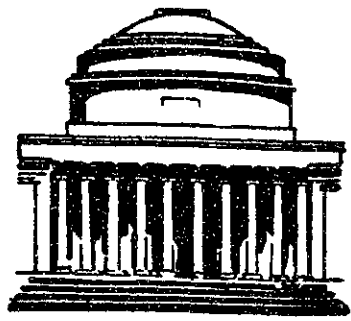


The Tech



MASS. INST. OF TECHNOLOGY
FEB 28 1939
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Volume LIX, No. 7

CAMBRIDGE, MASS., TUESDAY, FEBRUARY 28, 1939

Price Five Cents

High-Voltage Generator Is Put Into Use

Professors J. Trump And Van de Graaff Are Designers

IS VERY COMPACT

able of producing penetrating wave X-rays at a potential of 100 volts, a compact direct-current electrostatic generator, designed by Professor John G. Trump, of the Department of Electrical Engineering and Professor Robert J. Van de Graaff, of the Department of Physics, has just been placed into operation at the Institute. This machine will be used primarily for engineering research and for the treatment of malignant disease.

Professor Trump, in describing the new generator before the American Physical Society at Columbia University, Saturday, pointed out that its chief feature is compactness. This is made possible by taking advantage of the superior insulating characteristics of air and other gases under pressure, which permits the use of very high voltages in small apparatus without loss by spark discharge.

To Be Used Here during the next six months the new generator.

M. T. Debaters To Meet Harvard

Medicinalized Medicine To Be Subject Of Debate On Thursday

A team from Harvard, Tech debaters will discuss the merits of medicinalized medicine in a contest to be held in Room 4-270 Thursday evening at 8:15.

Technology, represented by Harold L. '41, Arthur L. Lowell, '41, and Sensiper, '39, will uphold the merits of the question, "Resolved: A system of socialized medicine should be adopted making available to the complete medical care at public expense." Sensiper this year is Secretary of the Eastern Intercollegiate Debate League.

Debate William And Mary March 10 the Institute will host a visiting team from the College of William and Mary. They will also engage the oratorical debaters in debate on the medicine question. On March 17 the Institute is to witness still another debate on the same subject, this time against Stanford.

er Is Planned To Aid Eastern Universities

agon Dinner for the aid of students in China will be given by the Eastern Student Service Fund at 6:15 P.M., Wednesday, March 1, at a Chinese Restaurant on Cambridge Street. This dinner is part of an extensive fund-raising campaign being carried on in Greater Boston by the fund.

meal will be totally Chinese in character and complete with chop-sticks for those who can use them. The price is \$1.00 per person. Those wishing to contribute to the fund may do so by donating to Charles Tsiang, '38, in the Student House.

money will be used both to aid universities which are short of funds and which are forced to reduce their budgets as a result of Japanese interference and to provide board and lodging for the students themselves.

Camera Club Exhibition On View At Photo Salon

A photographic art gallery, has been opened by the Technology Photo Service in the basement of Building 11. The photographic prints on exhibition at the present time have been loaned by the Boston Camera Club, and will be on display until March 12.

and pistol team—gl The freshman pistol team will hold an organization meeting today at 5 P.M. in the West Lounge of Walker according to Edward F. Thode, '42, the manager.

There are many matches awaiting a qualified team among the metropolitan colleges. The captain of the team is Gerard M. Schuchter, '42, while the coach is Major Kirke B. Lawton.

Professor Houser At Head Of Colloid Chemical Meeting

Major Topics Are Problems Of Chemistry Employed In Oil Drilling

Professor Ernst A. Hauser, of the department of chemistry, has been chosen to preside over a four day symposium on the relation of colloid chemistry to oil and petroleum production which started yesterday at the University of Oklahoma in Norman, Oklahoma.

In addition to presiding over the sessions of the symposium, Dr. Hauser will deliver a series of lectures about colloids. Only recently Dr. Hauser developed a new clay compound also known as a substitute for cellophane and paper.

Found While Studying Muds He discovered this substance in the course of search on "drilling muds", colloidal clay mixtures which are used to keep oil well drills from jamming and breaking during the sinking of deep wells.

Problems concerning the making of such "muds", as well as the treatment of water for drilling purposes, the problems involved in the removal of scale forming compounds, and the prevention of corrosion are among the questions which will be discussed at the meeting this week.

Col. S. Godfrey To Talk For Banquet Of S.A.M.E.

Col. S. C. Godfrey, father of Charles S. Godfrey, '40, will speak on several phases of military training at a dinner sponsored by the Society of American Military Engineers, to be held at 6:30 Thursday evening in the Faculty Room of Walker.

Col. Godfrey, who is guest speaker for the occasion, is an executive of the military division in charge of discipline and training of the Corps of Engineers.

Co-eds Were Advised By T.C.A. Men Before Days Of Big-sister System

Before the birth of the Institute's Women's Association several of the Technology co-eds received some rather unusual correspondence from members of the T.C.A. student adviser group when the latter went about its job of helping the incoming students off to a good start on his or her arrival at the Institute.

