Welcome To M.I.T. Open House

THE TECH

Features of Open House... See Page 2

Engineering Advancements... See Page 3

Campus Camera... See Page 5

Killian In Embassy Address
Stresses Religious Needs

What the world needs today is "not less science but more understanding," President of the Institute James B. Killian, Jr., told an address at annual Tech Emb-

killany sponsored by the TCA last Tuesday.

Speaking on the "Search for Virtue," Dr. Killian stressed the requirement that education provide a discipline between good and evil. In his opin-

ion, the "common community in the life of the Institute offers excellent conditions for the training of individuals in the ideals and the life. Spiritua of tolerance and prof-

essional service pervade the engi-


ness and scientific field, as en-

Thus, and contribute to the ac-

counts of men and of the mean-

of life.

Need for Chapel

While maintaining that religion was not discernible through science, Dr. Killian expressed faith in the ability of science to aid man in the quest for higher principles. To end the developing the dual di-

sciple of science and religion at the Institute, he cited the need for an auditorium, a chapel, and a religious library.

Even without outward forms, Dr. Killian concluded, technological institutions can sus-

tain their students with a knowledge of the search for virtues.

Automatic Machines To Replace Worker Prophesies Wiener

Professor Norbert Wiener spoke on the "Electronic Age" before a large gathering of students on Monday, May 9. After a brief introduc-

tion to scientific understanding of the Industrial Revolution to goal changes in social attitudes, Professor Wiener spoke on the advantages of elec-

tronic machines and their effects in the future.

An electronic machine can re-

create a Socialistic state. Twenty million dollars is the goal in control of these industries and Alumni and many industrial

institutions can succeed in this effort. Twenty million dollars is the goal in control of these industries and Alumni and many industrial

institutions can succeed in this effort.

Twelve million dollars have been contributed by the Ford and Chrysler Corporations as evidence. Also men-

tioned were oil drilling plants and atomic power plants as sources of the socio-

The commencement address at

ual requirements that education produce well-rounded mature

tinuous, and contribute to the at-


ing of the Rockefeller Foundation, and the Institute's president, will make the address to the graduates.

Dr. Kurt C. Compton, chairman of the Institute's corporation, will give the baccalaureate address.

Lecture will be held in Walker

An electronic machine can re-

create a Socialistic state. Twenty million dollars is the goal in control of these industries and Alumni and many industrial

institutions can succeed in this effort.

Twelve million dollars have been contributed by the Ford and Chrysler Corporations as evidence. Also men-

tioned were oil drilling plants and atomic power plants as sources of the socio-

ual requirements that education produce well-rounded mature

M.I.T. Development Fund Grows

Seven Regional Totals Tabulated

One of the first projects completed in the development program, the Charles Hayden Memorial Library has been financed by contributions technologically and financially.

Twenty million dollars is the goal of the M.I.T. development fund. Although industrial corporations are being invited to contribute freely, according to the Institute financially, and results have been

able to help strengthen the Institute significantly.

The alumni contributions are being handled through seven re-

gional districts. The New England area, with the exception of Connecti-

cut, has reported contributions totaling $4,946,419. New York and surrounding areas, however, have raised $602,812,653, while Philadelphia and the surrounding states have collected $1,382,287. Pittsburgh and some of the southern states have come across with $1,171,877.

Director of the South has donated $495,776.

(Continued on Page 4)

Barnard and Compton

Will Be Speakers At Commencement

Place for the 86th commencement exercises at the Institute have been announced by Professor Ralph G. Houson, chairman of the Committee on Commencement.

The commencement address at the graduation exercises which will be held in the Rockefeller Auditorium will be given by Dr. E. F. A. Smith, governor of New York, and the Campbell Soup Co. has con-

tributed $563,533.

One of the South has donated $495,776.

(Continued on Page 4)

Ex-Troopship Sails For Europe June 22

Under NSA Auspices

Negotiations are being completed by the U. S. National Student Asso-

ciation with the Norwegian Government.

The Svalbard will sail from New

(Continued on Page 4)
The interesting coverage given in Tuesday's The Tech to the program of the opening ceremonies at the Hayden Memorial Library did not neglect to explain the situation that might require an explanation.

