

THE TECH



OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXII, NO. 1 5 CENTS CAMBRIDGE, MASS., TUESDAY, FEBRUARY 5, 1952

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Institute Phone System One of Largest in N.E. Dr. Hazen Named Grad School Head; Will Succeed Retiring Dean Bunker

A new manual telephone switchboard, the first of its kind in New England, was formally opened at the Institute on January 26 with a coast-to-coast telephone call from President Joe E. Harrell of the New England Telephone & Telegraph Company in Cambridge to President James R. Killian, Jr., who was in Los Angeles attending a meeting of the M.I.T. Club of Southern California.

The new switchboard and its additional dial lines, which were inaugurated before more than 200 representatives of the Institute and the telephone company, gives the Institute one of the largest private-branch exchange switchboards in the New England Company.

Technical Skill Has Aided Advancement

In opening the new system Mr. Harrell said, "In the telephone business during the last five years we have had to meet the greatest demand for telephone service ever experienced in our history. Yet, in addition to serving three-quarters of a million more telephones here in New England, we have made significant advances in the speed and quality of service.

"Like so many scientific achievements, our new developments can be traced back to the technical skill demonstrated in the research that has been carried on by so many young Americans from schools like M.I.T."

Features of the new switchboard include automatic ringing by the operator, recall of the operator by a flashing lamp operated by a single touch of the handset, and direct dialing of calls to connect branch systems in the area. In describing the new facilities to the audiences, Professor Carlton E. Tucker, Executive Officer of the Department of Electrical Engineering, stated

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Prof. Buerger Chosen Foreign Member of Brazil Science Acad.

Dr. Martin J. Buerger, professor of mineralogy and crystallography at the Institute, has been chosen a Foreign Member of the Brazilian Academy of Sciences.

A letter of election stated that Professor Buerger had been chosen by the General Assembly in consideration of his "valuable contribution to science and most helpful collaboration with Brazilian research workers."

Professor Buerger has collaborated in crystallography with Professor Elysiario Tavora of the Faculty of Philosophy of the University of Rio de Janeiro, who did research at the Institute under a Guggenheim Fellowship in 1947, and with Professor Rui Franco of the University of Sao Paulo (Polytechnic School). In 1948 Professor Buerger gave a series of lectures on crystallography at the University of Rio de Janeiro to inaugurate a program in crystallography there.

Dr. Buerger, who has been associated with the Institute since his graduation in 1925, has achieved a world-wide reputation for his developments of new techniques and instruments in x-ray experimentation and for application of x-rays to the study of crystalline solids.

His achievements have been recognized by his election to the presidency of the Crystallographic Society in 1939, the Society of X-ray and Electron Diffraction in 1943, and the Mineralogical Society in 1947.

Foundation Grant Establishes New EE Professorship

A grant of \$400,000 to the Institute from the Edwin Sibley Webster Foundation to establish an Edwin Sibley Webster Professorship of Electrical Engineering was announced on January 31 by Dr. Karl T. Compton, Chairman of the Corporation.

The announcement of the new professorship, which becomes the first endowed chair in the Department of Electrical Engineering was made before more than 500 alumni at the Mid-Winter Meeting of the M.I.T. Alumni Association in Walker Memorial.

"This endowed professorship is a particularly appropriate memorial to Mr. Webster," Dr. Compton said, "for he was one of the earliest students in M.I.T.'s electrical engineering course. He also formed with his classmate, Mr. Charles Stone, the first electrical engineering consulting firm, which later became the national organization of Stone & Webster, Inc."

Mr. Webster's Special Interests In the Institute

Dr. Compton pointed out that Mr. Webster exhibited a special interest not only in the department of electrical engineering but in seeing that the Institute moved toward an adequate endowment for its educational program. Dr. Compton also recalled that it was due in large part to Mr. Webster's enthusiasm over aeronautical engineering in its infancy that the Institute took its first steps in establishing the first course in aeronautical engineering in the United States.

Mr. Webster was president of the alumni association in 1909, a member of the alumni council and president of the class of 1888. The Stone & Webster firm constructed the central group of Institute buildings in Cambridge and Mr.

(Continued on Page 4)

Astronomer To Give Illustrated Galaxies Lecture

Dr. Harlow Shapley will lecture with illustrated slides on "Galaxies." His talk, sponsored by LSC, will be given in Room 10-250 at 5 p.m. on Wed., Feb. 6.

Dr. Shapley is well known not only for his many outstanding technical discoveries and papers but also for his efforts in promoting international understanding, his promotion of education in astronomy, and his original views on many vital human problems.

He received his Doctorate from Princeton in 1913, and began to receive professional recognition in 1914, his first year at the Mount Wilson Observatory in California. At that time, he advanced his now famous theory on the pulsation of the so-called "Cepheid Variable" stars. This initial success was followed by many other important discoveries during the seven years Dr. Shapley remained at the Mount Wilson Observatory.

Since 1921, Dr. Shapley has been director of the Harvard Observatory, which has become one of the most important astronomical centers in the world under his leadership. His work has been recognized by many honorary degrees from colleges here and abroad; he is an honorary member of ten National Academies. Among his popular books are "Galaxies" and "Treasury of Science."