The first of the series of events reached a climax last Christmas when Phyllis Needam, '36 and Aaron Redcay, '34 were married in the Old South Church. The couple's acquaintance began when Redcay gave Miss Needam advice, as the ever-helping adviser, about how to meet the problems she would face at Technology while learning to be an architectural engineer. During the time Phyllis studied here, Redcay remained in his role of ad-

ISSUES

POLITICS are back again, and with their return the Ferret resumes his role of unofficial commentator. This time his interest has been aroused by the recent announcement of the T.C.A. nominations.

From all reports there are four good men who are eligible to lead this organization during the coming year. However, the elections committee, composed of three of the retiring officers, Carr, Beaujean, and Evans, seem to feel that only two of the men are capable of filling deTierre's shoes. What is the matter with the other two?

Undoubtedly Penn did a good job in his supervision of the freshman advisory service, and nobody has ever questioned Taylor's management of the Tech cabin. Yet does either of these jobs compare with Hagenbuch's performance in pulling a freshman camp out of the chaos of a hurricane or with Fifield's able handling of the drive for the funds which are the lifeblood of the T.C.A.?

ELECTIONS will be held tonight. At this time the cabinet members will have their last chance to reward these men for the services which they have rendered to the Technology Christian Association. Wouldn't it be much fairer to have an open election with all four of the principals running? This can easily be accomplished by making nominations from the floor. Judging from a standpoint of personality, initiative, and services rendered, it seems to us that Hagenbuch should be the logical choice for the presidency.

Mr. Joseph Lash To Talk To A.S.U.

New England Branch Of A.S.U. To Hold Annual Informal In Walker

A talk about The Part of Education in Democracy will be delivered to the Technology Chapter of the American Student Union by Mr. Joseph P. Lash, executive secretary of the A.S.U., at a meeting to be held Wednesday at 5 P.M. in Room 4-270.

The Roll Call of human rights, sponsored by the A.S.U., was released Friday and was signed by over one hundred students in the first two days. The list was headed by William F. Wingard, '39, President of the Senior Class, Michael Herasimchuck, '39, Captain of "Scabbard and Blade".

Dance Saturday Evening The New England Branch of the A.S.U. will hold its annual informal dance at Walker Memorial on Saturday evening at 8 o'clock. The music will be furnished by Frank McGinley and his orchestra. Tickets to the affair may be obtained from A.S.U. members at \$1.50 per couple and \$1.00 stag.

er Is Planned To Aid Eastern Universities

viser. In fact, she even became engaged to a medical student for a short time. When she graduated, however, she decided that the life as the wife of a doctor was not exactly what she desired, preferring to be bossed by her old student adviser. The Redcays are now living in Louisiana where he is employed as a junior executive of the Standard Oil Company and she is filling the role of a demure housewife.

Mix-Up in Gender When Domina Spenser, '39 registered in the Course VIII she caused consternation to the junior who was selected as her adviser. He sent several frantic appeals asking that the prospective freshman clear up the mystery surrounding the gender im-

Dormitory Riot Heralds Arrival Of Vernal Tide

Flaming streamers of toilet paper flung from the roofs of the dormitories heralded the coming of spring, as dorm residents last night engaged in their first major demonstration of the year.

The court was strewn with soggy water bags, and the air filled with burning paper while radios blared, fire crackers burst, and waste baskets were hurled from windows.

Several cars attempted to come up the Dormitory driveway to view the spectacle but were forced to turn back when pelted with the water-filled bags.

Prof. F. Magoun To Give Lecture On Sex Problems

Second Of Marriage Lecture Talks Will Be Presented Next Thursday

Continuing the series of eight weekly marriage lectures begun last week, Professor F. Alexander Magoun will give the second talk, "Problems in Sex", at 4 and 5 P.M. in Room 10-250 Thursday evening.

The special question and answer period inaugurated for the first time after the lecture on "Problems in Selection" last Friday proved to be successful so a period of the same nature will be conducted by the lecturer the day after each talk in Room 6-120.

The group in charge of these discussions request that the questions be written out and handed to the chairman of the lecture the day before the discussion period. This will enable the speaker to give full consideration to each individual problem.

Says Problem Is Magnified

In commenting on next Thursday's lecture Professor Magoun stated, "The problem has been magnified out of its true proportions because of the fact that we have covered it with so much mystery, and it is our task to view the problem in its true light. This problem attracts undergraduate attention because of its prominence in the traditional bull session and it is absolutely imperative that students be given correct scientific information."

Professor Magoun gave this same lecture at Colby College last year, where it met with such widespread approval that the audience detained Professor Magoun in question and answer discussion for five hours after the scheduled lecture had been concluded. He has also presented the talk to various Y.M.C.A. groups.

T.C.A. To Elect Officials Today

Election to the executive offices of the Technology Christian Association will take place this afternoon at 5 P.M. in the T. C. A. office.

Following is a list of the nominations, all members of the class of 1940: President, Franklin E. Penn and William R. Taylor, Jr.; vice-president, William H. Hagenbuch and James E. Fifield; treasurer, John L. Danforth. The office of Secretary will be filled by one of the two eliminated for the higher offices.

The T.C.A. Boy's Work Division announced that the volunteers total the largest number since the service was begun. They have just received their assignments for the following terms.