The only appropriate locale for such an exasperation was the second floor, south wing, in the General Library which will be rear- ranged this week. Unfortunately, even in the largest available linear area, the seating capacity is limited to approximately 500 persons. The preparation of the invitation list has been a major endeavor of the Donor's party, the organized friends of the Library and the representative local libranit, to- gether with members of the Corpo- ration and active participants in the Development Program almost completely consumed by the effort. Under the circumstances, it was nec- essary to prepare a list as repre- sentative of all faculty and students, as possible and the Invitations were presented to them. It is an easy task and many faculty, staff, and student friends of the Library could not be included in this list. As a result, the Library staff could not be invited.

The Library is open to the public by reservations only. Any faculty, staff, and student invited by the Donor's party, the organized friends of the Library and the representative local librarians, together with members of the Corporation and active participants in the Development Program almost completely consumed by the effort. Under the circumstances, it was neces- sary to prepare a list as represen- tative of all faculty and students, as possible and the Invitations were presented to them. It is an easy task and many faculty, staff, and student friends of the Library could not be included in this list. As a result, the Library staff could not be invited.

The Layman "Him"

The "Layman" is another oddity to be seen by the interested in the world of lasers. It comes from the designers of a special optical system a stair approach from a partic- ular direction seems to observe a long burning in a bush, when, it is passed by the beam. The Layman is odd in its oddness against anyone and will see something but a perfect de- vice. Other exhibits by the math or- ganization of the Office of the President are worth seeing. Any opportunity to

Aeronautical, Naval, Mathematics, Physics

Airplanes and ship enthusiasts have much more interest in the Aeronautical Engineering and Na- val Architecture Department. A special attraction to the air- craft enthusiast is the tunnel that is being used for the aerodynamic analysis. Models of the wind tunnel are placed in the airplane de- sign and analysis. Other dis- plays feature airplane instruments and control and a movie on flight testing.

Machinery and Ships

The machinery and ship section of the Naval Architecture and Marine En- gineering Department is also in operation. Various machinery models can be seen and the institu- tion has a large display of Naval Municipal also in oval.

Band Concerts

A program of light band music is being presented on the afternoon of May 12. At 2:30 p.m., the M.I.T. Band Concert will be held. The place is the great court outside Bulfinch Hall.

The program includes "London Symphony," "March from Bizet's "Carmen," "Treaty of Versailles," and the Signal Corps Band, "The Light Brown Haun." Additional pieces will be performed by the Department of Civil and Sanitary Engineering. Numerous exhibits are available for inspection by visitors on the three floors of the building, including structural engineering, civil engineering, sanitary engineering, and mechanical engineering. The exhibits will be featured in detail in a special section of the newspaper. The exhibits include those in the Sanitary Engineering, Civil Engineering, and Mechanical Engineering.

Civil Engineering

This Saturday practically all the buildings No. 1 is turned over to the Civil Engineering Department by the Department of Civil and Sanitary Engineering. The laboratory displays are exhibited on the first three floors of the building, in addition to the exhibits in room 1-169. The exhibits include those in the Sanitary Engineering, Civil Engineering, and Mechanical Engineering.

BOSTON CYCLE CO.
Special Offer to College Students
Bicycle and Equipment at a Half Price of Presented Prices
97 DOVER STREET, BOSTON

Ralph W. Langley & Associates
DRAFTING MACHINES
Illustrated Catalogue

The Mother Church Foundations, ACHIEVING:
1. Providing a spiritual home
2. Supporting educational programs
3. Encouraging social justice initiatives
4. Promoting ecological stewardship
5. Strengthening the fabric of community life

Andy Serff's talk is one of the highlights of the event. Models of the wind tunnel are placed in the airplane de- sign and analysis. Other dis- plays feature airplane instruments and control and a movie on flight testing.

Waffle-Table and Flame-Thowers

The Waffle-Table is a presentation demonstrating military equipment, model bridges and waffle-tanks.
Chemical Engineering

"Stretch it like rubber. Roll it up and bounce it like a rubber ball!" is the cry of the future Chemical Engineer in charge of the exhibit of silicon polymers. These silicon polymers exhibit the remarkable characteristics of being shelf-stable and flexible. When the form of a ball, the polymer becomes elastic, while pulled or stretched it exhibits low cohesive forces, and remains permanently deformed.

