A new manual telephone switchboard, the first of its kind in New England, was formally opened at the Institute on January 30 with a demonstration of telephone exchanges from England Telephone & Telegraph Company in Cambridge in President Hayden Memorial Library. In Los Angeles attending a meeting of the M.I.T. Club of Southern California.

The new switchboard and its additional facilities were segregated before more than 30 representatives of the Institute and the telephone company, giving Institute one of the largest private branch exchanges in the New England company.

Technical Skill Has Advanced Development
In opening the new system Mr. Robert B. Hayden, president of the company, stated that during the last five years we have seen rapid progress toward the demand for telephone service ever since we established our first exchange in 1928, and addition to serving three-quarters of a million more telephones here in New England, we have made wide-spread advances in the speed and quality of service.

"Like so many scientific achievements, our new developments can be traced back to the research and development work which has been done, particularly in the last 10 years, in many young Americans from schools like M.I.T."

It is expected that this new switchboard, in addition to automatic ringing by the operator, will include an automatic dial, a flashing lamp operated by a single touch of the hand, and direct dial service for subscribers in the area.

In describing the system and the work of the new exchange, Professor Carlton E. Tucker, executive officer of the department of electrical engineer, stated (Continued on Page 4)

Prof. Buerger Chosen Foreign Member of Brazil Science Acad.
Dr. Martin J. Buerger, professor of crystallography at the Institute, has been chosen a Foreign Member of the Brazilian Academy of Sciences.

A letter of election stated that Professor Buerger was elected by the general assembly in consideration of his "valuable contributions to science and most helpful collaboration with Brazilian research workers."

Professor Buerger has collaborated in crystallography with Professor Eystulario Tavares of the Faculty of Philosophy and University of Rio de Janeiro and has done research at the Institute under a Rockefeller Fellowship in 1930, and with Professor Rui Franco of the Faculty of Engineering in Brazil's National Technological Institute.

In 1946 Professor Buerger gave a series of lectures on crystallography at the University of Rio de Janeiro to inaugurate a program in crystallography there. Professor Buerger, who has been associated with the Institute since his graduate work, has received wide-world recognition for his discoveries and inventions in x-ray experimentation and for application of x-rays to geological research.

His achievements have been recognized by his election to the presidency of the Crystallographic Society in 1939, the Society of X-ray and Electrical Crystallography in 1940, and the Mineralogical Society in 1947.


dr. hazen named grad school head; will succeed retiring dean bunker

Dr. Harlow Shapley will lecture with illustrated slides on "Galaxies." His talk, sponsored by LAC, on Fri., will be at 8:30 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, of education in astronomy, and his original views on many vital human problems. He received his Doctorate from Princeton in 1918 and began to receive professional recognition in 1924, his first year at the Mount Wilson Observatory in California. At that time, he advanced his famous velocity 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.

In 1931, Dr. Shapley has been director of the Harvard Observatory, which has been one of the most important astronomical centers in the world under his leadership. His work has been recognized by many honorary degrees from many institutions, including the Royal Astronomical Society of London, the National Academy of Sciences, and others.

Graduate, Senior Get Rhodes Scholarships
Chl A. Shiffman, a senior in electrical engineering and Dr. Richard E. Sibley, a freshman, both from the class of 1951, have been selected to receive the prestigious Rhodes Scholarships. The program is designed to provide a continuing flow of newly commissioned officers sufficient to keep the Naval Reserve at authorized strength.

Successful candidates are required to complete two six-week summer courses in naval subjects and acquire a commission of ensign as an ensign in the Naval Reserve.

Applicants for enrollment in the Naval Reserve Officer Candidate (ROO) program are now being accepted from qualified college students, it is announced on Jan. 19 at First Naval District headquarters, Boston.

The ROO program is designed to provide a continuing flow of newly commissioned officers sufficient to keep the Naval Reserve at authorized strength.

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Awards Established
The program is open to both male and female students, in their first, second, or third years of college, who are not over 26-17 and female 18-27. Applicants must agree to a six years of service in the Naval Reserve until commissioned.

The purpose of the accepting male applications is February 15. Applications from women candidates will be considered on an individual basis. (Continued from Page 2)

New Sailboat
Manned by an all-M.I.T. crew of four, the new sailboat, designed to replace the forty original boats built in 1935 for the Naval Reserve Officers Training Corps, will be unveiled at the annual conference of the American Society for Engineering Education and held here at the Institute on Saturday, February 4.

The conference theme was "The Relation of Engineering Education to Industry." The Institute hosted the conference at M.I.T. and the conference was attended by over 500 members of the ASEE and the trustees and faculty of the Institute.