The Charlestown Boy's Club heard Professor Frederick K. Morris and Earnest P. Neumann of Tech at their regular Monday night program last night.

Prom Options Unredeemable At The Dance

Reservation Information To Be Available At The Door

SCHEDULE ANNOUNCED

Those men who have not yet redeemed their Prom options were warned again last night by the committee that they would be unable to purchase tickets at the door and would not be admitted. It was also announced that information on reservations would be available at the door.

The schedule for the dance has it starting at 10 P.M. The receiving line is to be made up from 10:30 to 11:30, and intermission will be from 12:30 to 1. The dance ends at 3. During the intermission Johnny White will entertain.

Limited to 450 Couples

The Prom is limited to 450 couples. The ballroom of the Hotel Statler in which it is being held has had 600 couples in it at other Technology functions.

The committee jokingly announced that a squad of Boston's Finest will be on hand to remove classmates made unmannerly by overindulgence in fruit punch.

Theater Disrupted By Tech Students

Men Arrested After Causing Uproar, But No Charges Are Preferred

A downtown Boston theater was thrown into confusion Saturday night when four Technology students set off several stench bombs at the Bijou, 543 Washington St. Shortly afterwards the four men were arrested on a charge of disturbing a public assembly, but they were not booked on police records and no charge was preferred against them.

Although the men were not held and no bail was set, the pranksters were given a special hearing in court Monday morning. The students' names and the results of the hearing were not divulged.

Will Not Press Charges

Apparently the stunt was done in good fun as the theater management stated that the matter would not be pressed. There was no damage resulting from the act, and the theater was not seriously inconvenienced, according to the manager.

Professor M. S. Vallarta Will Address Physicists

Professor Manuel S. Vallarta of the Department of Physics will address the M.I.T. Physical Society at their first meeting under new officers on March 1, at 5:00 P.M. in Room 4-370.

The topic of Professor Vallarta's talk will be "Cosmic Waves", a subject that has been followed with keen interest by the Physical Society.

Undergraduate Notice

Because of previous space reservations, the Dormitory Tea Dance, scheduled for Saturday, March 5, will not be held, according to Thurston S. Merriam, '39, chairman of the committee in charge of the affair.

The Tech

Vol. LIX Tuesday, February 28, 1939 No. 7

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SUBSCRIPTION, \$1.50 Per Year

Published every Tuesday and Friday during College year,
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Entered as Second Class Matter at the Boston Post Office

REPRESENTED FOR NATIONAL ADVERTISING BY

National Advertising Service, Inc.

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420 MADISON AVE. NEW YORK, N. Y.

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Night Editor: Maurice E. Taylor, '42

WHY THE ARGUMENT?

One of the most characteristic parts of this age is the incessant and wordy warfare which has been carried on by the two modes of thought designated "science" and "religion". Authorities in both fields have written exhaustive studies of the conflict. Opinion has ranged from the most fanatical and narrow-minded support of each side, to calm and sane surveys of the situation.

And yet this conflict has not always existed. It appears to be a child from the womb of modern thought. At one time in the history of civilization, science and religion, neither specifically designated by any label, were in fact synonymous. Such knowledge as we would now characterize as "science" was, in the days of primitive man, known and practiced only by the priests of the tribe. The early precepts of science were motivated by the same urges and desires as motivated the early religious precepts. The medieval struggle to transmute metals into gold was originally a physical version of man's struggle to perfect himself.

"Science" and "religion" traveled hand and hand thru the ages for millenniums. Both scientists and priests were searchers after the truths of physical nature.

How then has this conflict arisen? It seems to have begun about the time of the renaissance when the suppressive forces of religious dogma which had governed man for over five hundred years were first challenged by inquiring minds. It has persisted with lessening force up until the last five years. And now in wide portions of the world, science has again been made the slave of dogma—although dogma which thinly conceals the motives of politics and personal venom.

WHY CHASTITY?

In recent years there has been a rising tide of words tossed back and forth as to the chastity of the present younger generation. Surveys have been made and refuted. Claims met by counter claims.

Very little of the discussion, however, has concerned itself with the most vital point of the whole furor. That point is establishment of the value of chastity. For the most part, those engaged in the above mentioned discussion have assumed without question that chastity is a most desirable virtue. Perhaps it is.

Perhaps it was, in the rather more simple civilization of several centuries ago. But marriage today is knocking its head against barriers of which our ancestors never dreamed; it is surrounded by influences, and practiced under conditions at once milder and at the same time infinitely more disruptive than those that beset the Elizabethans.

Both men and women today are forced by economic and psychological necessity to repress the normal mating urge until they are years older than the natural marriage age. Neurotic impulses are set up, and morals tend to become looser.

Chastity was a virtue when men and women were able to marry when they were mentally and physically of the proper age. There was far less repression, and so far less reason for violation of chastity. It was a sin, an unnecessary diversion of the sexual urge.

But is that violation a sin today? Complex modern life demands a preparation for marriage, a depth of emotional stability and maturity unparalleled in history. Is such emotional stability consistent with virginity? Is not the virgin still an untried adolescent? Is the male virgin properly prepared, in this age of shaky nerves, for a considerate handling of the technique of marriage? Authorities have said that many a marriage has been wrecked on the wedding night.

