



No Corsage Rule to Be Enforced

ATO, SAE, Theta Chi To Hold Parties Sat.

The I.F.C. Dance Committee has emphasized its ruling that absolutely no corsages will be allowed on the dance floor at the All-Victory Ball to be held Friday, September 28, in the Imperial Room of the Hotel Statler.

The night following the dance will be the occasion for several fraternity parties. The ATO "Fall Fling" will be held at Fry's Barn in Brookline and the SAEs will give a "Sailor Party" at their home on Beacon Street, while the Theta Chi house also on Beacon Street will be the scene of a third party. Ticket stubs are necessary for admission to the parties.

Enoch Light's orchestra featuring the Light Brigade, a vocal group with Leslie James, a curvaceous girl singer, will play for the occasion. A limited number of tickets are available at the desk in the lobby of Building 10. The price is \$1.00, tax included.

Institute Planning Housing Project for Returned Vets

Returned World War II veterans coming to Technology to complete their education this fall and next spring will find ample housing facilities for them in the form of new homes which the Institute is at present building.

The decision to carry out this project was made by the Corporation when it was discovered that a large percentage of the returning veterans were married, and that the housing accommodations were not available in Boston or Cambridge. The plan is in keeping with the Institute's policy of giving returning soldiers every possible assistance in completing their education.

Located Near Technology

One of the greatest advantages of the new project will be its location near Technology on the Institute property west of Massachusetts Street. (Continued on Page 4)



Leslie James, beautiful vocalist with Enoch Light's Orchestra. It's rumored that she has a voice too.

All Frosh Invited To Dorm-Simmons Acquaintance Hop

**200 Girls Coming;
Only Limited Number
Of Tickets At Door**

An acquaintance dance will be held for dormitory men in Morriss Hall, Walker Memorial from 8:00 P.M. until midnight tomorrow evening. The dance will give the dormitory wolverines an opportunity to display their versified talents in this field of Social Science. The target of their operations will be about 175 beautiful young ladies from Simmons College.

The Dormitory Committee has announced that the Acquaintance Dance is open to all freshmen. Fraternity men and commuters are invited and may purchase their tickets at the door.

Those who wish to buy tickets at the door are advised to be there early because the balance between the sexes must be maintained.

The music for the dance will be furnished by Tech's own dance band, The Tectonians, directed by Keith P. Lanneau, 2-46. This will be the second public appearance of The Tectonians and indications

(Continued on Page 2)

Official Notice

All veterans under Public Law 16 are requested by the Dean's office to have an interview with Mr. John F. Welch of the Veterans Administration, in Room 7-134 on Tuesday, September 18.

Mr. Welch will be available from 9:30 A.M. to 12:00 noon and from 2:00 P.M. to 4:00 P.M.

C. P. S. Hears Dr. W. N. Locke

Language Dept. Head Had OWI Assignment

Prof. William N. Locke, recently appointed head of the Department of Modern Languages, spoke on the subject, "Allied Propaganda Efforts in Europe," on Wednesday, September 5, at 5:00 P.M. in Room 6-120. Dr. Locke's talk which gave attention to leaflet distribution and radio broadcasts from the United States and Great Britain was sponsored by the Combined Professional Societies.

Dr. Locke returned recently from Europe, where he was serving on a special assignment with the American Army for the Office of War Information. He was a civilian member of a Psychological Warfare Detachment.

Public Address Systems Used

In the course of his lecture, Prof. Locke told of the use of public address systems on the front lines during the last stages of a battle, telling the Huns of their precarious position and instructing them to surrender. Another device used by the Psychological Warfare Service to encourage surrender was to broadcast records of captured German troops.

Prof. Locke dwelt in great length on the use of pamphlets. He mentioned dropping pamphlets pointing out to Nazis their dangerous position and the consequences of continuing to fight.

Dr. Locke's lecture was the second in a series of non-technical talks sponsored by the C.P.S. These talks are intended to be of interest to engineers in general, and all students are invited.

Class Elections Of 2-47, 10-47 Set For Oct. 10

Institute Committee Approves Intramural Tech Sports Program

Class elections for the Classes of 2-47 and 10-47 were approved for Wednesday, October 10, by the Institute Committee at yesterday's meeting. The Committee also approved the Intramural Sports Program with certain changes.