The new sailboat was designed by the Institute’s Graduate School of Aeronautics and Astronautics and was built by the Stone & Webster company.

The sailboat is a 28-foot catboat designed for racing and is powered by a 25-horsepower outboard motor. It has a displacement of 2,200 pounds and is capable of reaching speeds of over 20 miles per hour.

The sailboat is equipped with a mast, a boom, a jib, and a mainsail. It also has a centerboard and rudder for steering. The sailboat is made of wood and is painted white.

The sailboat is intended to be used for racing and recreational purposes. It is designed to be lightweight and fast, with a shallow draft to allow it to sail in shallow waters.

The sailboat is named "Sable," after the mascot of the American Society for Engineering Education. The sailboat will be used by the ASEE for educational and recreational purposes.

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 April 15. The exhibit will open on Saturday, February 4, at 2:30 p.m.

Karl Zerbe was born in Berlin in 1904 and has been living in Paris since 1926. He is a well-known artist and has exhibited his works in many countries. His works have been acquired by several important collections, including the Museum of Modern Art in New York and the Art Institute of Chicago.

Karl Zerbe is known for his paintings and sculptures, which often feature abstract forms and vibrant colors. He uses a variety of techniques, including oil painting, collage, and assemblage. His work is characterized by a sense of playfulness and experimentation.

Karl Zerbe’s career has spanned over six decades, and his works have been exhibited in numerous galleries and museums around the world. He is considered one of the most important artists of the 20th century.

The exhibition at the New Gallery is a comprehensive survey of Karl Zerbe’s work, featuring paintings, sculptures, and other works created throughout his career. The exhibition includes works from the 1920s to the 1990s, allowing visitors to see the development of Zerbe’s style over time.

The exhibition is part of the Institute’s ongoing commitment to showcasing the work of contemporary artists. The Institute is proud to present this exhibition as a tribute to Karl Zerbe’s remarkable career and his lasting contribution to the art world.

New Tech, Old Problem
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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 aid and 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 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 96 per cent of the quota assigned to it. Approximately 3,973 students contributed to the T.C.A. drive last fall, and the T.C.A. provided to the United Community Services one-tenth of its collections from this source. This gift is expected to yield about $400 for the Red Feather service. Direct contributions to the amounts of $1,727.49 were received from 2,524 members of the teaching staff, while 354 employees locally gave $777. Directly or indirectly therefore not less than 5,033 members of the Institute family contributed to this drive, and their contributions totaled $1,944.40. The quota set for the Institute in this campaign was $17,543.00, and this quota was far in the light of the amounts raised 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 Campaign have grown; but needs have grown even more rapidly than gifts. Hospital now consolidate 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. Ours 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 insurance now permit many patients with rather minor ailments to enter hospitals. The average patient entering a hospital now is 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.

S. Tucker

February 25, 1952
A pair of victories by the Technology mile relay teams and the sudden emergence of a new high jump star are the person of Freshman Scott Antoine, who broke the collegiate indoor mark this weekend, were highlights of this week's athletic activities.

The mile relay quartet won successive victories in the Boston Knights of Columbus Meet at the Boston Garden before losing in the Boston Garden Meet to New Shipment of Packboards.

A two-mile relay team made up of Clyde Baker, Bill Nicholson, Jack Panghaker, and Chuck Vickers took third place behind Yale and Providence in the opener. This was second, with RPI third and Springfield last.

In the mile event the same quartet cut their time to 3 minutes 25 seconds to win their second.

In a lopsided contest: Baker House defeated Phi Kappa Sigma for the second straight time as B.U. scored 19 points.

The Engineers have now scored 19 points in all four meets this season, with a 19-point margin of victory over the third place finisher. The team has won the last three meets and has scored 19 points in all four meets this season.

**LIQUID NITROGEN**

is offered at a new and lower price to laboratories of M.I.T. by the CRYOGENIC ENGINEERING LABORATORY of the Department of Mechanical Engineering.

New price—35 cents per liter.

Liquid Helium, too, is available by special arrangement.

**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 Engineers were the first to win the title after the Dekes put them into a tie with DKE and the Terps, with the Dekes and Terps taking first place.

The Engineers' 1427 was good enough to beat the Terps in the final examination period, with a score of 1441 to the Engineers' 1427.

In a lopsided contest Baker House defeated Phi Kappa Sigma for the third straight time as B.U. scored 19 points. The height of the winners was not more than 10 feet 6 seconds and the 36-30 score indicated the nature of the game. Playing without John Matlack, Glenn B. Smith, and Sam Vislocky for the third straight time as Elmer Molineaux of Brown fought off a strong drive by B.U.'s Willy Smith in the 1951 Intercollegiate Games.