On the other hand, is mankind of an age that it can do without the restraining influences of a strict moral code? Promiscuity without much doubt produces disintegration and demoralization. From that viewpoint, chastity is a symbol of the imperfection of man, an artificial yet necessary restraint. And also from that viewpoint, might not discreet and controlled violation of chastity be a positive benefit, and not to be deplored?

THE FALLACY OF EXPERIENCE

It is a sad fact that as far as intelligence and mental agility are concerned, experience has very little effect. A person whose mind is active and inquiring is to a degree independent of time. Experience adds merely breadth and background. Conversely, the person who lives the animal life gets nothing from experience but a maze of uninterpreted facts and a batch of dogmatic opinions. He is no better company at fifty than he was at eighteen.

Age is not a criterion in choosing one's friends. It is far better to join up with lively intellect, regardless of age than be lured by the pseudo-knowledge and superficial film of an older but perhaps falser "sophistication".

The Tech regrets to announce the death Saturday night in the Homberg Infirmary of Willoughby Lee Taylor, '42, Course XVI.

SCIENCE IN BRIEF

by ARTHUR M. YORK, '38

ON MOONLESS NIGHTS

Until recent years it was assumed that the light from the sky on a moonless night came just from the stars. But it has been found that the combined light of all the stars, both visible and invisible, cannot possibly account for all the sky-light at night. The illumination from certain patches of the sky is as much as seven times what could be expected from the stars. Astronomers are not sure yet where all the additional light originates. Some of it can be accounted for by assuming that the light of the sun might be reflected from electrons, molecules, and cosmic dust floating around out in interplanetary space. Also it might be assumed that the higher atmosphere could be luminescent, similar to the northern lights. Another but less plausible theory is that the ultra-violet light of the sun dissociates oxygen molecules of the upper atmosphere and that the visible light emitted upon their association may be seen after dark. (1)

LIKE SUGAR-COATED PILLS

The latest news about vitamins is that a plan has been suggested for putting vitamin B-1 into candy and liquor as a protection against nervous disorders. Vitamin B-1 should be obtained by substituting whole wheat bread and cereals for white bread and refined cereals and by drinking less alcohol and eating less sugar. But, since humans are only human, it is felt that the vitamin should be put into the foods and beverages that are eaten and drunk. (2)

PEELING POTATOES

A scientific method of peeling potatoes has been developed for use in large restaurants where drudgery and waste have always attended the traditional manual method. The potato is thrust suddenly into a very hot flame (1750 degree, Fahrenheit) thus charring the peeling so that it can easily be washed off by a high-pressure water spray. The potato itself is unaffected because the application of heat is so sudden and of such short duration. (3)

For more complete discussion of the above items, consult recent periodicals as follows: (1) Science Progress, Jan., 1938, p. 111; (2) Science News Letter, Feb. 18, 1939, p. 104; (3) Scientific American, Mar., 1939, p. 105.

Reviews and Previews

Josef Hofmann, the masterly pianist whose career as virtuoso stands out as one of the most notable of his generation, announces a programme of great interest for his recital in Symphony Hall which will take place on Sunday afternoon, March 5th. He will play:

Harmonious Blacksmith Variations, by Handel; Pastorale e Capriccio, by Scarlatti; Moonlight Sonata, by Beethoven; Fantaisie Impromptu in C sharp minor, Valse in A flat major, and Nocturne in B major, by Chopin; Carnival, Opus 9, by Schumann; Waldesrauschen, Liebestraum in A flat major, and Memphis Valse, by Liszt.

COLONIAL Five Kings, Orson Welles production of a Shakespearean pageant of English history, opened here last night. This play revives the splendidly dramatic Falstaff, Henry V, Talbot, Richard III, and Prince Hal, later Henry V. It is a two weeks engagement.

EXETER — Now playing: Merle Oberon and Gary Cooper in *The Cowboy and the Lady*, with Charles Ruggles and Ona Munson in *His Exciting Night*. Starting Thursday: Margaret Lockwood and Paul Lukas in *The Lady Vanishes*, with Lew Ayres and Lionel Barrymore in *Young Dr. Kildare*.

LOEW'S STATE AND ORPHEUM
 Continuing here is *Idiot's Delight* starring Norma Shearer and Clark Gable. Also *My Son is a Criminal* with Alan Baxter.

SCOLLAY AND MODERN—Now playing here is Gary Cooper and Merle Oberon in *The Cowboy and the Lady*. Also Disbarred with Gail Patrick and Robert Preston.

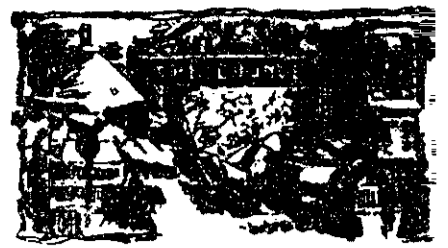
RKO BOSTON—*Son of Frankenstein* with Basil Rathbone and Boris Karloff. Also Charles Ruggles in *His Exciting Night*.

PARAMOUNT AND FENWAY — Dorothy Lamour and Lloyd Nolan in *St. Louis Blues*. Also J. Edgar Hoover's *Persons in Hiding*.