Graduate, Senior Get Rhodes Scholarships

Carl A. Shiffman, a senior in Course VIII, and Arthur A. Wasserman '51, who is now a graduate student in Course X, have been awarded Rhodes Scholarships in the 1951 competition, it has been announced by Professor Walter H. Stockmayer, Institute Representative for The Rhodes Scholarships.

Both Shiffman and Wasserman, who were among the thirty-two winners chosen from competitive examinations held in all the states, are eligible for at least two years' study at Oxford University.

Dr. Harold L. Hazen, Head of the Department of Electrical Engineering since 1938, will become Dean of the Institute's Graduate School next July, Pres. James R. Killian, Jr., announced on January 16.

Dr. Hazen will succeed Dr. John W. M. Bunker, who has been Dean of the Graduate School since 1940. Dr. Bunker, who joined the Institute's staff in 1921 as an assistant professor of physiology and biochemistry in the Department of Biology, will retire at the end of the academic year.

Received Institute Degrees

Dr. Hazen was born in Philo, Illinois, in 1901, and received from the Institute the degrees of bachelor of science (1924), master of science (1929), and doctor of science (1931). He worked in the Schenectady and Pittsfield laboratories of the General Electric Company before joining the Institute staff in 1925 as a research assistant, and subsequently obtained experience with both the American Telephone and Telegraph Company and the Raytheon Manufacturing Company. He was named instructor in electrical engineering in 1926, and assistant professor in 1931. During 1934-35 he was appointed to the faculty of Ohio State University in the first of the Institute's exchange professorships. Dr. Hazen became an associate professor in 1936, was placed in charge of the department's graduate study and research from 1937-38, and was promoted to full professor and Head of the Department of Electrical Engineering in 1938.

Dr. Hazen has cooperated in the design and construction of several important electrical devices, including the network analyzer, upon which power systems are reproduced in miniature for the solution of electrical engineering problems. He was also associated with the development of the differential analyzer, which was designed by Dr. Vannevar Bush.

Education Commission Head

During July and August of 1951 Dr. Hazen headed a Commission on Engineering Education which visited Japan for consultation with the Japanese Ministry of Education, as well as educators and administrators of engineering colleges there. This Commission, consisting of fifteen of the nation's leading

(Continued on Page 4)

4th College-Industry Conference Discusses Engineer As Individual

About 500 representatives from New England colleges and industry attended the fourth College-Industry Conference, sponsored by the Relations with Industry Division of the American Society for Engineering Education and held here at the Institute on Saturday. This year's conference was the first to be held in the New England area.

The conference theme was "The Engineer as an Individual." Opening addresses were given by Dr. Karl T. Compton, Chairman of the Corporation, and Dean S. C. Hollister of Cornell University, who is President of the American Society for Engineering Education.

Engineer's Training Discussed

Principal addresses of the morning session were given by Dr. Morris Meister, Principal, Bronx High School of Science, who discussed the secondary school aspects of the engineers' training; Dr. Jess H. Davis, President of Stefens Insti-

(Continued from Page 4)

NEW SAILBOAT

Drawings of a new sailboat designed to replace the forty original boats built in 1935 for the Nautical Association were displayed on February 2 at a meeting of the New England Intercollegiate Sailing Association at the Graduate House.

The lines of the new boat, which it is hoped will be ready for use next fall, were drawn by Professor Emeritus George Owen and are similar to those of the original dinghy.

New Gallery Shows Retrospective Exhibit of Works By Karl Zerbe

A one-man retrospective exhibition of Karl Zerbe will be on display in the New Gallery of the Charles Hayden Memorial Library until February 11. The exhibition is open Monday through Friday, 10:00 a.m. to 5:00 p.m.

Karl Zerbe was born in Berlin in 1903 but grew up in Paris and travelled in Italy. He had a well-founded reputation in Europe before coming to America in 1934 as an exile from Nazi Germany. He has been head of the Painting Department of the Boston Museum School since 1937.

The artist has experimented in numerous unusual media including lacquer and encaustic, a method of painting with heated wax, and various forms of tempera. More recently he has been working in an entirely new medium, polyvinyl acetate, called polymer tempera.



"Emmett Kelly," a work by Zerbe

This medium produces results similar to encaustic without the problem of applied heat. The artist has used this new medium for seven of the paintings in this exhibition.

Works Widely Exhibited

Zerbe has exhibited his works widely throughout this country and Europe and is represented in the collections of the Fogg Museum at Harvard, the Whitney Museum of American Art and the Metropolitan Museum of Art in New York, the Art Institute of Chicago, Detroit Institute of Arts, Los Angeles County Museum, City Art Museum of St. Louis as well as many others. His painting is included in the permanent collection of the Institute. The painting "Emmett Kelly" was acquired recently by the Institute through the gift of Mr. and Mrs. George W. W. Brewster.

