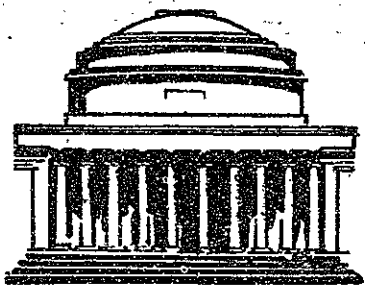


The Tech



Volume LVII. No. 29

CAMBRIDGE, MASS., TUESDAY, JUNE 8, 1937

Price Three Cents

DEGREES CONFERRED ON 513 TODAY

Compton Stresses Role Of Science In Baccalaureate

Seniors In Cap And Gown March To Old South Church Services

Rogers Building Takes Part In Ceremonies For Last Time

Institute's Historic First Home Will Be Razed Next Year

Explaining the new order of science and its place in the world of today, Dr. Compton's delivery of the Baccalaureate Sermon was the highlight of the baccalaureate services held Sunday afternoon in the Old South Church for the 1937 graduating class of the Institute.

President Compton's address was part of the service conducted by the Rev. Russell Henry Stafford, minister of the Old South Church. The service followed a procession of the graduating class from the Rogers Building on Boylston street to Copley Square. David S. McLellan, president of the class, George B. Wemple, G. Richard Young, and Arthur Zimmerman, class marshals, led the procession, garbed in the traditional caps and gowns. Ceremonies this year last for Rogers Building

This year's ceremonies hold a special interest, in that this year is the last time that they will center about the Rogers Building, one of the cradles of the Institute. Next year that historic edifice will be demolished as a consequence of its recent sale by the Institute.

(Continued on Page 4)
Baccalaureate

Seniors Present Gift Of Drinking Fountain

Lobby Of Library Will Be Site Of Class Presentation

A marble drinking fountain to be placed in the lobby of the main library will constitute the gift of the Class of 1937. It will be placed on the side of the lobby nearest the windows between the elevators. A bronze plaque inscribed "Gift of the Class of 1937" will be set into the stone.

For the first time in several years the plan of making part of a life insurance policy payable to the Institute has been abandoned in favor of

(Continued on Page 3)
Senior Gift

Larger Activities Asked By Compton

Present Facilities Inadequate He Reveals To Alumni At Dinner

That the Institute has inadequate facilities for extra-curricular activities, and that these facilities must be improved as soon as possible, was stated by Dr. Karl T. Compton in an address at the Alumni Day dinner at the Statler Hotel last evening.

"Our curriculum requirements are recreation, social intercourse, and the development of avocational interests is small. It is therefore more than usually important that adequate facilities be provided to encourage these if our students are to develop the breadth and the cultural background that are so important an element in their happiness and future effectiveness. Our facilities in these lines are far from adequate in our present situation."

Illumination of work necessary, says Compton

In connection with the things needed to improve and broaden the scope of the Institute Dr. Compton said, "But of all the things which we need in this direction, I now put first and foremost those things which will humanize our work — things largely though not exclusively extra-curricular. There are very few educational institutes of which I would venture such a judgment; in far too many cases extra-curricular interests are

(Continued on Page 4)
Compton's Alumni Speech

Class Day Audience Hears Many Speakers

Beaver Orator Peters Upholds Abilities Of Tech Men

Technology men may drink beer before breakfast, but on the whole they are a rather well behaved crowd, according to Philip H. Peters, Beaver Orator at the Class Day exercises yesterday afternoon.

Speaking before about 200 alumni, seniors, and guests in Lowell Court, Peters lauded the efforts of the Technology men to be self-sufficient and self-governing in school work as well as in extra-curricular activities.

\$1,000,000 loaned out

As a sign of ability of Institute students to help themselves, the Beaver Orator mentioned the Technology Loan Fund which, since 1931, has handed out more than \$1,000,000.

(Continued on Page 3)
Class Day

Experts Discuss Housing Trends At U. S. Parley

World Known Authorities Talk To National Conference At Institute

Exhibits Placed On Display

A capacity crowd attended the National Housing Conference yesterday morning in 10-250 to hear four internationally known authorities on the subject discuss trends in housing projects. In the west wing of Building 2, a housing exhibit was on display.

Sir Raymond Unwin, noted British housing expert, speaking on "The Social and Economic Aspects of Shelter", stressed the fact that adequate housing is necessary to maintain a proper standard of living in the community. The high initial cost of a dwelling prevents a great number of the people from owning a home and even rent equal to the cost of of keeping the house is too great on any but inferior dwellings. Only through outside assistance, maintained Sir Raymond, can the great mass of American families be enabled to live in decent dwellings.