The most spectacular exhibit planned for Open House is the fluidization pond. Picture painted ducks swimming around in a pond. With a press of the button the level secedes, and the ducks are left high and dry on a beach of sand. This fluidization process takes place when air bubbles are evenly distributed throughout a fine divided solid, and it has been to really be appreciated.

One of the most interesting exhibits planned for Open House is the fluidization pond. Picture painted ducks swimming around in a pond. With a press of the button the level recedes, and the ducks are left high and dry on a beach of sand. This fluidization process takes place when air bubbles are evenly distributed throughout a fine divided solid, and it has been to really be appreciated.

Food Technology

Coffee processing, the vacuum drying of foods, and the techniques of baking are some of the methods which the Food Technology has planned for Open House.

One of the many laboratories which the department has open always has something new to offer. Bread can be baked in two minutes on the miniaturized model of the central kitchen which the Food Technology has planned for Open House.

English and History

Books, maps, and photographs illustrate the interests and work of the English and History Depart- ment in Hayden Library. Abundant literature and history of the world is indicated by maps and representative volumes. Dr. Wagner also plans an exhibit with this department.

Compliments and Best Wishes

Frank H. Whelan Consulting Engineer

1 Beacon Street, Boston

PIERCE CONSULTING ENGINEERING CO.
683 ATLANTIC AVENUE

STATE BLDG.
FAC TORY T HIR TEEN YEARS GIVE US A THOUSAND YEARS TO LIVE.

Sets the pace in SPORTS

CHARLIE MUN HARD-LAUN DRY
Complete Laundry Service
PHONE: 88 MASS. AVE.

ITED CHINESE & AMERICAN FOODS

709 BOYNTON ST., BOSTON
(Formerly Darin's)
Pillars of Institute Rest On Soft Foundation of Clay

When construction began in 1918 at Technology's new Cambridge site, the Boston newspapers were full of dire predictions that the buildings would soon sink into the soft blue clay on which they were built. Such predictions were not entirely unfounded, for some of the new buildings had sank as much as three inches even before the construction was completed.

Elaborate preliminary borings were made into the ground on which the buildings were to stand. Two members of the Corporation were sure that the bog--"muck land"--pumped up from the bottom of the Charles twenty years earlier would swallow up the buildings. Land near Soldiers Field (Golf course) was their choice. Results of the borings led to construction at the present site.

In more recent times construction of proper foundations for the swimming pool presented two special problems requiring solution for an incompressible medium. A minimum differential settlement was required to facilitate drainage of the pool and to ensure proper appearance of the scan gutter. In addition, it was decided that the differential settlement between both ends should not exceed 0.3 inches, compared with the seven inch differential settlement of ovens of the main buildings.

Although the layer of sand and gravel covering the clay was absent at the deep end of the pool, it was seven feet deep at the other end. With ordinary foundations it was feared that these would be too indurated to support buildings of greater settlement at the deep end.

When W. Welles Bosworth, one of the two architects of the group, decided that the buildings were to stand, two members of the Corporation were sure that the bog--"muck land"--pumped up from the bottom of the Charles twenty years earlier would swallow up the buildings. Land near Soldiers Field (Golf course) was their choice. Results of the borings led to construction at the present site.

In more recent times construction of proper foundations for the swimming pool presented two special problems requiring solution for an incompressible medium. A minimum differential settlement was required to facilitate drainage of the pool and to ensure proper appearance of the scan gutter. In addition, it was decided that the differential settlement between both ends should not exceed 0.3 inches, compared with the seven inch differential settlement of ovens of the main buildings.

Although the layer of sand and gravel covering the clay was absent at the deep end of the pool, it was seven feet deep at the other end. With ordinary foundations it was feared that these would be too indurated to support buildings of greater settlement at the deep end. When W. Welles Bosworth, one of the two architects of the group, decided that the buildings were to stand, two members of the Corporation were sure that the bog--"muck land"--pumped up from the bottom of the Charles twenty years earlier would swallow up the buildings. Land near Soldiers Field (Golf course) was their choice. Results of the borings led to construction at the present site.

In more recent times construction of proper foundations for the swimming pool presented two special problems requiring solution for an incompressible medium. A minimum differential settlement was required to facilitate drainage of the pool and to ensure proper appearance of the scan gutter. In addition, it was decided that the differential settlement between both ends should not exceed 0.3 inches, compared with the seven inch differential settlement of ovens of the main buildings.