The Tech

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CALENDAR OF EVENTS

FEBRUARY 6 TO FEBRUARY 12, 1952

WEDNESDAY, FEBRUARY 6

Electrical Engineering Department. Colloquium: "The Solution of Industrial Problems by Electric Analogue Computers." Dr. E. L. Harder, Westinghouse Electric Corporation, Pittsburgh, Pa. Room 6-120, 4:30 p.m. Refreshments at 4:00 p.m. in Room 6-321.
 Inter-Varsity Christian Fellowship. Lecture: "Christ is Lord." Mr. John Weston. Room 7-104, 5:00 p.m.
 Chemistry Department. Harvard-M.I.T. Physical Chemistry Colloquium: "Some Kinetic Problems in the Upper Atmosphere." Professor P. Harbeck, Rensselaer Polytechnic Institute. Room 6-120, 8:00 p.m.

THURSDAY, FEBRUARY 7

Chemistry Department. Spectroscopy Seminar: "Regularities in the Ultraviolet Spectra of Large Molecules." Professor J. R. Platt, University of Chicago. Room 6-120, 3:00 p.m.
 Physics Department. Colloquium: "The Radioactive Decay of the Neutron." Dr. John M. Robson, Chalk River Laboratory, Canada. Room 6-120, 4:15 p.m.
 Hillel Society. Film and Lecture: "World Jewish Problems Today." Room 10-250, 5:00 p.m.
 Lecture Series Committee. Film: "Man Hunt." Room 10-250, 5:00 and 8:00 p.m. Admission 40¢.

FRIDAY, FEBRUARY 8

Aeronautical Engineering Department. Seminar: "James Forrestal Research Center." Professor D. C. Sayre, Princeton University. Room 33-319, 4:00 p.m. Coffee from 3:30-4:00 p.m. in the DuPont Room.
 Mechanical Engineering Department. Seminar: "Vibrations in Blading of Turbo Machinery." Professor C. Richard Soderberg. Room 3-370, 4:00 p.m. Coffee from 3:30-4:00 p.m. in Room 3-174.

SATURDAY, FEBRUARY 9

Hillel Society. Acquaintance Dance for Members. Burton Lounge, East Campus, 8:00 p.m.

MONDAY, FEBRUARY 11

Pershing Rifles. Business Meeting and Elections. Room 4-370, 5:00 p.m.

TUESDAY, FEBRUARY 12

Lecture Series Committee. Lecture: "Prospects for Stability under the Defense Mobilization Program." Mr. A. H. Hansen. Room 10-250, 5:00 p.m.
 Christian Science Organization. Subject: "Freedom." Tyler Lounge, 5:15 p.m.

EXHIBITION

Photographic Salon prints by Alfred Watson of Buffalo, New York, are on display in the Photographic Service Gallery, Basement of Building 11, through February 12.

CALENDAR OF EVENTS

The Calendar of Events appears in THE TECH on Tuesdays with announcements for the following week. Notices, typewritten and signed, must be in the Office of the Editor, Room 7-204, not later than noon on Thursday prior to the date of publication. Material for the Calendar of February 13-February 19 is due February 7.

EDITORIAL

TO START THE TERM

With this issue a new Managing Board takes charge of THE TECH.

We shall keep the Institute community informed of news promptly and accurately. We shall emphasize the importance of athletics at the Institute by devoting more staff and more front page space to sports events. We shall keep feature material interesting, varied and aimed at stimulating reflection.

Finally we urge anyone forming part of this community who has a grievance or a brainwave to set it down in words however crude and address them to the Editor, who will transmit them to the Institute community in these pages. It is our privilege and your duty.

Classes began to-day and we wish all a successful Spring term.

Letter to the Editor

Editor, THE TECH

Dear Sir:

The M.I.T. Committee for the Red Feather Campaign desires through your columns to thank the students, the staff and the employees of the Institute for their splendid cooperation and for their generosity to the United Community Services of Greater Boston. Solicitation, always a difficult task, was splendidly performed. The response was liberal. The central office of the United Community Services in Boston joins with us in this expression of gratitude.

When the books of the Technology campaign were finally closed last month, the Institute group had contributed more than 93 per cent of the quota assigned to it. Approximately 2,375 students contributed to the T.C.A. drive last fall, and the T.C.A. pledged to the United Community Services one-tenth of its collections from this source. This gift is expected to yield about \$430 for the Red Feather services. Direct contributions to the amount of \$14,757.40 were received from 2,124 members of the teaching staff, while 534 employees loyally gave \$1,277. Directly or indirectly therefore no less than 5,033 members of the Institute family contributed to the Red Feather fund, and their contributions totalled \$16,464.40. The quota set for the Institute in

this campaign was \$17,543.00, and this quota was fair in the light of the amounts asked from other groups. Your chairman must therefore confess failure; but it was a failure that has left him proud of the Institute community and of his co-workers, especially the solicitors who, as always, carried the real burden of this drive.

During the last twenty years contributions to the Red Feather Campaigns have grown; but needs have grown even more rapidly than gifts. Hospitals now constitute the largest group in the United Community Services, if size is measured by the amount of money received from this fund. The number of days spent in a hospital by the average patient has declined in striking fashion. Causes of this decline include the advance of medical science, and the availability of new hospital techniques as well as the fact that the Blue Cross and other influences now permit many patients with rather minor ailments to enter hospitals. The average patient entering a hospital now pays a smaller total charge than was paid by the patient of a generation ago; but to the hospital the average cost per patient per day has been increased by these new techniques as well as by the rise of all prices.