John E. Burchard, '23, vice-president of Bemis Industries, Inc., spoke

(Continued on Page 4)
Housing

George Campbell, '40 Killed In Auto Upset In Syracuse, N. Y.

Vacation Catastrophe Injures Burdell And Morrison Of Institute

George Franklin Campbell, '40, was killed and three other persons, two Institute students, were injured when the automobile in which they were driving left the steepest section of the Cherry Valley Turnpike, outside of Syracuse, New York on Wednesday, June 2. John B. Burnell, '40, Willard Morrison, '40, and an aunt of Burnell were driving home from Boston when the fatal accident occurred.

Graduate of Culver

Campbell had completed his first year at the Institute, where he was enrolled as a student in option I of Course XV. He entered Technology

(Continued on Page 4)
Death

Poets, Crepe Hangers Get Honors Of Class

Two Serious Awards Are Given To McLellan And Wemple

An award was made not only to the man who "has done the most for M. I. T.", but also to the man "who has done M. I. T. for the most" in the annual presentation of class awards at class day yesterday.

David S. McLellan, President of the Class of 1937, was awarded one of the two serious titles,—"the man who has done the most for M. I. T." Application was also expressed to George B. Wemple when he was dubbed "most likely to succeed."

The other appellations were more in keeping with the spirit of the day: class red or C. I. O. member—Philip R. Scarito; prettiest boy—Leo C. Avondoglio; has done M. I. T. for the most—Francis E. Neagle, Jr.; class

(Continued on Page 4)
Class Meets

Dunn Gives Address To The Class Of '37 At 70th Graduation

"If the key to the scientist is thought, the key to the engineer is action," said Mr. Gano Dunn, President of the J. G. White Engineering Corporation, at the seventieth graduation exercises of the Institute, in Symphony Hall today.

Engineering Involves Economy

This statement, epitomizing the essential difference between the scientist and the engineer, together with a definition of the relation of the engineering field to the other diverse branches of human effort which go to make up our present civilization, constitutes the main point of Mr. Dunn's address. In his opinion, engineering is the art of the economic application of science to social purposes, and, hence, the successful engineer must possess not only a thoroughgoing knowledge of human relations but also a keen sense of economy.

Contrast of Engineer, Scientist

"It is in this hot crucible of the economic test that all an engineer does must be tried," asserted Mr. Dunn, continuing with the economic aspect of the engineer's profession. "Economics is not a physical science. It is a social science, bringing in problems of the human spirit and the behavior of man as man, and it is because the engineer's art deals with dollars and economic relations that he is bound into the great business structure of society in a way that the scientist is not. Being bound into this structure, he must be a man among men. He must be able to make his views prevail. He must be able to give blows and to take them."

Need for Cultural Training

"If an engineer's training neglects the great human mirrors of history and languages," continued Mr. Dunn,

(Continued on Page 4)
Gano Dunn commencement address

Good Wishes Radioed By Philippine Alumni

Bromilow, Reyes, Tedeama Talk To Technology

Members of the Technology Club of the Philippines, at a dinner in Manila yesterday, sent their good wishes to the Institute in a radio telephone conversation with President Karl T. Compton and officers of the Technology Alumni Association.

President Edmund G. Bromilow, '27, of the Philippines Club was the first to speak to a member of the Alumni Association when he talked to its president, Donald G. Robbins. '07. Dr. Francisco D. Reyes, '08, oldest Technology graduate living in the Philippines and the first to speak with President Compton, sent his good wishes to the alumni through him. Ernesto B. Ledezama, '23, secretary of the Manila Club, spoke to Professor Charles E. Locke, '96, alumni secretary. Then all the members of the far eastern club had a word with President Compton and the alumni officers. To make possible the conversation, all the members of the Manila Club were equipped with transmitting and receiving radio telephone sets.

With prospects for beginning their careers in the various professions of science and engineering better than at any time for several years, 505 men and eight young women were awarded degrees at the Technology's seventieth graduation exercises in Symphony Hall at noon today.

For nearly an hour, while several thousand parents and friends looked on, the candidates in cap and gown moved down the aisles to receive their degrees from Dr. Karl T. Compton, President of the Institute, who expressed to each his good wishes for the future. The long line of candidates for degrees marched into the hall a few minutes before 11 o'clock and then, while they stood, the academic procession of guests of honor, the corporation and the faculty entered the stage. Leading the procession was Alexander Macomber, who for many years has been chief mar-

(Continued on Page 3)
Graduation Exercises

Awards Of \$100,000 For Graduate Study Announced By Dean

Fellowships Of \$500 To \$1000, 135 Scholarships Also Given

Fellowships and scholarship awards amounting to nearly \$100,000 for graduate work during the academic year of 1937-38 were announced recently by Dr. Harry M. Goodwin, Dean of the Graduate School.