UNIVERSITY — Starting tomorrow, Leslie Howard and Bette Davis in *Of Human Bondage*. On the same program is Loretta Young and Robert Taylor in *Private Number*.

COOLIDGE CORNER — *The Cowboy and the Lady*, and *Smashing the Spy Ring* with Ralph Bellamy.

METROPOLITAN—Charles Laughton in *The Beachcomber* continues here. Also Charles Ruggles and Mary Boland in *Boy Trouble*.



Spring

The Lounger hereby officially opens the season for the use of the word "Spring" as a column caption.

What started it all was the sight of a little gray squirrel gambolling madly about in the rhododendron bushes in the great court. A very unintelligent squirrel at that. If he was looking for nuts he should have come indoors. There are thousands of us around the Institute.

The Inevitable

Recently the 802 course reached the subject of gravitation and as usual the lecturer described the calculation to determine the acceleration of the moon toward the earth. In the next recitation the instructor waited shudderingly for the inevitable question. Presently it came: "If that figure is true," quoth a puzzled inmate, "How long will it take to hit the Earth?"

Tangled Illusion

Spurred on by advertising of the "greatest picture made in Europe last year," the Lounger attended a showing of "Grand Illusion." We are confidentially of the opinion that part of the illusion was the advertising man's but there were, nevertheless, two very entertaining features. The first was the mixed dialogue of French, German, and English which made in part of the picture a pantomime for us. The second, and by far the more enter-

(Continued on Page 4)

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Tech Plays Tufts Tomorrow Night

Season Ends Against Strong Jumbo Team In Tech Hangar Gym

Tufts Has Victory Over Rhode Island

Game Will Decide Success Of Season For The Tech Quintet

Tomorrow night, the basketball team will close its season against one of New England's strongest teams when they meet Tufts in the hangar gym.

Five Wins and Four Losses

The team started the year out strong defeating a strong Harvard quint in the initial encounter. From Harvard they went on to defeat New Hampshire State but were defeated a week later in an off game with Trinity. After Trinity; Colby, Lowell Textile and Bates fell before the Tech quint. Since Mid-Years the team have failed to hit their stride and have dropped three straight games, losing to Boston University, Clark, and Brown. A victory over Tufts would mark success on the season as not in five years has a Tech quintet won more games than they have lost in a season.

Tufts Holds Victory Over Rhode Island State

The Tufts quint holds a victory over Rhode Island State which is generally considered to be the strongest team in New England. A victory for Tech would increase their rating in the minds of basketball enthusiasts. Tufts brings a strong offensive team led by Tibbs, their star center. Tibbs has averaged over twenty points in games played this year. The job of holding this man down will probably be given to Dick Wilson tall Tech center who has been playing an improved game of basketball throughout the season.

Team Loses to Clark

Last Friday night, the Tech team bowed to a Clark team in the Hangar Gym. Clark led from almost the beginning of the game and only in the early part of the second half did the Tech team threaten. The change of defense tactics baffled the Tech team throughout the game. Clark began the game playing a close game of defense and this caused no end of difficulty for Tech. At half time when Tech began to catch on to this defense, Clark switched a five man zone defense which again baffled the Tech team. Tech had had no experience in either of these defenses.

Frosh Floor Five Drops 34-24 Tilt With Tabor

Trailing the whole game, the Institute frosh floor quintet drew the short end of the 34-24 score with the Tabor Academy five last Saturday.

Waterhouse of Tabor led the scoring of the contest running up five goals and three free shots. He was closely followed by Artz of the Tech frosh who tallied one third of the Beaver's score by sinking four field goals.

Each squad completed four foul shots, Tech having nine personal fouls and Tabor having eleven. Stephanou and Hillhouse tied for second place in Tech scoring honors, each completing two goals and one foul shot.

The last game of the season's schedule will be played tomorrow night with the Tufts freshmen and the frosh will be out to win their third victory of the season.

Records Fall In Class Meet

Juniors Defeat Frosh In Inter-Class Meet; '41 Is Third

Breaking a long string of freshman victories in interclass meets, a spirited Junior squad, outnumbered almost three to one by the freshmen, won the Interclass Track Meet Saturday on the board track with 65½ points. The yearlings barely outscores 1941, 61½ to 58, while the Seniors trailed with 10.

Four Records Fall

Four interclass records fell during the afternoon. William R. Taylor, '40, cut H. G. Steinbrenner's 45 high hurdle 1926 mark of 6.2 seconds by a tenth of a second; John D. Silva, '42, turned in a new 50-yard dash record of 5.5 seconds, one-tenth better than the previous mark; John J. Nagle, 3d, '41, putted the shot ¼ of an inch farther than the record of 42 feet, 4¾ inches, set in 1931; and John W. Meier, '41, broke the 1925 37 feet, 2 inch 35-pound weight record with a throw of 40 feet 3 inches.

Crosby, Gow in Dead Heat Mile

Besides the four record breakers, eleven other winners earned a position on the permanent cups. In the most exciting race of the meet Dan Crosby, '40, and Art Gow, '42, finished the mile in a dead heat. Gow led most of the way but Crosby built up a slight lead with a few laps to go. As they shot into the gun lap, Gow turned on a powerful kick that carried him across the finish even with Crosby.

