Com. 6.315 Air. Elec. Equip. 6.021 Micro. Circ. & Ant. 7.80 Biochemistry 8.311 Atomic Structure 8.463 Int. to Qu. Th. 10.45 Distil. & Absorp. 13.54 Marine Eng. 13.56 Marine Eng. 13.73 Mech. Vibrations 16.051 Aero. Comp. Fluids 17.401 Adv. Job Manage. 19.01 Desc. Meteorol. 19.83 Oceanography 20.51 Food Tech., Adv. M442 Diff. Geom., Elem. Special Examinations	1.40 Structures 1.401 Structures 1.64 Fluid Mechanics 2.06 Dynamics 2.062 Strength of Mat. & Dynamics 2.211 Adv. Mechanics 6.251 Wire Com., Prin. 6.314 Radio Nav. Syst. 6.631 Eng. Electronics 8.01 Physics 8.21 Phys. Electronics 10.17 Ind. Chemistry 10.25 Ind. Chemistry 16.10 App. Aerodynamics 17.41 Bldg. Management 17.741 Eng. Prop. of Plas. 19.60 Thermo. of Atmos. E111 Economic Prin. M341 Mod. Stat. Theory M421 Th. Hydromech. Special Examinations	1.731 Water Pow. Eng. Adv. 1.92 Eng. Construction 2.43 Heat Eng. 2.58 Mech. Eng. Prac. 2.733 Cont. Prob. in Mech. 3.09 Metal. Calcul. 5.071 At. & Mole. Struct. 6.322 Prin. Elec. Com. 6.623 Pulse Circ., Prin. 8.03 Physics 8.03 Physics (VI, VIII, XVIII) 8.461 Int. to Th. Phys. 10.32 Chem. Eng. 10.41 Finance 18.105 App. Aerodyn. 17.771 Cement Materials 19.43 Syn. Meteorology 19.62 Dyn. Meteorology 20.11 Tech. Food Prod. Ec85 Land Economics M571 Diff. Equations Special Examinations	1.62 Fluid Mechanics 2.252 Fluid Mechanics 3.12T Metals Process. 5.53 Org. Chem., Adv. 5.61 Phys. Chemistry 5.62 Phys. Chemistry 6.02 Prin. Elec. Eng. 6.605 Servomechanisms 13.34 Ship Construct. 17.531 Adv. Reinf. Con. Des. M351 Adv. Calc. for Eng. M77 Vector Analysis Special Examinations
SATURDAY, JANUARY 24 1:30 P.M.	MONDAY, JANUARY 26 1:30 P.M.	WEDNESDAY, JANUARY 28 9 A.M.	THURSDAY, JANUARY 29 1:30 P.M.
1.571 Stat. Ind. Struct. 1.63 Fluid Mechanics 2.046 Strength of Mat. 2.081 Strength of Mat. 2.44 Heat Eng. 3.50 X-Ray Metallurgy 5.51 Adv. Org. Chem. 5.75 Chem. Thermodyn. 6.03 Prin. Elec. Eng. 6.291 Prin. of Radar 6.294 Radar, Prin. & App. 6.521 A-c Mach., Adv. 6.563 Synth. Opt. Lin. Sys. 8.161 Optics 8.462 Int. to Th. Phys. 10.15 Ind. Chemistry 16.13 Air. Stab. & Cont. 16.57 Rockets 20.01 Tech. & Chem. Food Supplies Ec37 Adv. Statistics E21 U. S. in World His. E21 Growth of Dem. Thought E21 U. S. in World His. (Foreign Section) Special Examinations	1.35 Soil Mechanics & Found. 1.351 Soil Mechanics & Found. Eng. 2.062 Dynamics 3.12 Metallurgy 5.43 Org. Chemistry 5.77 Kinetic Theory 6.04 Prin. Elec. Eng. 6.19 Ind. Electronics 6.311 Eng. Com., Prin. 6.312 Elec. Com., Prin. 6.313 Ship. Rad. Com. Eq. 6.47 App. Elec. in Ind. 6.502 Adv. Net. Theory 6.609 Des. Auto. Control 10.31 Chem. Eng. 15.81 Law of Contracts 16.21 Structures 19.61 Dynamic Meteor. M21 Calculus M22 Diff. Equations M32 Elem. Statistics Special Examinations	2.37 Test. Mat. Lab. 2.491 Flow of Compress. Fluids 2.792 Int. Comb. Eng. 3.16 Powder Metallurgy 3.32 Phys. Metallurgy 5.42 Org. Chemistry 5.42 Org. Chemistry 6.003 Prin. Elec. Eng. 6.01 Prin. Elec. Eng. 6.222 Pow. Syst. Meas. 6.292 Radar, Prin. & App. 6.561 Network Th., Adv. 8.012 Physics 10.63 Ind. Chemistry 13.01 Naval Arch. 13.16 Th. Warship Des. 15.50 Accounting 16.20 Structures 16.25 Air. Struct., Adv. 19.70 Elem. Phys. of At. E11 Eng. Composition E11X Eng. Comp. (Exp. Section) M331 Math. Th. of Stat. M731 Mechanics Special Examinations	1.271 Transport. Eng. 1.75 Water Sup. & Pur. 3.31 Phys. Metallurgy 6.213 Ind. App. of Servo. 6.321 Prin. Elec. Com. 7.19 Gen. Physiology 8.44 Int. to Nuc. Eng. 10.70 Combustion, Prin. 16.15 Auto. Cont. of Air. 20.41 Bacteriology Ec35 Elem. Statistics M12 Calculus M31 Diff. Equations M36 Adv. Calculus M591 Part. Diff. Equa. Special Examinations
SATURDAY, JANUARY 24 1:30 P.M.	MONDAY, JANUARY 26 1:30 P.M.	WEDNESDAY, JANUARY 28 1:30 P.M.	FRIDAY, JANUARY 30 9 A.M.
1.361 Soil Mechanics 2.40 Heat Eng. 2.401 Heat Eng. 2.402 Heat Eng. 2.43 Heat Eng. 2.42 Heat Eng. 3.20 Met. Thermodyn. 6.16 Electricity 6.36 Sonar, Prin. & App. 6.606 Servomechanisms 7.14 Comp. Anatomy 8.061 Int. Physics 8.062 Int. Physics 10.28 Chem. Eng. 10.29 Chem. Eng. M11 Calculus M791 Th. & App. Elast. Special Examinations	1.41 Structures 2.00 Statics 2.011 Statics & Dyn. 2.451 Eng. Thermo., Adv. 2.791 Int. Comb. Eng. 3.33 Foundry Eng. 6.212 App. Elec. to Ind. 6.551 Trans. in Lin. Syst. 7.01 Gen. Biology 8.13 Vib. & Sound 10.21 Ind. Chemistry 15.51 Ind. Accounting 19.14 Long Range Weather Forecast M37 Adv. Calculus M331 Analysis Special Examinations	2.01 Dynamics 2.213 Gas Turbines 6.00 Prin. Elec. Eng. 6.511 Elec. Pow. Circ. 8.034 Physics M351 Th. of Functions M62 Mod. Algebra Special Examinations	