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CALENDAR OF EVENTS

FEBRUARY 5 TO FEBRUARY 12, 1953

WEDNESDAY, FEBRUARY 6
Electrical Engineering Department. Colloquium: "The Solution of Indus-
trial Problems by Electric Analog Computers." Dr. E. L. Harder.

Westinghouse Electric Corporation, Pittsburgh, Pa. Room 6-328, 4:15 p.m.
Refreshments at 4:00 p.m. in Room 6-621.

Inter-Varsity Christian Fellowship. Lecture: "Christ is Lord." Mr. John
Miller. Montague 7-597, 2:15 p.m.

Thursday, FEBRUARY 7

Chemistry Department. Harvard-M.I.T. Physical Chemistry Colloquium:
"Some Electric Problems in the Upper Atmosphere." Professor F. Har-
tech, Rockefeller Polytechnic Institute. Room 6-126, 8:09 p.m.

THURSDAY, FEBRUARY 7

Chemistry Department. Spectrometer Seminar: "Regulaurine in the
Cibicistocai Spectra of Large Molecules." Professor J. R. Platt,
University of Chicago, Room 6-126, 1:00 p.m.

Physics Department. Colloquium: "The Radiometric Decay of the Neu-
tron." Dr. J. S. Hall, U. of Cal., Radiation Laboratory, Canada. Room
6-129, 4:15 p.m.

Hillel Society. Film and Lecture: "World Jewish Problems Today." Room
8-204, 5:00 p.m.

FRIDAY, FEBRUARY 8

Aeronautical Engineering Department. Seminar: "James Forestal Re-
search Center." Professor D. C. Sayre, Princeton University. Room
316-319, 4:00 p.m. Coffee from 3:30-4:00 p.m. in the DuPont Room.

SATURDAY, FEBRUARY 9

Hillel Society. Acquaintance Dance for Members. Barton Lounge, East
Mechanical Engineering Department. Seminar: "Vibrations in Blading
must be in the Office of the Editor, Room 7-204,
are on display in the Photographic Service Gallery, Basement of Build-

COACHES began to-day and we wish all a
good success. We shall keep feature ma-

PSOROSOPE, which was resumed after a
long holiday, will continue during the

Photochromics, Inc., 205 Madison Ave., New York, N. Y.
[New Parker "21":] Pens only
$500

It's precision-built by the makers of world-famous New Parker "51".

Offers the smart style.....smart features ..... of pens selling at
twice the price.

It's the low-cost pen that will never let you down! No safety pen
has a closer fit! No safety pen has such a smooth writing tip! No
day. at the brook, but it was a
failure that has left him proud of
the Institute community and of his
co-workers, especially the students
who, as always, carried the real
burden of this drive.

During the last twenty years con-
tributions to the Red Feather Cam-
paings have grown; but needs have
grown even more rapidly than gifts.

New Parker "21" and "31" Pens with Superchrome Ink.
They also use any other fountain pen ink.

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Mile Relay Team Wins Pair, New Frosh High Jump Star

A pair of victories by the Techno-
logy mile relay team and the
prominence by winning the Boston
T.M.C.A. handicap meet with a 
4:5" jump, the highest of his career.
In the K. of C. meet he tied for
second place with a 5:22.5 mark
topped only by Gerry Ferrara of
Rhode Island State. He topped 6' 8"
again in the Milestar event although
calling two places and last Saturday
cleared the bar at 6' 6 1/8" to win John
Violino of the N.Y.C.A. 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 1/8" leap but missed his
aim for the meet record. In all four
of the meets Ambrose surpassed the
Frederick record of 6' 5 1/4".

Two-Mile Team Takes Third
A two-mile relay team made up
of Clyde Baker, Bill Nicholson, Jack
Fuquhar, and Chuck Vickers took
third place behind Yale and Provi-
dence 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 fin-
ished in about 7:58.

In the A.A.A. meet Vickers dropped from the group to run in the William Blount Invitational
but finished fourth after lead-
ing on the last leg. JV McDonald of Brown fought off a stretch drive by B.U.'s Willy Smith
and the Providence third. Captain Sam

Six Team Field Set For 1952 Intramural Basketball Playoffs by SOS EILERET

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 play games last week before vacation.