Although the layer of sand and gravel covering the clay was absent at the deep end of the pool, it was seven feet deep at the other end. With ordinary foundations it was feared that these would be too indurated to support buildings of greater settlement at the deep end. When W. Welles Bosworth, one of the two architects of the group, decided that the buildings were to stand, two members of the Corporation were sure that the bog--"muck land"--pumped up from the bottom of the Charles twenty years earlier would swallow up the buildings. Land near Soldiers Field (Golf course) was their choice. Results of the borings led to construction at the present site.

In more recent times construction of proper foundations for the swimming pool presented two special problems requiring solution for an incompressible medium. A minimum differential settlement was required to facilitate drainage of the pool and to ensure proper appearance of the scan gutter. In addition, it was decided that the differential settlement between both ends should not exceed 0.3 inches, compared with the seven inch differential settlement of ovens of the main buildings.

Although the layer of sand and gravel covering the clay was absent at the deep end of the pool, it was seven feet deep at the other end. With ordinary foundations it was feared that these would be too indurated to support buildings of greater settlement at the deep end. When W. Welles Bosworth, one of the two architects of the group, decided that the buildings were to stand, two members of the Corporation were sure that the bog--"muck land"--pumped up from the bottom of the Charles twenty years earlier would swallow up the buildings. Land near Soldiers Field (Golf course) was their choice. Results of the borings led to construction at the present site.

In more recent times construction of proper foundations for the swimming pool presented two special problems requiring solution for an incompressible medium. A minimum differential settlement was required to facilitate drainage of the pool and to ensure proper appearance of the scan gutter. In addition, it was decided that the differential settlement between both ends should not exceed 0.3 inches, compared with the seven inch differential settlement of ovens of the main buildings.

Although the layer of sand and gravel covering the clay was absent at the deep end of the pool, it was seven feet deep at the other end. With ordinary foundations it was feared that these would be too indurated to support buildings of greater settlement at the deep end. When W. Welles Bosworth, one of the two architects of the group, decided that the buildings were to stand, two members of the Corporation were sure that the bog--"muck land"--pumped up from the bottom of the Charles twenty years earlier would swallow up the buildings. Land near Soldiers Field (Golf course) was their choice. Results of the borings led to construction at the present site.
Two scenes from the 1949 Field Day won by the sophomores who swept all but one event. That event was the hectic glove fight shown on the left. The class of 1952 succeeded in wresting more of the gloves from the opposition than the class of 1953. On the right the sophs pull to victory in the tug-of-war which they won by two successive pulls. A dance highlighted the end of the day's sports activities with the class of 1952 taking home the cup until another year's battle.

With the brass band playing "Stars and Stripes Forever," The Tech's entry into the Harvard Bridge Race is pictured below as it pulls ahead of Governor Dever's limousine on November 9 of last year. In this event, staged in celebration of the completion of repairs which had closed the bridge in September, The Tech placed second, finishing a few lengths behind Governor Dever. A moment after this picture was taken, The Tech's maroon Cadillac was delayed by four Boston policemen, who wondered how ten Techmen, a brass band and two clowns had gotten into the official procession. Pulling ahead of competition in a strong finish, however, The Tech had the honor of being the second to cross the newly completed surface.

Joseph S. Gottlieb '50 and Dotty Lifting shown below cavort on the stage of the Cambridge High and Latin Auditorium in "Stranger in Town," the Tech Show production since 1950. Revised after the war, the show this year played to large audiences and brought cheer from The Tech's critics. Graduate Robert P. Abelson and Adrian Vanfeldt wrote the book and John Leffler '52 composed and conducted the music. After its Cambridge showing, "Stranger in Town" visited the Connecticut College Campus early in April.