Copies of the Examination Schedule will be available in the Information Office, Room 7-111, about Dec. 31. Students having conflicts should obtain copies when issued and follow directions.

## New Haven R.R. Increases Boston to N. Y. Fare 15%

The New York, New Haven and Hartford Railroad yesterday increased its fares to New York and other points along the line by 15%, thus raising the cost of a one-way ticket to New York from \$5.75 to \$6.61.

This increase was authorized by the Interstate Commerce Commission in view of the fact that the New Haven had not materially benefited from the 10% increase in freight charges allowed the country's railroads, as it is mainly a passenger line. The increase will go towards meeting increased wages and cost of materials and supplies.

## Hockey

Tenney was the boy who scored two goals against B.U. and the winning goal against Devens in that thriller. Nolan, one of last year's first stringers, almost failed to come out for hockey this year.

Combined with Captain Jack Clifford, Bud Willard Tsotsi, and Charlie Seifert, Madden was one of the chief factors in holding down the Tufts and Devens scoring. Of course, Goalie Jack Adams has looked as good as ever in front of the nets and seems to have a good chance to make one of the league All-Star teams.

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## Tech Debaters Gain Unanimous Decision

The Technology debating team defeated the Brown University team by unanimous decision of the three judges last Friday night at Brown. William C. Bibb, '50, and Leonard H. Caro, '50, debated the affirmative side of the question: "Resolved that all Federal Employees should be subject to discharge by a Federal Security Board if their political affiliations constitute a threat against the interests of the United States."

The debate, which was only Brown's third defeat in 27 starts, gave Technology its first official victory of the season. In its only other debate this season, the Technology team unofficially defeated Boston University on the question: "Resolved that a world federal government should be established."