Professor DONALD S. TUCKER
 January 25, 1952

Naval Reserve

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be accepted up to February 21. Residents of the Greater Boston area may file at First Naval District Headquarters. Others may apply at the Naval Reserve Training Center nearest their home.

Women candidates will be trained this year at the U. S. Naval Training Center, Bainbridge, Maryland. Location of the training school for male candidates will be announced later.



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Mile Relay Team Wins Pair, New Frosh High Jump Star

A pair of victories by the Technology mile relay team and the sudden emergence of a new high jump star in the person of Freshman Bill Antoine of Roxbury highlighted three weeks of indoor track activity during the exam and vacation periods.

The mile relay quartet won successive victories in the Boston Knights of Columbus Meet at the Boston Garden before bowing in Boston Garden and the Millrose Games at Madison Square Garden before bowing in the Boston Garden E.A.A. meet. Ken Childs, George Grenier and Ian Williams formed the team which turned in a final time of 3:29.5 in the opener. Tufts was second, with RPI third and Springfield last.

In the Millrose meet the same quartet cut their time to 3 minutes 29.4 seconds to win their second straight, with Iona second, Adelphi third and City College of New York fourth. Last Saturday evening they lost for the first time, as a strong Providence college quartet raced to a 3:25 finish with Holy Cross, Brown and Tech following in that order.

Antoine Tops Record

Antoine first came into local

prominence by winning the Boston Y.M.C.A. handicap meet with a 6' 4" jump, the highest of his career. In the K. of C. meet he tied for second place with a 6' 2" mark, topped only by Gerry Ferrara of Rhode Island State. He topped 6' 2" again in the Millrose event although failing to place and last Saturday cleared the bar at 6' 3 1/4" to tie John Vislocky of the N.Y.A.C. for third place, with Ferrara finishing fifth. The event was won by John Hall, national high jump champion from the University of Florida, who made a 6' 6 1/2" leap but missed his try for the meet record. In all four of the meets Antoine surpassed the Freshman record of 6' 0".

Two-Mile Team Takes Third

A two-mile relay team made up of Clyde Baker, Bill Nicholson, Jack Farquhar, and Chuck Vickers took third place behind Yale and Providence in the K. of C. meet, with Harvard fourth. The winning time of 7:56.4 was second best of the night. The Engineer quartet finished in about 7:59.

In the B.A.A. meet Vickers dropped from the group to run in the William Bingham Invitation 880 but finished fourth after leading on the next to last lap. Walter Molineaux of Brown fought off a stretch drive by B.U.'s Willy Smith to take first, with Bob Tiernan of Providence third. Captain Sam

(Continued on Page 4)

Six Team Field Set For 1952 Intramural Basketball Playoffs

By BOB EHLERT

Baker House and Phi Sigma Kappa won the right to join four other teams in the finals of the basketball tournament by beating rivals in playoff games the last week before vacation.

In a lopsided contest Baker House defeated Phi Kappa Sigma for the third straight time as Elmer Selby scored 19 points. The height of the winners once more proved too much and the 58-34 score indicated the nature of the game. Playing without John Mattson, sidelined with a serious shoulder ailment, Phi Kappa Sigma was behind 12-2 at the first quarter and never in the game even though Ken Wagner scored 12 points. Gino Scalandre contributed 11 to the Baker House total.

Phi Sigma Wins 43-32

John Pease and Dick Engelken paced Phi Sigma Kappa to an easy 43-32 win over Delta Kappa Epsilon to win the title after the Dekes apparently had it clinched. The eleventh-hour reversal of the decision on a November game which the Phi Sigs had apparently lost put them into a tie with DKE and forced the playoff. Dave Cravens played for the losers after being out most of the season; Glen Maxon, Ed Shea, and Von Sowers

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Rifle Team Captures Five Matches On Southern Tour, Trails Maryland, St. John's

Traveling during the mid-term vacation, the Technology varsity riflemen picked themselves up from a disappointing start to climax a ten-day southern trip by setting a new range record at the U. S. Naval Academy last Saturday. The win over Navy, coupled to wins over George Washington University, Virginia Military Institute, the University of Tennessee, and Rutgers University, gave the Techmen a 5-2 record for the tour. In the only other match of the season to-date, that at Boston University in November, the new Tech team had lost to a new B. U. record, 1396 to 1401.

The riflemen's first match of the tour took place at Rutgers University just two days after the end of the final examination period, when the Beavers took on Rutgers and St. John's University in a triangular match. The St. John's marksmen, currently leading the New York Metropolitan League in scoring, edged out the Techmen by a 1409 to 1406 score. Rutgers came in as a poor third in the match with a score of 1339.

Journeying to the University of Tennessee, the Beavers gave the Volunteers the first defeat on their home range in three years, by a 1419 to 1404 margin. The Beaver

score bettered by three points the former Tennessee range record, fired by the Vols in the 1951 Inter-collegiate to give them a second-place national ranking.

The Techmen found the Virginia Military Institute team to be weaker than expected, and, in spite of a slump in the Tech scores, the Beavers' 1401 set a new range record and a win over the VMI 1330.

Next for the Engineers was the University of Maryland, the only team to defeat Technology in varsity competition during the 1951 season. The Terps gave the Engineers another eight-point loss when they fired 1435, only five points below the highest-known all-time college score of 1440, to the Engineers' 1427.