Compliments and Best Wishes

UNITED STEELWORKERS of AMERICA

District Number 1

Director: MARTIN J. WALSH

E. D. ABBOTT CO.
PRINTERS
FOR ALL ACTIVITY AND FRATERNITY EVENTS
181 MASSACHUSETTS AVE.
BOSTON
One Block North of Loew's State
ILL more 6-4051, or 6-3277

Compliments Of
DOBLE ENGINEERING CO.
32 LOCUST STREET BE 5-5430 BELMONT, MASS.
Crews To Race In Intercolligate Sprint Championships Tomorrow

By GIL STEINBERG

Saturday the Beaver oarsmen will take nine seats for the third time in the season; hence the biggest in the Liege Regatta has transferred to the Eastern Association of Rowing Colleges. Now that the Pennsy Regatta has been won by the Varsity, the scene is set as the season’s biggest in the East. The contest will be held at Annapolis on the Severn River over a course equaling the Olympic distance of 3,000 meters. Instead of the usual method of heats, the shells will only race once, twelve course equaling the Olympic distance of a three-quarter mile race. The Tech, the usual method of heats, the Beavers have been beaten by Harvard, the defending champions in all three of the races, will put an undefeated shell into the waters of the Severn and stand as the team to beat. The Crimson have won three races this year, two close ones from Tech and a quarter length victory from Penn last week. The Quakers have an excellent boat and are a definite threat in any race. Coach Jim McMillin has the team to beat. The Crimson have won four races this year due to its two extremely good oarsmen in there battling all the way. The Harvard is seeded first in this race also. The Beaver shell, unchanged since the beginning of the year will be Bow, Alexander Drilling, Donald Christiansen in the two seat, John Casson, Paul Smith, Richard Temple, Captain Bob Weber, and For- man Monkman follow with Allen Pond as stroke and Donald Mc- Gouve as coxswain.

Harvard is favored

Harvard, the defending champions in all three of the races, will put an undefeated shell into the waters of the Severn and stand as the team to beat. The Crimson have won three races this year, two close ones from Tech and a quarter length victory from Penn last week. The Quakers have an excellent boat and are a definite threat in any race. The Beavers have been beaten by Harvard, the defending champions in all three of the races, will put an undefeated shell into the waters of the Severn and stand as the team to beat. The Crimson have won three races this year, two close ones from Tech and a quarter length victory from Penn last week. The Quakers have an excellent boat and are a definite threat in any race. Coach Jim McMillin has the team to beat.

Food Technologists Elect Ford Pres.

At a recent business meeting of the Institute of Food Technologists held in the library of Building 20, Thomas Ford ’51 was elected President for the coming year. Other officers elected were Lester Frentz ’50, Vice-President; Andy Hager ’51, Secretary; David Weber ’52, Chairman of the Publicity Committee; Margarite Frye ’51, Chairman of the Social Committee; and Alan Oehler ’50, Chairman of the Program Committee. The last social event of the season will be a bead ball at the local beach on Sunday, May 14.

BEST WISHES

Louis Martinello & Son
BUILDING CONSTRUCTION
BOSTON

WHELAN & ECKLER
ENGINEERS

38 Binford Street
Boston, Mass.
HA 6-9566

LOYALTON & HOLWAY, INC.
Consultants
Termites and Fungus Control
34 Winthrop Street
West Newton

Major Nathan Adams, Auburn ‘40
Personnel Manager, U.S. Air Force

He won his wings and reported in the 36th Fighter Group in Puerto Rico. The group soon returned to the States, giving Adams a chance to marry his college sweetheart.

WETHERILLS’ ATLAS POINT
Tel. Thawbridge 6-6310

PILL, INC.
Established 1897

Builders’ Hardware
744 MASSACHUSETTS AVE.
CAMBRIDGE, MASS.
Louis N. Pill

If you are eligible, between the ages of 20 and 26, with at least two years of college, consider the many career opportunities as a pilot or navigator in the U.S. Air Force. Procurement Tests are being held on many college campuses. If you meet the qualifications, apply today! U.S. Air Force, 4th Air Force, Ft. Oglethorpe, Georgia.

ONLY THE BEST CAN BE AVIATION CADETS!
Jumbos Outlast Engineer Stickmen In 11-8 Victory

Tuesday afternoon at Briggs, the Engineer baseball team, played a patented game with Tufts, went down to defeat by an 11-8 score despite a game that ministers to the.Jumbos hung on long enough to pull out an 11-8 victory.

Penalties Important
The large number of penalties in the game proved to be a major factor in the decision. The eighteen called on Tufts, against eleven and thirteen commitments and managed to hold it until the final gun.

3-1 at Intermission
In the opening frame the Jumbos scored twice before Madsen hit for Tech made it 8-3 at the intermission.

In the second period the Tufts scored twice before Troyk scored twice before Miller. Madsen served merely to spur Tufts, and on the third period the Jumbos hung on long enough to pull out an 11-8 victory.