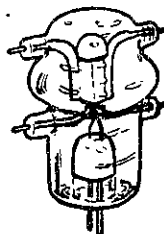
## Compton

will give the graduate "a knowledge of men and their problems, a knowledge of social organizations and trends," and "an appreciation of finer things."

"The Institute is continually trying to increase its usefulness in the advancement of science and its practical applications, and to increase the effectiveness of its education of young men to carry forward these objectives," Dr. Compton stated.

He concluded by saying, "We can never hope to achieve fully our objectives because if we are alert and inspired with sufficient vision our objectives will always be ahead of our performance."

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## Open House

(Continued from Page 1)  
undergraduate activities and their living groups and their contribution toward the education of a student into a well-rounded citizen. Concurrent with the principal attraction of exhibitions will be a social program designed for students' families and friends. "In addition," states Brock, "a greatly increased faculty and student body, many new scientific developments during the past few years, and an enviable wartime record should all contribute towards making the 1948 Open House the largest in Tech's history."

First Conceived In 1922  
First conceived in 1922 as a week-day evening affair for special guests, Open House was held annually until 1936. After that it was held biennially until 1940. From an original attendance of 1500, the event grew to attract 30,000 guests in 1936, 1938, and 1940. Originally a student-managed project, the faculty became more and more active as the scope of Open House increased. Now, faculty participation is limited to the Advisory Committee and representatives in each department.

The Open House student organization is responsible for the vari-

## B.U. Outplayed by Tech Bridge Club

Winning by a 20-10 margin in its first intercollegiate tournament against B.U. was the newly formed M.I.T. Bridge Club.

Weekly duplicate bridge tournaments, in which any one of the club's 62 members may participate free, are the club's main activity, along with tournaments with neighboring colleges.

The club will go into competition for the National Intercollegiate Bridge Tournament championship in February, the winners of which (there will be two chosen from the New England area) will have an all expenses paid trip to Chicago, where the finals are being held.

ous policies of Open House, the over-all planning, and its translation into actual events and exhibitions. Men who are interested are urged to leave their names at the Walker Memorial Committee office or to contact a member of the Open House Executive Committee. This consists of the co-chairmen, and Robert W. Hanpeter '48, Richard H. Harris, '48, and Otto E. Kirchner, '49, vice-chairmen of receptions, promotion, and presentation, respectively.

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... who frequents the Fife & Drum Room. Or, for that matter, any of the gay young college set who find the Fife & Drum Room the perfect rendezvous for delicious food, congenial atmosphere, and superb dance music. Never a cover or minimum.

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# MIT Opens Arms to Radcliffe in Harvard Library Ban

DEC 19 1947  
INST. OF TECHNOLOGY

By DAVID A. GROSSMAN  
Radcliffe's campus throbs today with the pitiful cries of bookless "Cliffe-dwellers." Harvard University, once considered the flower of New England chivalry, has banned Radcliffe students from its libraries, particularly the new Lamont library. The Harvard Crimson, in an article on the Lamont library, let drop the bald statement that "smoking will be permitted (in the new library) but Radcliffe undergraduates will not."

Stirred by this hint of discrimination against Radcliffe by its partner in education, The Tech has investigated the situation and herewith presents the story of this spectre in the closet of Harvard. Not only do we intend to show the malfeasance of Harvard but also we intend to do something about it! The Tech, with the cooperation of the Institute's libraries, extends an open invitation to the women of Radcliffe to come to Technology and use our libraries.

The Harvard policy, insidious as it is, is not new. For years now the tender maidens of Radcliffe have been forced to get their books from Harvard by mail order. The literary girl has to make a request for a book from, say, Widener library, from her Radcliffe library which, in turn, pleads with Widener for the book. On even the flimsiest of excuses, we presume, they are refused. She cannot call for the book herself. She cannot even enter a Harvard library.

The only exceptions to this ban, which has thus far succeeded in keeping Radcliffe women out of Harvard libraries, is that honor students can call for their books personally. Could Harvard have devised any more diabolical scheme to prevent Radcliffe women from getting their fair share of "book-larnin'?"

#### Metcalf Gives Advice

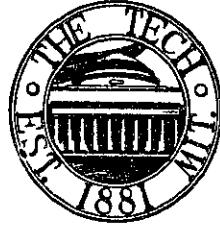
In regard to the Lamont library, the director of Harvard's libraries,

Keyes DeW. Metcalf, said, "We are trying to provide a library that will be satisfactory to the students, and we believe it can be done if the students will do their share." The student's share, we take it, includes tar-and-feathering any Radcliffe girl who gets by the guards out in front.