George Washington University fell to the Techmen by a 1403 to 1415 count on the same day as that of the Maryland match. The high Tech average of over 280 for all nine shooters was one of the most encouraging results of the entire trip, and indicated a high potential for Tech riflery for several years to come.

The brightest event of the whole trip was the final match at Navy, when the Beavers dropped the Middies from the undefeated ranks.

(Continued on Page 4)

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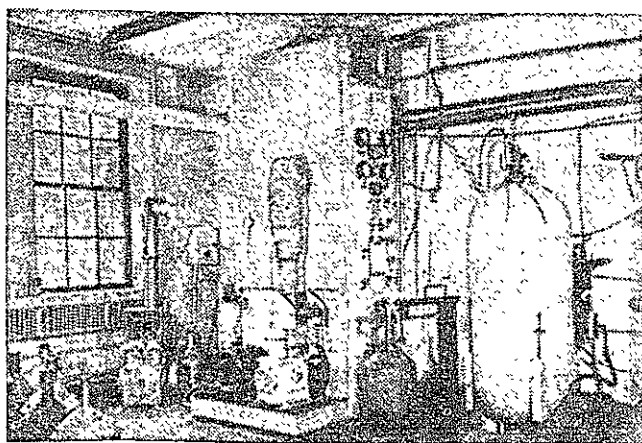
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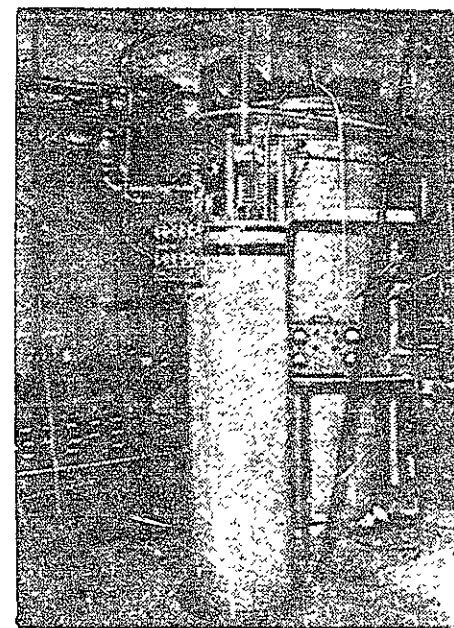
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CALENDAR OF EVENTS

FEBRUARY 6 TO FEBRUARY 12, 1952

WEDNESDAY, FEBRUARY 6

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 Inter-Varsity Christian Fellowship. Lecture: "Christ is Lord." Mr. John Weston. Room 7-104, 5:00 p.m.
 Chemistry Department. Harvard-M.I.T. Physical Chemistry Colloquium: "Some Kinetic Problems in the Upper Atmosphere." Professor P. Hartek, Rensselaer Polytechnic Institute. Room 6-120, 8:00 p.m.

THURSDAY, FEBRUARY 7

Chemistry Department. Spectroscopy Seminar: "Regularities in the Ultraviolet Spectra of Large Molecules." Professor J. R. Platt, University of Chicago. Room 6-120, 3:00 p.m.
 Physics Department. Colloquium: "The Radioactive Decay of the Neutron." Dr. John M. Robson, Chalk River Laboratory, Canada. Room 6-120, 4:15 p.m.
 Hillel Society. Film and Lecture: "World Jewish Problems Today." Room 10-250, 5:00 p.m.
 Lecture Series Committee. Film: "Man Hunt." Room 10-250, 5:00 and 8:00 p.m. Admission 40¢.

FRIDAY, FEBRUARY 8

Aeronautical Engineering Department. Seminar: "James Forrestal Research Center." Professor D. C. Sayre, Princeton University. Room 33-319, 4:00 p.m. Coffee from 3:30-4:00 p.m. in the DuPont Room.
 Mechanical Engineering Department. Seminar: "Vibrations in Blading of Turbo Machinery." Professor C. Richard Soderberg. Room 3-370, 4:00 p.m. Coffee from 3:30-4:00 p.m. in Room 3-174.

SATURDAY, FEBRUARY 9

Hillel Society. Acquaintance Dance for Members. Burton Lounge, East Campus, 8:00 p.m.

MONDAY, FEBRUARY 11

Pershing Rifles. Business Meeting and Elections. Room 4-370, 5:00 p.m.

TUESDAY, FEBRUARY 12

Lecture Series Committee. Lecture: "Prospects for Stability under the Defense Mobilization Program." Mr. A. H. Hansen. Room 10-250, 5:00 p.m.
 Christian Science Organization. Subject: "Freedom." Tyler Lounge, 5:15 p.m.

EXHIBITION

Photographic Salon prints by Alfred Watson of Buffalo, New York, are on display in the Photographic Service Gallery, Basement of Building 11, through February 12.

CALENDAR OF EVENTS

The Calendar of Events appears in THE TECH on Tuesdays with announcements for the following week. Notices, typewritten and signed, must be in the Office of the Editor, Room 7-204, not later than noon on Thursday prior to the date of publication. Material for the Calendar of February 13-February 19 is due February 7.