At the elections, a President, Vice-President, Secretary-Treasurer, and two Institute Committee Representatives will be chosen for each class. The members of the Junior Prom Committee of the Class of 2-47 have already been elected. Deadlines and other information regarding the elections will be released in the near future.

As to the Intramural Sports Program the following three motions, tabled at the previous meeting, were passed: first, the Institute Committee accepts the report by the committee, appointed to investigate Intramural Sports at Technology, with certain small changes, and will establish an Intramural Sports Program.

(Continued on Page 2)

Glee Club Tickets Are On Sale Now

Tickets for the Glee Club's concert-dance with Pembroke College next Saturday, September 22, are now on sale at the desk in the lobby of Building Ten. They will remain on sale all next week, and may be obtained at the desk between 11:00 A.M. and 2:00 P.M. They may also be purchased from Norman N. Holland, 2-47, in Hayden 312 at the Dormitories, and from Charles Dobony, 2-46, in Room 304A at the Graduate House.

The Club presented its first concert last Sunday at Longwood Towers in Brookline, and the evening was featured by some excellent accordion playing by John S. Serafini, 10-46, who rendered several solos. Serafini also holds a berth with the Tectonians, who are providing the music for next Saturday's dance.

The Tech



Vol. LXV

Friday, September 14, 1945

No. 29

Managing Board

General Manager Alan R. Gruber, 10-45
 Managing Editor Noel N. Coe, 2-46
 Business Manager Arthur Schiff, 2-46

Editorial Board

William C. Dowling, 2-46
 William F. Herberg, 2-46
 William J. Rapoport, 2-46
 Robert G. Wilson, 2-46

Associate Board

Richard Bakal, 2-47
 Carleton H. Boll, 2-47
 Claude W. Brenner, 2-47
 Donald S. Cohen, 10-46
 Paul Gerhardt, 2-47
 Robert W. Hanpeter, 2-47
 Gordon O. F. Johnson, 2-47
 Donald A. Mains, 2-47
 Paul V. Osborn, Jr., 2-47

Staff Assistants

Louis F. Kreek, Jr., 10-47
 Walter A. Lack, 2-47

Offices of The Tech

News and Editorial—Room 3
 Walker Memorial, Cambridge, Mass.
 Telephone KIRKland 1882
 Business—Room 301, Walker
 Telephone KIRKland 1881

STUDENT SUBSCRIPTION, \$1.50 Per Year

MAIL SUBSCRIPTION, \$2.00 Per Year

Published every Friday during College Year, except during College Vacation and the third week in October.

Represented for national advertising by National Advertising Service, Inc.,
 College Publishers Representative, 420 Madison Ave., New York, N. Y.
 Member, Associated Collegiate Press

Night Editor: Claude W. Brenner, 2-47
 Assistant Night Editor: George A. Freund, 2-48

THEY DESERVE YOUR SUPPORT

We have often climbed up on our editorial soap-box to deliver a plea for general student support of some activity or athletic team which would be greatly aided and encouraged by a display of some interest and recognition from the lackadaisical Genus Techman. Today, just eight days before the Glee Club's first big concert of the term, seems to be a particularly good time to stump for the Combined Musical Clubs in general and the Glee Club in particular.

That we have a good Glee Club is a certainty; no one can doubt that after hearing such excellent performances as the one given in June at Tech Night in Symphony Hall. Likewise it is impossible not to appreciate the disappointment which must be felt by the Glee Clubbers after they practice diligently for months, invite clubs from other schools to join them, and then give an excellent concert before a practically non-existent audience. Over 100 men work hard to make our Glee Club something to be proud of, yet only a handful of students ordinarily turn out at a concert.

The Pembroke concert, which will be held next Saturday evening in Walker and which will be followed by a dance featuring the Tech-tonians, provides an excellent opportunity for giving the enthusiastic, but frequently disillusioned, members of the Glee Club some heartily deserved support and encouragement.

Inst. Comm.

(Continued from Page 1)

gram according to the terms of the report; second, this program will officially start with the fall term of this year, except that the results of the present baseball tournament will be included; third, the Institute Committee will extend an invitation to the Beaver Key Society to assume responsibility for running this In-

tramural Sports Program.