The authorities at fair Harvard are not entirely antisocial, however. (Continued on Page 2)

A Merry  
Christmas

## The Tech



THE TECH  
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Vol. LXVII, No. 34

CAMBRIDGE, MASS., FRIDAY, DECEMBER 19, 1947

PRICE FIVE CENTS

# MITAA REVISES AWARD SYSTEM

## Foreign Grads To Come Here Next Summer

### NSA Program Gets Under Way To Raise \$21,000 for New Plan

Under a program inaugurated this fall by the National Student Association, 80 graduates of foreign universities will be able to study at the Institute for a two-month period during the summer of 1948. The Foreign Student Service Program was made public following its presentation to the faculty by President Karl T. Compton on Wednesday afternoon.

Norman Beecher, G, in charge of the FSSP for NSA, reported in a recent interview that \$21,000 will be needed to defray the costs incurred by the students for food and transportation during their participation in the program. The Institute Corporation, sitting in executive session, has approved the FSSP and has agreed to make no tuition charge for these students.

The students are to be housed in some of the Technology fraternity houses, homes of greater Boston residents, and the school dormitories if necessary. Beecher said that the fraternities have already voted to support the FSSP, and some of the houses have promised to both house and feed the students.

#### Must raise \$21,000

Beecher expressed the hope that the bulk of the \$21,000 will be raised through contributions from Technology alumni, philanthropic organizations, U. S. State Department, and American concerns with foreign branches. Under an alternative plan it may be possible that a foreign student will come to the Institute at the expense of an American student while the American is studying abroad at the expense of a European family.

(Continued on Page 2)

## Hawthorne, Weber Receive Awards

This week, the War Department presented the Medal of Freedom to Dr. William R. Hawthorne, Associate Professor of Mechanical Engineering, who did much to correlate British and American engineering efforts in the field of jet propulsion and gas turbines. The medal was presented to Dr. Hawthorne by Colonel Harold R. Jackson, head of the Institute's Department of Military Science and Tactics.

A Certificate of Merit was awarded to Dr. Harold C. Weber, Professor of Mechanical Engineering, for "outstanding fidelity of meritorious conduct in aid of the war effort against the common enemies of the United States and its allies in World War II."

## REGISTRATION MATERIAL—SPRING TERM 1948

Registration material for the Spring Term will be issued as follows: First-Year students taking Chemistry, 5.01, will be given their material in the Chemical Laboratory during the week beginning January 5. Those not taking Chemistry, 5.01, may obtain their material in Room 4-258.

All others may obtain material in Building 10 Lobby on Tuesday, January 6, from 8:45 a.m. to 2:30 p.m. After 2:30 p.m. all material not called for may be obtained at the Information Office, Room 7-111.

Registration material for the Spring Term must be filled in and returned to Room 7-142 before 1 p.m., Friday, January 16.

### REPORTS FOR FEBRUARY, 1948

Reports for the Fall Term 1947-48 will be mailed to the Term Addresses on Thursday, February 5. Students who wish to have their reports sent elsewhere must call at the Records Office not later than Monday, January 19. Duplicate reports for students who are under age will be sent to the parents.

No reports are sent to students who are candidates for a degree in February 1948. Any senior who desires a photostat copy of his complete record at the Institute should leave an order at the Registrar's Office, Room 7-142. There is a charge of \$1.00 for the first photostat and \$.25 for each additional copy ordered at the same time. These will be available about March 1.

### ATTENTION OF CANDIDATES FOR GRADUATION IN FEBRUARY 1948

Notices of Recommendation for the February 1948 candidates for degrees will be mailed to the Term Addresses on Tuesday, February 3. Please be sure that your Term Address as given in the Information Office is correct.

December 16, 1947

Office of the Registrar

## Liebman States World's Attitude Split between Science, Theology

Dr. Joshua L. Liebman was guest speaker at the Faculty Club luncheon held on December 15, in the Campus Room of the Graduate House. Rabbi Liebman, spiritual head of Temple Israel in Boston and author of "Peace of Mind," spoke on the subject of "Reflections on Man and Morality Today."

According to Rabbi Liebman, the major problem of today's world is the tremendous split between the world attitude on science, and the world attitude on sociology and theology. This split, he stated, is expressed in a philosophy of aloneness, and a motif of divorce from fellow man and the universe. This theory, one of negation and defeatism, is one of the most harmful beliefs in the world.