TO FACE A. I. C.
Reliable Gene Labrozzi will be in the receiving end of Dixon's slants, as he has been all season. Veteran Warren Penner, all hold saves the initial bid for the Beavers.

Beavers Sweep
The big events for the Techmen were the half-mile, where Bill O'Brien, Bud Simpson and Chuck Vickers combined to give the Beavers a sweep of all three places, and the mile and the 120 yard high hurdles, in each of which the Techmen added first and second places. O'Brien and Simpson were the scorers in the mile, while Frank Anderson and Spanier took honors in the high hurdles. Anderson also won the low hurdles and Roy Hoth pole-vaulted for a total personal score of 31 points.

FAY, SPOFFORD & THORDAR

11 Beacon Street
Boston, Mass.
NOTICES

ORCHESTRA CONCERT
The M.I.T. Symphony Orchestra is giving its final concert of the season tonight in Morse Hall. Professor Elwin Lipman will conduct the orchestra in the following works: Haydn's Symphony No. 101 ("The Clock"); Concerto for Clarinet and Orchestra of Weber with Hot Levine as soloist; Cape- land's Outdoor Overture and Quiet City; "Piece" by Hindemith.

SPRING REPORTS
Reports for the Spring Term 1950 will be mailed on Thursday, June 8, to the addresses indicated below:

Foreign students, Term Address
All others, Home Address

Students who wish to have their reports sent elsewhere must call at the Registrar's Office, Room 7-142, not later than Friday, May 26. Duplicate reports for students who are under age will be sent to the parents.

Reports are not sent to students who are candidates for a degree in June, 1950.

GRAYDON SMITH & CO.
Electronic Development
Machine Design

150 Causeway Street
Boston, Mass.

THE TECH
Friday, May 12, 1950

EXTRA-CURRICULAR
All activity leaders will gather in Littlefield Lounge, next Tuesday, May 16, to compose the official calendar of extra-curricular events for the coming school year. The meeting is under the direction of Harold Bich, '51, Walker Memorial Committee Social Chairman.

Development
(Continued from Page 1)

Named by the money raised include the completed Charles Hayden Memorial Library, Supersonic Wind Tunnel, and New Dormitory. Projects under way include the 12 Mev Nuclear Generator laboratory for nuclear science and engineering, a metals processing laboratory, and a hydrodynamics laboratory.

GANTEAUME & McMULLEN
ENGINEERS and ARCHITECTS

99 Chauncy Street
Boston, Mass.

HA 6-8970

FOR SALE: Outboard Motor $35
F. E. Pawel
11-3870

Let's Have Our Copper Bowl.
A copper bowl trophy was taken from the Cambridge Boat Club, April 22. It is needed for a Regatta Sunday. Please return it to Phi Beta Epsilon.

Spring Report

Reports for Spring Term 1950 will be mailed on Thursday, June 8, to the addresses indicated below:

Foreign students, Term Address
All others, Home Address

Students who wish to have their reports sent elsewhere must call at the Registrar's Office, Room 7-142, not later than Friday, May 26. Duplicate reports for students who are under age will be sent to the parents.

Reports are not sent to students who are candidates for a degree in June, 1950.

John L. Hayden  John H. Harding
Oscar J. Campin

GRAYDON SMITH & CO.
Electronic Development
Machine Design

150 Causeway Street
Boston, Mass.

MANTER HALL SCHOOL
Founded 1886
A THOROUGH PREPARATION FOR ALL COLLEGES AND SCIENTIFIC SCHOOLS

HAYDEN, HARDING & BUCHANAN
CONSULTING ENGINEERS

11:00 A. M. TO 7:00 P. M.

MARR SCAFFOLDING CO.
NEW ENGLAND DISTRIBUTORS
FOR SAFWAY STEEL PRODUCTS

25-27 D street
South Boston
20-8-1660

DINE with US TODAY

ALL ROOMS OPEN TO VISITORS TO M.I.T.

11:00 A. M. TO 7:00 P. M.

MORSS HALL
CAFETERIA SERVICE 11:00 A.M.-7:00 P.M.

PRITCHETT LOUNGE
11:00 A.M.-12 MIDNIGHT

TECHNOLOGY DINING HALLS
Walker Memorial Building