Competition in Six Sports

The report calls for competition in six sports—baseball, basketball, touch football, swimming, track, and volley ball—among the various living groups at Technology. There shall be five general classifications of living groups. Points will be awarded to winning teams in a certain sport according to its import-

(Continued on Page 4)

In The Spotlight

The Chairman of the Walker Memorial Committee, Jim Goldstein, is an affable fellow (see cut) who talks with just the faintest hint of a Southern drawl. This is because Jim has lived in Alexandria, Louisiana, for the best years of his life (that is, excluding those spent at Tech). He was, however, born in Chicago where he lived six years before moving to Milwaukee, Wisconsin, "the home of Schlitz," where he remained only a year, and thence to Louisiana.

Despite his Yankee origins, Jim is imbued with the spirit of the Confederate South. He remarked that a lot of his friends kid him about being slow, but he doesn't understand why all these Yankees are always rushing, so he just takes his time. Elaborating a little on his feeling for the North he said, "I was in high school before I learned that Damn Yankee was two words."

Wears Shoes in High School

Jim's high school career was highlighted by the fact that it was upon his entrance that he started to wear shoes regularly. "The South is pretty run down, you know," he said. Another high school achievement was the editorship of the year book, which he gained in his senior year.

After conducting a playboy's existence at Williams College for a term, Jim entered Tech in July of

Vets To Decide On Tech Organization

All Veterans Requested To Attend Deliberation

The final decision on the formation of a veterans' organization here will be made at a meeting of all ex-servicemen at the Institute, to be held on Wednesday, September 19, at 5:00 P.M., in Room 6-120. Every veteran is requested to attend so that the conclusions reached will be representative of the desires of the entire group. There is to be open discussion on all questions brought up.

A committee, appointed at the last meeting of the veterans to investigate possible aims and purposes of such an organization, will report on its work. Several suggested activities are a legal committee, coordination with the Veterans Administration, and aiding the incoming veterans to adjust themselves to all phases of Technology life. The recommendations of the committee are also subject to approval at this meeting.



JIM GOLDSTEIN

1943 and joined Pi Lambda Fraternity. "I was a happy civ for a year," he said ruefully, "my eight terms are up in November, and I can hardly wait to get out of the Navy."

Besides his activities with the Walker Memorial Committee, he has been on the Athletic Association, ever since coming to the Institute. He served as assistant manager as a freshman, Field manager, vice-president of the Association, and now acts as publicity man for the Association. He worked on *The Tech* and *Technique* for a while but soon quit because, "I was appointed by the lack of life." This may sound contradictory to his previous statement about liking to do things easy, but maybe as a

(Continued on Page 4)

Dorm Dance

(Continued from Page 1)

are that they will surpass past performance at the Field Dance.

The refreshments, consisting of punch and cookies, will be prepared by the Walker Memorial staff and will be served during the dance. The lounges will be open, but there will be no dancing on the terrace if the weather permits.

The tickets for the dance are now on sale and can be purchased from any dormitory hall chairman for the sum of \$1.00. Any remaining tickets will be on sale at the door at the beginning of the dance.

All arrangements for the dance are in the hands of the Dorm Dance Committee headed by Chairman N. Holland, 2-47.

Tech Tars Grab Two More Meets

Brite Is Star Champ; Oberg Trophy Sunday

Tech registered an easy victory Sunday in a quadrangular meet on the Charles, in which Holy Cross, Tufts and New York State Merchant Marine Academy were the visiting teams. Meanwhile, at the Coast Guard Academy in New London, Leigh Brite, Commodore of the M.I.T. Nautical Association, presided over the Intercollegiate Yacht Club Association third annual Class Championship.

On the Charles River basin this Sunday the Tech sailing team will compete in the semi-annual Oberg Trophy Regatta, open to all colleges in the Boston area. The Tech tars have held this trophy for two seasons, winning last fall with a score of 59 out of a possible 60 points and last spring with a perfect performance.

Black Sparks Victory

Triumphing in five races and finishing second in the sixth, Dave Black spearheaded the M.I.T. success last Sunday. Thus, Black secured only one point in sailing against the other two Tech boats and two from each of the other teams. Final tabulation for the meet: M.I.T., 389; Tufts, 247; Holy Cross, 231; and Kings Point Merchant Marine, 206.

Among the Tech sailors last week was Ray Brown, who was high in division with 68 points, and Marvin, both freshmen. The two skippers will represent Tech in the Intercollegiate Freshman Championship Regatta to be held this Sunday on the Thames at New London.