The only other first place tie was between Taylor and Hoffman in the 60-yard low hurdles. Crosby repeated by capturing the mile and a half, out-sprinting Stan Backer, '41, in the final lap. George Clark, '40, came through with the best time of three 300-yard heats to win the event in 34 flat.

Wood Beats Brady in 600

The 600 was a duel between Gene Brady, freshman sensation, and Bill Wood, '40. Wood made up for a slow start to slam home in 1:15.4, only two-tenths off the meet record. Bill Deering, '39, ran away with the 1000 in 2:28.6.

In the field events John Gilbert, '40, vaulted 11 feet 6 inches to win the pole vault; John Hamilton, '39, varsity captain, took the high jump from John Nagle by two inches in 5 feet 10 inches, and Robert Ford, '42, won the deciding event, the broad jump, with 20 feet 4 inches.

Junior Spirit Won Meet

Team spirit won the meet for the Juniors. Outnumbered 31 to 11 by the freshmen 1940 entered 2.55 events apiece and won by a margin of four points. It was a meet in which the presence of any good competitor would have given victory to his class—unless he was a senior. Only four Seniors competed and only two scored—Hamilton won the high jump and Deering the 1000.

High scorer for the meet was Frank Hoffman, '40, with 12½ points to his credit. Second was Silva with 12; third, Nagle with 10. Others in order were Crosby, '40, Taylor, '40, Clark, '40, Booth, '41, Jester, '41, and Gilbert, '40.

Frosh Trackmen Overwhelm Tufts

Brady, Silva Star As Tech Rides Far Ahead In Meet At Medford

Featuring the brilliant running of Eugene J. Brady, the Tech freshman track team routed the Tufts frosh 52-29 last Friday at Tufts. Brady won the 600 yard run in 1:16.6, the second fastest time ever run on the Tufts indoor track. The track record of 1:16.2 was established last year by a Tufts varsity man.

Johnny Silva continued his brilliant streak by taking two firsts and a second. The whole team continued in excellent shape and gives great promise for the future.

The results were as follows: T-Tech U-Tufts.

Low Hurdles—1, Wolfson (U); 2, Schultz (T); 3, Finn (U).
50 Yard Dash—1, Silva (T); 2, Valenti (U); 3, Edmunds (T).
275 Yard Dash—1, Silva (T); 2, Thompson (U); 3, Donhart (T).
600 Yard Run—1, Brady (T); 2, Valenti (U); 3, Bucken (U).
1000 Yard Run—1, Gow (T); 2, Emory (U); 3, Page (U).
Pole Vault—1, Eberhard (T); 2, Judd (T); and Morgenson (U).
High Jump—1, Knowles (U); 2, Ford (T); and Schultz (T).
Shot Put—1, Madwed (T); 2, Judd (T); 3, Cummings (U).

One man—Vernon Kyllonen, 40, competed in five events: two—John Nagle, '41, and Al Booth, '41, entered four apiece. Five Juniors, one Sophomore and five freshmen each competed thrice.

45 Yard High Hurdles—Time 61 s (new record), won by Taylor, '40; 2 Hoffman, '40; 3 Schultz, '42; 4 Deering, '42; 5 Jester, '41.

60 Yard Low Hurdle—Time 7.2, tie between Hoffman, '40 and Taylor, '40; 2 Jester, '41; 4 Kyllonen, '40; 5 Schultz, '42.

50 Yard Dash—Time 5.5 s (new record), won by Silva, '42; 2 Hoffman, '40; 3 Hensel, '41; 4 Jester, '41; 5 Clark, '40.

One Mile Run—Time 4:48.0, tie between Crosby, '40 and Gow, '42; 3 Warren, '42; 4 Gutttag, '40; 5 Strong, '42.

1½ Mile Run—Time 7:41.8, won by Crosby, '40; 2 Backer, '41; 3 Hayden, '41; 4 Wallace, '41; 5 Dennen, '42.

300 Yard Dash—Time 34.0, won by Clark, '40; 2 Silva, '42; 3 Booth, '41; 4 Jester, '41; McBride, '42, 34.8.

600 Yard Run—Time 1:15.4, won by Wood, '40; 2 Brady, '42; 3 Clark, '40; 4 Kyllonen, '40; 5 Little, '41.

1000 Yard Run—Time 2:28.6, won by Deering, '39; 2 Corsa, '41; 3 Kelly, '42; 4 Jott, '41; 5 Gutttag, '40.

Pole Vault—Ht. 11' 6", won by Gilbert, '40; 2 Eberhard, '42; 3 Judd, '42; 4 Jerome, '41; 5 Nagle, '41.

Broad Jump—Distance 20' 4", won by Ford, '42; 2 Booth, '41; 3 Silva, '42; 4 Gilbert, '40; 5 Smith, '42.

35 Pound Weight—Distance 49' 3" (new record), won by Meier, '41; 2 Van Greenby, '41; 3 Baresd, '42; 4 Morehouse, '40; 5 Volanakis, '42.

Shot Put—Ht. 5' 10", won by Hamilton, '39; 2 Nagle, '41; 3 Power, '42; 4 Schultz, '42; Booth, '41.