## Campbell to Deliver Opening Lecture In Arts Soc. Series

The first of the winter series of Society of Arts popular science lectures will be given in Huntington Hall at the Massachusetts Institute of Technology at 4:00 o'clock on Sunday afternoon, December 21. The speaker will be Professor William L. Campbell, head of the department of food technology, whose subject will be "New Developments in Food Technology: One Answer to Food Shortages."

Professor Campbell will discuss the contributions of science toward better foods and will speak of the improvements in production, transportation, and processing. He will also speak of the effects of war research on food technology, including the effects of atomic investigations and high-voltage sterilization of foods.

The second lecture of the series, which comes on Sunday, January 18, will be given by Dr. Clark Goodman, associate professor of physics, who will speak on "Nuclear Power." "Sound and Silence" will be the subject of the third lecture which will be given by Dr. Richard H. Bolt, associate professor of physics, on Sunday, February 15.

(Continued on Page 3)

## Alumni Advisory Council Succeeded by Athletic Administration Board

### Advisory Board Will Determine Team Eligibility

A new Athletic Administrative Board to succeed the Alumni Advisory Council on athletics will be the top policy-making body concerned with the Institute's athletic program, it was announced this week.

Professor H. Guyford Stever has been appointed chairman of the board for a term of two years. The alumni members are William W. Garth, '36, and Lewis T. Jester, '41. The student body will be represented by William J. Hart, '48; Henry L. Henze, '49; and Duane D. Rodger, '48. The faculty member, in addition to Professor Stever, is Professor R. H. Robnett, who will serve for three years. Ex-officio members of the board are Dean Everett M. Baker, Dr. Dana L. Farnsworth, and Ivan J. Geiger, Director of Athletics.

(Continued on Page 2)

## Admiral Cochrane Talks on Sea Power Is Essential for Supply

In an address delivered before a joint meeting of the Propeller Clubs of Technology and Boston, Vice-Admiral Edward L. Cochrane stated that while "air power is the thing, a good fleet is still vital."

Admiral Cochrane, who directed the spending of over 15 billion dollars as Chief of the Bureau of Ships of the United States Navy, stated that his position at Technology as head of the Department of Naval Architecture and Marine Engineering is "the only post for which I would have retired from the Navy." Admiral Cochrane continued with the assertion that "the leadership in all the shipbuilding in this country during World War II of both naval and merchant ships was furnished by Technology graduates."

Admiral Cochrane stressed the preservation of an adequate merchant fleet as important. "Scrapping the Merchant Marine would make no more sense than scrapping the railroads," he commented.

Admiral Cochrane said that while it would require only 44 Liberty ships to transport 100,000 tons of supplies from San Francisco to Australia, 85 Liberty ships would be needed to supply fuel for airplanes used for the same job, in illustrating the comparative efficiency of the two.

### Policy Changed For Awarding Class Numeral

Abolishing the straight "T" award and creating a new style of varsity and junior varsity letter, the M.I.T. Athletic Association approved a sweeping revision of its awards system at the regular monthly meeting of the A.A. Tuesday evening in Walker Memorial.

A plan for a major-minor sports program at Technology, advocated by coaches of track, crew, swimming and basketball, was defeated by the Association members at the week's meeting. The A.A. also adopted a new eligibility code for intramural athletics, approved the letter-winners in cross-country, and sanctioned a change in policy for the awarding of class numerals.

By a vote of 9 to 18 the A.A. defeated a motion for an "outstanding discretionary award" similar to the present straight "T." In motions by Joseph S. Gottlieb, '50, chairman of the MITAA Awards Committee established six weeks ago to study a possible revision in the award system, the A.A. passed the following rulings:

- (1) There shall be a seven-inch chenille "T" for varsity letters.
- (2) There shall be a five-inch chenille "T" for junior varsity letters.
- (3) Freshmen shall receive their class numerals for competing in the number of events required by their sports. No upperclassmen shall receive numerals.
- (4) Awards for Field Day winners shall be decided upon by the Field Day Committee.

The new varsity and junior varsity emblems will be devoid of any extra letters or designs indicating the sport for which the "T" was awarded. Defeat of the motion for a major-minor program further eliminated a possible distinction between athletic teams. The major-minor system was proposed to provide some extra recognition to participants in those sports which it was felt demanded more time and effort by the participants.

The A.A. also passed an intramural eligibility system for basketball, swimming, and track proposed by Russell N. Cox, '49, chairman of the Committee on Eligibility. The intramural code defines, as ineligible for competition in their respective sports all freshman and varsity team members, all previous Technology letter winners, and all letter winners from other colleges. All freshmen and sophomore Field Day numeral winners are eligible.