Star Championship Close

Winning the Star Class title with 33 points, Brite was forced to come from behind, as he captured the last three races to insure the victory, which was not settled until the last event. Yale finished in runner-up spot with 41 points, the Coast Guard trailing by one.

Activities

A special meeting is to be held at Briggs Field, Tuesday, September 18, at 5:00 P.M. Food is in the offering.

Track Club

Final Round Fails To Settle Tourney

Beaver Key Softball Play-off Is Necessary

Although the scheduled games of the final round of the Beaver Key softball tournament were completed last night, no decision has yet been reached as to the 1945 champion. Having won three out of four in the finals, Phi Delta Theta and Phi Kappa Sigma will have to engage in a play-off to determine the title-winner. Theta Chi, by beating the Student House this evening in a replay of their 6-6 deadlock of last night, can also qualify for the play-off.

Thrillers Mark Close

Last night's games furnished an exciting close to the regular slate of finals. After matching S.A.E. runs in the first and third rounds, the Phi Kaps broke through in the sixth with a cluster of four tallies to break a 3-3 tie. Having loaded the bases with none out in the top of the seventh, the S.A.E.'s saw their hopes die as the last three men went down on strikes.

Theta Chi narrowly escaped an upset defeat at the hands of Student House by duplicating the Phi Kaps' feat of counting four runs in the sixth. Since this outburst wiped out Student House's 6-2 lead, the contest had to be called because of darkness, as neither side could register in the seventh and eighth.

Phi Delta Theta was first to clinch a berth in the tie play-off by turning back the Student House, 6-1, in a Wednesday game.

Undefeated Teams Fall

As the schedule progressed, the undefeated finalists all received at least one blemish on their records. After losing its opener to the Phi Deltas last week, Phi Kappa Sigma successively trounced the Student House, Theta Chi, and, finally, S.A.E. The conquest of the Student House last Monday was assured after two rounds, for the winners tallied three times in the first and second frames. Last Wednesday the Phi Kaps broke Theta Chi's string of victories with a 7-2 success. Held to five hits, the Theta Chis were unable to erase a two-run Phi Kap lead going into the sixth.

Prior to this setback, Theta Chi

Four Tech Boats Compete In Riverside Races; Frosh, J.V., Varsity Take Victories

Company 4 Leads In V-12 Athletics At Half-way Mark

In the V-12 intramural track meet held on September 6 and 7, Company Four came from behind to score a 54 to 41 victory over Company Five. Company Two was third with 16 points. After the events of Thursday night, Company Five held a slim three-point lead; but the victorious company put together wins in the 100-yard dash, the high jump, the broad jump, and the 880- and 220-yard runs to take the meet. Asay of Company Five was the only man to score a double victory; he turned the trick in the 440-yard run and the shot-put.

Company Two Wins Softball

In the V-12 softball league, which was also completed this week, Company Two took the championship with a record of thirteen wins and three losses. In the early part of the season Company Four got off to a fast start, attributed largely to their fine infield, which was tops in the league. As the campaign progressed, however, weak hitting began to slow down the early leaders, and Company Two's slugging, led by Waldron and Dobony, paid off in a victory streak. Wittlinger's outstanding pitching performance of twelve wins and two losses also deserves considerable credit for putting Company Two at the top. Companies Three, One and Five followed Company Four.

Company Four Leads Race

In the scramble for the purple rooster, emblematic of V-12 athletic supremacy, Company Four has emerged as the leader at the half-way mark in the term, by virtue of 100 points as track champion and 75 points as softball runner-up. Company Two is close behind with 150 points. The final winner will not be determined, however, until the results of the wrestling tournament and the football league, which gets under way next week, are known.

last Friday had subdued Phi Delta Theta for the Phi Deltas only loss. After piling up a 9-1 margin, the victors coasted in despite Phi Delta efforts to recover.

First Boat Thwarts J.V. In Close Decision; Frosh Beat 3rd Varsity

Four Tech crews emerged with top honors last Sunday in the annual "Old Timers" Regatta sponsored by the Riverside Boat Club. The M.I.T. teams competed in three of the nineteen events, run throughout the afternoon on the Charles River under overcast skies. Tech Coach James B. McMillin served as head referee for the occasion.