Meet Results—1940, 65½; 1941, 61½; 1941, 58; 1939, 10.

Tech Skiiers Are Third In Norwich Carnival Contest

Aschaffenburg And Rustad Take High Honors For M.I.T. Team

Placing behind Maine and Norwich Universities, the Technology Ski Team garnered third honors in the Intermediate Intercollegiate Ski Championships at the Norwich Carnival held at Northfield, Vermont on Friday and Saturday, Feb. 24 and 25.

Tech had a total of 382.1 points as compared to Maine's 478.8 points and Norwich's 411.2 points, while Bates placed fourth with 355.8 points and Colgate placed fifth with 312 points.

Consisted of Five Events

The meet consisted of five events, the slalom, jumping, cross-country, the downhill, and the combined jumping and cross-country events.

Olaf Rustad, '40, garnered individual honors, placing among the first thirteen in all five events. Frank McClintock, '42, also was outstanding.

Skiing

(Continued on Page 4)

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Dartmouth Beats Fencers By Point

Adelson Leads Team As They Lose A Thriller By 14-13

Coming out one point behind in a closely fought match, the Technology swordsmen dropped their meet with Dartmouth at Hanover, N. H. last Saturday by a score of 14-13.

Adelson of Tech took the top scoring honors of the meet, carrying off three wins and one draw. Meyer of Dartmouth and Sherburne of Tech tied for second place scoring honors, each capturing two wins and one draw.

The Beavers showed up particularly well in the epee class totaling three wins and two draws as opposed to one win and two draws tallied by Dartmouth.

FOLDS—Deming (D) defeated Sherburne (M.I.T.) 5-4; and Bech (M.I.T.) 5-3; Bernstein (D) defeated Bech (M.I.T.) 5-4; Adelson (M.I.T.) defeated Deming (D) 5-4; Bernstein (D) 5-1; and Strauss (D) 5-3; Sherburne (M.I.T.) defeated Bernstein (D) 5-3 and Strauss (D) 5-4.

EPEES—Meyer (D) defeated Adelson (M.I.T.) 3-1; and Bech (M.I.T.) 3-2; Burke (D) defeated Bech (M.I.T.) 3-2; and Sherburne (M.I.T.) 3-1; Meyer (D) and Sherburne (M.I.T.) drew; Burke (D) and Adelson (M.I.T.) drew; Adelson (M.I.T.) defeated Pellington (D) 3-1; Bech (M.I.T.) defeated Pellington (D) 3-1; Sherburne (M.I.T.) defeated Spiller (D) 3-1.

SABRES—Blake (D) defeated Postman (M.I.T.) 5-3; Bech (M.I.T.) 5-1 and Adelson (M.I.T.) 5-2; Meyer (D) defeated Postman (M.I.T.) 5-3; Bethune (D) defeated Postman (M.I.T.) 5-3; Adelson (M.I.T.) defeated Bethune (D) 5-3 and Meyer (D) 5-3; Bech (M.I.T.) defeated Meyer (D) 5-5.

Generator

(Continued from Page 1)

generator will be used at the institute's laboratory, where its construction was made possible by a grant of \$15,000 from the Godfrey M. Hyams Trust. It will be used for engineering investigations, physical measurements, and biological studies.

Operating at full capacity, this unit produces X-radiation of a quality approaching that of the very effective gamma-rays of radium. One of the goals of this research is to develop high-voltage apparatus which will actually exhibit the penetrating powers of these gamma rays.

Works In Sealed Tank

The generator, which operates in a sealed tank, is only three feet wide and nine feet high. Gases under pressure are used as the insulating medium. The X-ray tube is fixed vertically inside the machine, the electrical charge being carried to the domed high-voltage terminal at the top of the apparatus by an endless belt traveling at a speed of nearly a mile a minute. Brass rings encircling the machine grade the voltage between the terminal and the ground, thus preventing sparking.

Goes To Massachusetts Hospital

The George Robert White Memorial Building, now being constructed at the Massachusetts General Hospital, will use the machine in its tumor clinic. Already in hospital operation is a 1,000,000 volt generator, designed by the same men and installed in 1937 at the Huntington Memorial Hospital in Boston.

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CALENDAR

TUESDAY, FEBRUARY 28

- 5:00 P.M. Freshman Pistol Team—West Lounge.
- 5:00 P.M. M.I.T. A.A. Meeting—East Lounge.
- 6:00 P.M. Mr. Sprague's Dinner—Silver Room.
- 6:00 P.M. T.C.A. Dinner—Faculty Room.
- 6:30 P.M. Alpha Chi Sigma Dinner—North Hall.
- 7:00 P.M. Orchestra Rehearsal—East Lounge.

WEDNESDAY, MARCH 1

- 5:00 P.M. Physical Society Meeting—Room 4-370.
- 5:00 P.M. Gridiron Meeting—East Lounge.
- 6:00 P.M. Swim Club Dinner—Faculty Room.
- 6:00 P.M. Senior House Dinner—North Hall.