EDITORIAL

TO START THE TERM

With this issue a new Managing Board takes charge of THE TECH.

We shall keep the Institute community informed of news promptly and accurately. We shall emphasize the importance of athletics at the Institute by devoting more staff and more front page space to sports events. We shall keep feature material interesting, varied and aimed at stimulating reflection.

Finally we urge anyone forming part of this community who has a grievance or a brainwave to set it down in words however crude and address them to the Editor, who will transmit them to the Institute community in these pages. It is our privilege and your duty.

Classes began to-day and we wish all a successful Spring term.

Letter to the Editor

Editor, THE TECH

Dear Sir:

The M.I.T. Committee for the Red Feather Campaign desires through your columns to thank the students, the staff and the employees of the Institute for their splendid cooperation and for their generosity to the United Community Services of Greater Boston. Solicitation, always a difficult task, was splendidly performed. The response was liberal. The central office of the United Community Services in Boston joins with us in this expression of gratitude.

When the books of the Technology campaign were finally closed last month, the Institute group had contributed more than 93 per cent of the quota assigned to it. Approximately 2,375 students contributed to the T.C.A. drive last fall, and the T.C.A. pledged to the United Community Services one-tenth of its collections from this source. This gift is expected to yield about \$430 for the Red Feather services. Direct contributions to the amount of \$14,757.40 were received from 2,124 members of the teaching staff, while 534 employees loyally gave \$1,277. Directly or indirectly therefore no less than 5,933 members of the Institute family contributed to the Red Feather fund, and their contributions totalled \$16,464.40. The quota set for the Institute in

this campaign was \$17,543.00, and this quota was fair in the light of the amounts asked from other groups. Your chairman must therefore confess failure; but it was a failure that has left him proud of the Institute community and of his co-workers, especially the solicitors who, as always, carried the real burden of this drive.

During the last twenty years contributions to the Red Feather Campaigns have grown; but needs have grown even more rapidly than gifts. Hospitals now constitute the largest group in the United Community Services, if size is measured by the amount of money received from this fund. The number of days spent in a hospital by the average patient has declined in striking fashion. Causes of this decline include the advance of medical science, and the availability of new hospital techniques as well as the fact that the Blue Cross and other influences now permit many patients with rather minor ailments to enter hospitals. The average patient entering a hospital now pays a smaller total charge than was paid by the patient of a generation ago; but to the hospital the average cost per patient per day has been increased by these new techniques as well as by the rise of all prices.

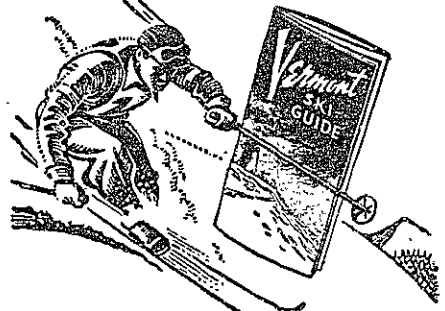
Professor DONALD S. TUCKER
 January 25, 1952

Naval Reserve

(Continued from Page 1)

be accepted up to February 21. Residents of the Greater Boston area may file at First Naval District Headquarters. Others may apply at the Naval Reserve Training Center nearest their home.

Women candidates will be trained this year at the U. S. Naval Training Center, Bainbridge, Maryland. Location of the training school for male candidates will be announced later.



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Mile Relay Team Wins Pair, New Frosh High Jump Star

A pair of victories by the Technology mile relay team and the sudden emergence of a new high jump star in the person of Freshman Bill Antoine of Roxbury highlighted three weeks of indoor track activity during the exam and vacation periods.

The mile relay quartet won successive victories in the Boston Knights of Columbus Meet at the Boston Garden before bowing in Boston Garden and the Millrose Games at Madison Square Garden before bowing in the Boston Garden B.A.A. meet. Ken Childs, George Grenier and Ian Williams formed the team which turned in a final time of 3:29.5 in the opener. Tufts was second, with RPI third and Springfield last.

In the Millrose meet the same quartet cut their time to 3 minutes 29.4 seconds to win their second straight, with Iona second, Adelphi third and City College of New York fourth. Last Saturday evening they lost for the first time, as a strong Providence college quartet raced to a 3:25 finish with Holy Cross, Brown and Tech following in that order.

Antoine Tops Record

Antoine first came into local

prominence by winning the Boston Y.M.C.A. handicap meet with a 6' 4" jump, the highest of his career. In the K. of C. meet he tied for second place with a 6' 2" mark, topped only by Gerry Ferrara of Rhode Island State. He topped 6' 2" again in the Millrose event although failing to place and last Saturday cleared the bar at 6' 3 1/4" to tie John Vislocky of the N.Y.A.C. for third place, with Ferrara finishing fifth. The event was won by John Hall, national high jump champion from the University of Florida, who made a 6' 6 1/2" leap but missed his try for the meet record. In all four of the meets Antoine surpassed the Freshman record of 6' 0".

Two-Mile Team Takes Third

A two-mile relay team made up of Clyde Baker, Bill Nicholson, Jack Farquhar, and Chuck Vickers took third place behind Yale and Providence in the K. of C. meet, with Harvard fourth. The winning time of 7:56.4 was second best of the night. The Engineer quartet finished in about 7:59.