The feature attraction for the afternoon was a four-boat race involving the Tech varsity and junior varsity, Shrewsbury, and Riverside. During the week preceding the race, what had been the varsity crew was displaced by the J. V., so that the varsity last Sunday was new in its role as the number one boat. The race having broken down into a contest of strength between the two Tech crews, the varsity flashed across the finish line just ahead of the J. V. for a hair-raising victory.

Frosh, J. V. Take Victories

Prior to this event, however, the freshman crew accounted for the first Tech success by beating the M.I.T. third varsity and the Nichols Boat Club entry. In the ninth event of the day the Tech junior varsity outstroked a team representing the Shrewsbury Rowing Club. All of these contests were over the five-eighths-mile course.

At the conclusion of the afternoon's activities the Riverside Boat Club played host to the contestants for a party in the boathouse. Winning coxswains were presented their megaphones, while the winning Tech crews have since received pins designed with crossed oars and the letter T.

The Tech Will Murder Voo Doo At Amory Field

The base-beer-ball game between THE TECH and VOO DOO has been scheduled for Saturday afternoon, September 29, at Amory Field in Brookline. Further details about the exact time and such are forthcoming. All assorted Tech men are invited to come with their friends and dates to watch the field get strewn thick with layer upon layer of fallen VOO DOO men.

AMERAS

ht - Sold - Exchanged

ston Camera Exchange

42 BROMFIELD ST.
BOSTON, MASS.

Hugh Kendall Gives Lecture On Radar Tuesday, Sept. 18

Hugh C. Kendall, a former instructor in the Technology Radar School, now director of termination for the Air-borne division of the Radiation Laboratory, will give a lecture on modern radar equipment and techniques which have been released by the proper authorities, illustrated with a demonstration set, Tuesday, September 18, at 5:00 P.M. in Room 10-250. The lecture will be sponsored by the Technology branch of the A.I.E.E.

Mr. Kendall, a graduate of Northwestern University, was with the British Branch of Radiation Laboratory from May 1944 to March 1945, when he left for Paris to establish the Paris Branch. He later returned to the United States and was designated liaison officer between the Radiation Laboratory and the Air Technical Service Command at Wright Field in Dayton, Ohio. He now heads the Air-borne Radar division of the Radiation Laboratory.

Vets' Housing

(Continued from Page 1)

Avenue, between Memorial Drive and Vassar Street.

The project, which is to cover an area of nearly ten acres, will provide 50 houses for married veterans without children, and 50 with an extra room for those who have children. The homes will be very much like small apartments in size, but their construction as small houses will afford garden space and privacy which would not be available if they were apartments.

Construction Begins Immediately

Construction of the houses is to begin immediately, and they will be ready for occupation by November 1. The speed with which the project is expected to be erected is made possible by the cooperation of the departments of Civil, Mechanical, and Sanitary Engineering at the Institute, which have provided expert advice on the grading of the land, and the laying out of roads, paths, drainage, water, sewer, gas and electric layouts. In directing the project, the School of Architecture and City Planning has had the assistance of the Department of Building Engineering and Construction in working out heating facilities, foundations, insulation, lighting, and structural details.

The project is being built from the Institute's endowment funds, and rents will be scaled as low as possible to provide veterans with pleasant and efficient living quarters at the lowest possible cost.

Dr. Mead Will Head Million Dollar Lab.

Dr. Warren J. Mead of the Institute will head a new million dollar laboratory in Cambridge, plans for which were announced this week by Governor Maurice J. Tobin. This building is soon to be constructed by the Reynolds' Metal Company of Richmond, Va., to take advantage of "the unequalled research facilities and personnel in the Greater Boston area."

Dr. Mead, who is Professor of Geology in charge of the department, said that the new plant, which will be one of the most modern in the field of aluminum and aluminum alloy research, would be built as soon as present problems of reconversion are ironed out. The company has already purchased eighty thousand square feet of land on Memorial Drive near Magazine Beach and about halfway between Harvard and Technology.

Spotlight

(Continued from Page 2)

man he was full of the spirit and joie d' vivre so characteristic of first termers.

Likes Bathing and Other Things

On week ends, when he is free from the cares of Tech and the rigors of Navy life, Jim likes to indulge in, and we quote, "Sun, sand, surf, and sex." He has bathed off beaches in Vermont, New Hampshire, Massachusetts, and in the Gulf of Mexico, and, therefore, feels himself qualified to say that the Southern women look best in bathing suits.