In a lopsided contest Baker
House defeated Phi Kappa Sigma
for the third straight time as Elmer
Beiley scored 19 points. The height
of the winners was behind 12-2 at the
first quarter and swamped the
event even though Ken Wagner scored 12 points. Captain Vanlaarinde contributed 11 to the
Baker House total.

Phi Sigma Wins 43-32
John Pease and Dick Engelsken
paced Phi Sigma Kappa to an easy
43-32 win over Delta Kappa Eps-
ilon 40 to win the title after the Delta
apparently had it clinched. The
11th-hour reversal of the deci-
dation on a November game where
the Phi Sig had apparently lost
out to them into a tie with DKE and
forced the playoff. Dave Cravens
played for the losers after being
unlucky candidate for the 11th place.
Chen, Shob, and Von Bowers
(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, Vir-
ginia Military Institute, the Univer-
sity of Tennessee, and Rutgers Uni-
versity, gave the Techmen a 5-4
record for the tour. In the only
other match of the season-to-date,
that at Boston University in No-
ember, the new Tech team had
lost to a new B. U. record, 1386 to
1450.

The riflemen's first match of the
tour took place at Rutgers Uni-
versity just two days after the end
of the final examination period,
when the Beavers took on Rutgers
in a 1409 to 1406 score. Rutgers came
to the University of Maryland in
the New York Metropolitan League in
fall of the season. The high
scores 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 bright event of the whole
trip was the final match at Navy, when
the Techmen showed the Middle
to the undefeated ranks.
(Continued on Page 4)

Liquid Nitrogen is offered at a new and
lower price to laboratories of M.I.T. by the CRYOGENIC
ENGINEERING LABORATORY of the Department of
Mechanical Engineering.

New price—35 cents per liter.
Liquid Helium, too, is available
by special arrangement.

Liquid Nitrogen Generator. In the box
shown above air is liquefied and dis-
tilled at —300°F. to prepare pure
liquid nitrogen for the cold traps of
M.I.T. researchers. Over 62,000 liters
were supplied in 1950.

Helium Liquefier with
—452°F. "Deep Freeze" in
background. These two
tank-like objects represen-
ta sizable fraction of the
nation's low-tempera-
ture producing equip-
ment.

The machines shown above possess many novel features which contribute to safety and
efficiency of operation. They were developed and largely built by the Personnel of the Crys-
goene Engineering Laboratory. Your patronage has been a vital element in the environment
which makes possible such developments.

To place your order for liquid nitrogen—Extension 2250.
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 Univer-
sity Service Committee, Inc., at the request of the Supreme Commander of the Allied Powers.

Dr. Hazen, who was Second Lieu-
tenant in the Air Service Reserve from 1929-30 and Lieutenant Com-
mander in the U. S. Naval Reserve from 1936-46, served during World War II as Chief of Division 7 of the National Defense Research Com-
mitee. In this post he worked from
1942-46 in the field of ordnance fire control. In recognition of "out-
standing services to his country," he
was awarded the Presi-
dent's Certificate of Merit, the sec-
ting Engineer, especially in the field of

(Continued from Page 1)

Telephone System

that the systems serve a population of about 2,500 people and is larger
than the systems serving one-half
of the towns in Massachusetts.

After a brief ceremony guests in-
spected the new system, some of
the laboratory and research facili-
ties 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 inaugu-
ral ceremony were Leo E. Harrall, Presi-
dent of the New England Tele-
phone and Telegraph Company.

(Continued from Page 3)

College Industry

(Continued from Page 1)

rifice of Technology, who discussed
the college aspects of the engineer's
training; and E. N. Muller, Assis-
tant to Vice-President in charge of
Engineering, Westinghouse Elec-
tive Corporation, who discussed the
engineer's industrial training in his
first years out of college.

The afternoon session of the con-
ference was devoted to three simul-
taneous panel discussions.

Relay Team Wins

(Continued from Page 2)

O'Donnell of Dartmouth was fifth.

New Professorship

(Continued from Page 2)

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

Commenting on the significance
of the Institute's first endowed pro-
fessorship in electrical engineering,
Dr. Compton emphasized that such
professorships are a means of ful-
filling the primary object of the
Institute's long-range development
program, of giving special distinc-
tion to the men who are appointed
to them, and of honoring and keep-
ing alive the memory of great men
of the Institute.

Intramural Playoffs

(Continued from Page 3)

Freshman sprinter Chris Geisler was second
for the school championship.

Debate Club Announces

Newly Elected Officers

The Debaters met on Tuesday, Feb-
rine for the tour, lCaptain Al Tanner,
and were, in order of their averages

millions of books

COMMENTS ON THE IMPORTANCE OF THE 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.