In the B.A.A. meet Vickers dropped from the group to run in the William Bingham Invitation 880 but finished fourth after leading on the next to last lap. Walter Molineaux of Brown fought off a stretch drive by B.U.'s Willy Smith to take first, with Bob Tiernan of Providence third. Captain Sam

(Continued on Page 4)

Six Team Field Set For 1952 Intramural Basketball Playoffs

By BOB EHLERT

Baker House and Phi Sigma Kappa won the right to join four other teams in the finals of the basketball tournament by beating rivals in playoff games the last week before vacation.

In a lopsided contest Baker House defeated Phi Kappa Sigma for the third straight time as Elmer Selby scored 19 points. The height of the winners once more proved too much and the 58-34 score indicated the nature of the game. Playing without John Mattson, sidelined with a serious shoulder ailment, Phi Kappa Sigma was behind 12-2 at the first quarter and never in the game even though Ken Wagner scored 12 points. Gino Scalamandre contributed 11 to the Baker House total.

Phi Sigma Wins 43-32

John Pease and Dick Engelken paced Phi Sigma Kappa to an easy 43-32 win over Delta Kappa Epsilon to win the title after the Dekes apparently had it clinched. The eleventh-hour reversal of the decision on a November game which the Phi Sigs had apparently lost put them into a tie with DKE and forced the playoff. Dave Cravens played for the losers after being out most of the season; Glen Maxon, Ed Shea, and Von Sowers

(Continued on Page 4)

Rifle Team Captures Five Matches On Southern Tour, Trails Maryland, St. John's

Traveling during the mid-term vacation, the Technology varsity riflemen picked themselves up from a disappointing start to climax a ten-day southern trip by setting a new range record at the U. S. Naval Academy last Saturday. The win over Navy, coupled to wins over George Washington University, Virginia Military Institute, the University of Tennessee, and Rutgers University, gave the Techmen a 5-2 record for the tour. In the only other match of the season to-date, that at Boston University in November, the new Tech team had lost to a new B. U. record, 1396 to 1401.

The riflemen's first match of the tour took place at Rutgers University just two days after the end of the final examination period, when the Beavers took on Rutgers and St. John's University in a triangular match. The St. John's marksmen, currently leading the New York Metropolitan League in scoring, edged out the Techmen by a 1409 to 1406 score. Rutgers came in as a poor third in the match with a score of 1339.

Journeying to the University of Tennessee, the Beavers gave the Volunteers the first defeat on their home range in three years, by a 1419 to 1404 margin. The Beaver

score bettered by three points the former Tennessee range record, fired by the Vols in the 1951 Inter-collegiate to give them a second-place national ranking.

The Techmen found the Virginia Military Institute team to be weaker than expected, and, in spite of a slump in the Tech scores, the Beavers' 1401 set a new range record and a win over the VMI 1330.

Next for the Engineers was the University of Maryland, the only team to defeat Technology in varsity competition during the 1951 season. The Terps gave the Engineers another eight-point loss when they fired 1435, only five points below the highest-known all-time college score of 1440, to the Engineers' 1427.

George Washington University fell to the Techmen by a 1403 to 1415 count on the same day as that of the Maryland match. The high Tech average of over 280 for all nine shooters was one of the most encouraging results of the entire trip, and indicated a high potential for Tech rifery for several years to come.

The brightest event of the whole trip was the final match at Navy, when the Beavers dropped the Middies from the undefeated ranks.

(Continued on Page 4)

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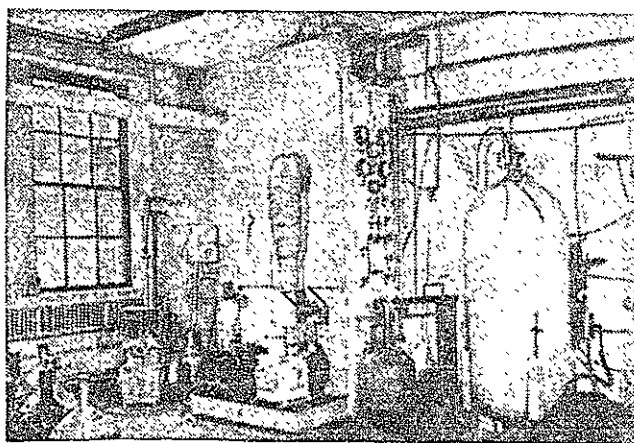
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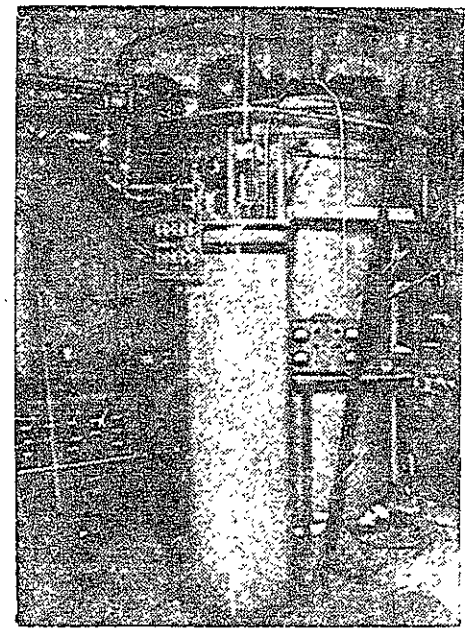
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New Dean

(Continued from Page 1)

ing engineering educators from twelve engineering schools in the United States, was organized by the American Society for Engineering Education and the Unitarian Service Committee, Inc., at the request of the Supreme Commander of the Allied Powers.