THURSDAY, MARCH 2

- 5:15 P.M. C.S.O. Meeting—Room 10-200.
- 6:30 P.M. A.G.C. Dinner—North Hall.
- 6:30 P.M. Class 1915 Dinner—Faculty Room.
- 6:30 P.M. Society of Military Engineers—Grill Room.
- 7:30 P.M. A.I.Ch.E. Meeting—Dutch Room.

Co-ed

(Continued from Page 1)

plied by the name Domina before he was rewarded with the information that she was really a she.

Even after the installation of the Big-Little Sister system by the Women's Association, there was a mix-up of advisers when Verna Jenner decided to come to Technology. On the arrival of her name at the registration office, it was handed to the T.C.A. as a boy's name and to the Women's Association as a girl's. Word finally leaked out concerning two letters going to the same person, so the two advisers placed a bet as to just which sex the freshman would belong. The question was solved rather conclusively when the newcomer showed up at the tea held for co-eds by the Women's Association.

Woman's Association Now Advises

Since the founding of the Technology Women's Association, however, the representative body for the women students, the advisory duties that were formerly carried on by the T.C.A. are now handled through a Big-Little Sister arrangement in which each incoming freshman girl is assigned to an upperclass co-ed who takes charge of finding suitable living quarters and giving any necessary advice.

The Women's Association was established two years ago in order to secure women's rights in student activities and sports. The headquarters of the organization is located in the Margaret Cheney room; members also have the use of the Emma Rogers room.

Skiing

(Continued from Page 3)

competing in four out of the five events.

Rustad Places Fourth

In the Cross-country event, Rustad placed fourth, Rosenberg was sixth, McClintock was fifteenth, and Simon was seventeenth.

The rest of the individual accomplishments are as follows:

SLALOM

- 1—Robert Ireland, Bates 119.3
- 2—Hans Aschaffenburg, M.I.T. 123.0
- 3—Gordon Fowler, Norwich 126.0
- 4—William Bower, Maine 129.2
- 5—Wendell Parker, Norwich 130.2
- 6—Charles Horton, Norwich 133.2
- 7—Ralph Woodbury, Maine 134.5
- 8—Oscar Riddle, Maine 135.1
- 9—Julian Thompson, Bates 138.1
- 10—Olaf Rustad, M.I.T. 140.1

JUMPING

- 1—John Greenwood, Maine 215.4
- 2—John Bower, Maine 192.4
- 3—Clark Gates, Norwich 190.1
- 4—William Bower, Maine 188.8
- 5—Oscar Riddle, Maine 181.0
- 6—Leon Green, Maine 177.9
- 7—Julian Thompson, Bates 173.9
- 8—Charles Horton, Norwich 172.0
- 9—Frank McClintock, M.I.T. 170.8
- 10—George Brough, Colgate 156.5

Combined Jumping and Cross-Country

- 1—John Bower, Maine 430.4
- 2—William Bower, Maine 428.8
- 3—Charles Horton, Norwich 409.6
- 4—Clark Gates, Norwich 402.7
- 5—Oscar Riddle, Maine 379.2
- 6—Olaf Rustad, M.I.T. 270.7
- 7—Wendell Parker, Norwich 357.8
- 8—Leon Green, Maine 357.0
- 9—Frank McClintock, M.I.T. 256.0
- 10—Gordon Fowler, Norwich 350.1

Final team scores—Maine 478.8; Norwich 401.2; M.I.T. 382.1; Bates 355.8; Colgate 312.0.

Lounger

(Continued from page 2)

taining, was the German count in the picture who acted as a jailkeeper for the hero. The jailkeeper's acting was good and he bore a startling resemblance to our chemistry professor who proudly titles himself "Baldy Joe".

Co-ed Luck

The gambling instinct overcame one of our more staid and scholastically lucky students the other night and he decided to try his luck at roulette in a private game for no visible stakes. Figuring that the bank can't lose, he gladly consented to accept the position of proprietor. An unlucky, scholastically, student won away the bank in ten minutes and sold it back to our hero. Again he tried, and again he

lost to his less able colleague. I attempted the betting end for a while but had even worse luck. As bank he lost to a girl who had never played before. She gave it back to him and, by reversing the spin of the wheel, he managed to make money (theoretically) for an hour and a half when he lost to another inexperienced girl five minutes after she entered the game. He gave up then, having suffered a paper loss of about fifty bucks. He's never going to gamble again.

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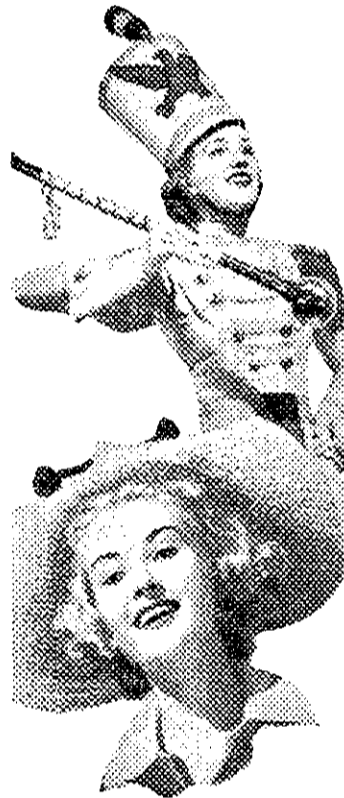
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