Asked what he would like to do after graduating with a degree in Mechanical Engineering, he said that he has been trying to decide. First, of course, he would like to take a short vacation, say four months, and do a little celebrating. After that he has considered traveling to foreign countries, though he has no preferences as to where he would like to start. That's about as far into the future as Jim has planned, although he said he's often thought of taking a post-graduate course in anatomical physics.

Course VI Picnic Called Because Of Bad Weather

The Course VI picnic, scheduled for this coming Sunday, September 16, will be postponed indefinitely, according to announcement by the American Institute of Electrical Engineers, which stated that inclement weather necessitated cancellation.

Inst. Comm.

(Continued from Page 2)

ance. The organization in charge (the Beaver Key Society at present) will formulate the program for each year and submit it to the approval of a meeting of representatives from each of the living groups.

The Institute Committee also decided that the Senior Ring Chairman shall from now on be elected by the Junior Class rather than be appointed by a joint meeting of the Executive Committees of both the Institute Committee and the Junior Class. Also, it was established definitely that only second term Juniors may order Senior rings, and only Seniors may wear them.

At the recommendation of the Executive Committee, an amendment to the Election Committee Constitution was made, which will require all nominees to submit to the Election Committee a theme stating their plans in office, a photograph of themselves, activity record, and their cumulative rating. By present regulations, they could only be requested to do this.

The Committee also approved the change in the I.F.C. Constitution, which will give both representatives of each fraternity each a vote in the I.F.C. rather than one vote for each fraternity represented.

During the last four month period activity reports have been made by one Class A and one Class B activity at each Institute Committee meeting. This period was extended for another four months. At this meeting, Noel N. Coe, 2-46, president of the Gridiron Society made a report.

Roger Bart, 2-46, and George A. Ley, Jr., 2-46, were absent from the meeting.

A. S. M. E. Visits Quincy Shipyards, Power Plant Next

The American Society of Mechanical Engineers will visit the Mystic Power Plant of the Boston Edison Company next Tuesday, September 18, principally to inspect high pressure turbines. The party will leave the lobby of Building 10 at 2:00 P.M. The Mystic Power Plant is the most modern on the East Coast, having been completed very recently. All members wishing to make this trip should contact Richard L. Krahe, Jr., in Room 209 of the Graduate House before tomorrow noon.

Last Saturday, September 8, Quincy Shipbuilding Division of Bethlehem Steel Company was visited by the A.S.M.E. The trip included inspection of ways, foundries, machine shops, storage depots, heat treating ovens.

Nathaniel M. Sage, director of M.I.T. Placement Service, will speak on the subject "Placement and after Graduation" at a public lecture sponsored by the A.S.M.E. Monday, September 24, at 5:00 P.M. in Room 6-120.

Old WIMX Move Into New "Shack"

Work has begun on the reconstruction of the Technology radiation, WIMX. After a short business meeting held Tuesday, September 11, in Room 10-267, the Tech Society adjourned to its "shack," located in Room 10-369 and began to move the transmission equipment from storage to the new room. Reconstruction of the station will begin as soon as the equipment can be catalogued and drawn up for operation.

During the business meeting plans for code classes to be held Wednesday at 5:00 P.M. in Room 10-369 were discussed, and instructors for the classes were pro-

The Veteran's Flower Shop

317 TREMONT ST., BOSTON

QUALITY FLOWERS AT LOWEST PRICES

7 Roses—\$2.50

3 Gardenias—\$2.50

Orchids—\$4.00, \$5.00, \$7.00, \$8.00

FREE DELIVERY

CALL HUB. 4714

Z. KACOYANIS, World War II Veteran

The First Church of Christ, Scientist

Falmouth, Norway and St. Paul Streets, Boston, Massachusetts

Sunday Services 10:45 a.m. and 7:30 p.m.
Sunday School 10:45 a.m.; Wednesday evening meetings at 7:30, which include monies of Christian Science healing.

Reading Rooms—Free to Public, 3 Milk St.; Boston St., Little Building Floor; 60 Norway St., Massachusetts Ave.; 151 Con Street, Coolidge Park. Authorized and approved literature on Christian Science may be read or obtained.