Dr. Hazen, who was Second Lieutenant in the Air Service Reserve from 1924-29 and Lieutenant Commander in the U. S. Naval Reserve from 1936-49, served during World War II as Chief of Division 7 of the National Defense Research Committee. In this post he worked from 1942-46 in the field of ordnance fire control. In recognition of "outstanding services to his country," Dr. Hazen was awarded the President's Certificate of Merit, the second highest civilian award, in October 1948.

The Franklin Institute awarded him the Levy Gold Medal in 1935 for outstanding technical papers on the theory and design of servomechanisms which appeared in that institute's journal. Dr. Hazen has contributed notably to the technical literature in electrical engineering, especially in the field of instrumental calculation, automatic control devices, and engineering education.

Member of Various Councils

Since 1948 he has been a member of the Advisory Council of the Department of Electrical Engineering at Princeton University and in 1949 was a member of the Panel on Science and Engineering of the Service Academy Board.

Telephone System

(Continued from Page 1)

that the system serves a population of about 10,000 people and is larger than the systems serving one-half of the towns in Massachusetts.

After a brief ceremony guests inspected the new system, some of the laboratories and research facilities of the Institute and the Vail Library named after Theodore N. Vail, former president of the AT&T, who endowed it through a bequest, and which now contains one of the world's largest collections of books on electrical engineering. Among the officers attending the inaugural ceremony were Joe E. Harrell, President of the New England Telephone and Telegraph Company,

From the Institute were Dr. Karl T. Compton, Chairman of the Corporation; Joseph J. Snyder, Vice President and Treasurer; Dr. George R. Harrison, Dean of Science; John E. Burchard, Dean of Humanities and Social Studies; D. L. Rhind, Bursar; Carlton E. Tucker, Executive Officer, Department of Electrical Engineering; and Miss Agnes N. Morrice, Chief Operator.

Debate Club Announces Newly Elected Officers

The Debate club officers for the coming term are: General Manager, Vince W. Bronson, '53; Operations Manager, Robert F. Barnes, Jr., '54; Tournament Manager, James S. Hyde, '54; Freshman Chairman, Flavius E. Davis, '55; Debate Manager, Robert Evans, Jr., '54; and Publicity Chairman, Bernard J. Kelly, '53.

College Industry

(Continued from Page 1)

tute of Technology, who discussed the college aspects of the engineers' training; and H. N. Muller, Assistant to Vice-President in charge of Engineering, Westinghouse Electric Corporation, who discussed the engineers' industrial training in his first years out of college.

The afternoon session of the conference was devoted to three simultaneous panel discussions.

Relay Team Wins

(Continued from Page 3)

Daniell of Dartmouth was fifth. Bob O'Donnell filled in on the two-mile team which placed second to Yale thanks to a great last-lap sprint by Farquhar to pass Al Collins of B. U. Holy Cross was fourth and Providence fifth. Yale cut its winning time down to 7:52.9.

Frosh Hurdler Shows Well

Freshman high hurdler Warren Lattof showed remarkable improvement in taking fifth in the final of the hurdles, won by the great Harrison Dillard. Sophomore sprinter Chris Geisler was second in the dash trial heat of the K. of C. meet but failed to make the semi-final in either of the other two meets.

The Freshman mile relay team

New Professorship

(Continued from Page 1)

Stone and Mr. Webster presented to the Institute the president's house.

Commenting on the significance of the Institute's first endowed professorship in electrical engineering, Dr. Compton emphasized that such professorships are a means of fulfilling the primary object of the Institute's long-range development program, of giving special distinction to the men who are appointed to them, and of honoring and keeping alive the memory of great men of the Institute.

Intramural Playoffs

(Continued from Page 3)

accounted for 25 of their points. Playoffs will start within a week and will feature a round-robin schedule with Baker House and Phi Sigma Kappa joining Burton Student Staff, Huskies, Alpha Tau Omega, and Theta Chi in the fight for the school championship.

of Kermit Lee, Hank Olivier, Charles Prewitt and Harry Schreiber was fourth in the five team K. of C. meet Freshman race. Harvard took first, followed by Yale and B.C., with Brown fifth. First place time was 3:33.1 which the strong Crimson yearlings cut to 3:26.9 in the B.A.A.

Rifle Team

(Continued from Page 3)

Tech's 1432 and Navy's 1425 were the highest scores of the year for both teams; the Tech score was only five points short of the recognized national intercollegiate record, fired by the Beavers during the 1951 season.

The nine Tech shooters to go on the trip with Coach George Spaziano were, in order of their averages for the tour, Captain Al Tanner, Carl Eiriksson, Manager Dick Tooley, Sark Zartarian, Ev Schwartzman, Phil Rane, Bob Reichard, Art Auer, and Jim Crewe.

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