The Redfield Proctor Traveling Fellowship for advanced work in mathematics at Cambridge University was awarded to Donald C. Spencer, '36. The fellowship carries a stipend of \$1,500.

Moore Fellowship Awarded to Hughes
The Moore Travelling Fellowship in the field of Chemistry was awarded to Walter L. Hughes, Jr., '37, who will receive \$1,500 for study.

The Arthur D. Little Post-Doctorate Fellowship in chemistry, also valued at \$1,500, was awarded to Joseph Kaminsky, '34.

Other Fellowships awarded were the Sloan Automotive Engineering Fellowship, \$1,000, Greer Ellis; Arthur D. Little Fellowships, \$1,000, James W. Libby, Jr., '37, and Ernest O. Ohsol; Genrado Trust Fellowship, \$1,000, James A. Cronvich; Du Pont Fellowship, \$750, Thomas H. McCon-

(Continued on Page 3)
Fellowships

Mal Hallett To Play For Seniors Tonight

Senior class activities will conclude tonight with the annual senior ball in the main ballroom of the Hotel Statler. Over three hundred couples are expected to dance to the music of Mal Hallett's recording orchestra between the hours of ten P. M. and three A. M.

Members of the senior ball committee are G. Richard Young, chairman; Ralph B. Chapin; Winthrop A. Johns, and John R. Ferguson.

Professor Schell's Class Day Talk Shows Today's Teaching Technique

Professors cutting capers make a rather interesting picture on a drowsy summer afternoon, and so the sight of staid Professor Erwin H. Schell of the Business and Engineering Administration Department trying to display the latest classroom technique on his crowsy colleague, Professor Albert A. Schaefer, was an edifying sight at the Class Day exercises yesterday afternoon.

In introducing Professor Schell, William J. McCune, Jr., who presided at the exercises, explained that the

mentor's nickname was "Weanie" for two reasons. One, for his name.

"It is very easy to get 'Weanie' from 'Erwin'," McCune explained. "From 'Erwin' comes 'Win', from 'Win' comes 'Winnie', and, finally, from 'Winnie' comes 'Weanie'."

The second reason, according to the Class Day chairman, was that Professor Schell's nature, like the famous "wienerschnitzel", was made up of many component parts, some serious

(Continued on Page 4)
Alumni Stunts

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ADVICE

IN A FEW WORDS

COMMENCEMENT days always bring forth deluges of advice, some of it excellent, some good, some useless. The Institute's graduates have already received more than they can probably absorb. We do not feel capable of giving better advice than they have already received, but out of all the speeches we have read and heard a few phrases of Dr. Compton's baccalaureate sermon remained in our mind, and we should like to repeat them here:

"Some students have the mistaken idea that after graduation they quit learning and begin to practice. . . . But the real fact is that graduation should be no such sharp break as this. . . . There is an infinite lot for you still to learn, and your college career is no blessing unless it has done two things far more important than giving you the knowledge and skill which you now possess: one of these things is some realization of how much there is still to learn, and the other is a training and an eagerness which will keep pushing you ahead continually to extend your knowledge and improve your skill."

CONFERENCES

SERVE A PURPOSE

THE National Housing Conference held yesterday is but another indication of the part the Institute plays in the working out of the nation's problems. It is not likely that the conference will revolutionize housing procedure, but in the opportunity such a meeting provides for the exchange of views between the leaders in the field the conference provides a very real service.

Although, as we have said, the conference will in all probability not find any solution to the present housing problems of the country, it ought certainly to go far toward clarifying the issues surrounding house-building.

It is in this that the value of such national conferences lie, in that they serve to clarify the problems in muddled fields and to restate them in a manner that may make a solution more readily attainable.

The subjects chosen for the first two conferences sponsored by the Institute — last year's transportation colloquium and this year's housing colloquium—are large, so large and complicated that immediate solution is impossible. And yet the problems are pressing, and failing an actual immediate solution, a clarification of the issues involved can be of great value in determining along what lines a solution should be sought.

These remarks apply in general terms to a great many of the problems that confront us today, and the Institute is to be commended for providing an opportunity for the leaders

in the fields involving these issues to meet and discuss the problems. Apparently it is the Institute's policy to continue holding these conferences, a policy with which we heartily agree.

LEFT BEHIND

LAMENT OF A SUMMER SCHOOL STUDENT

REFLECTIONS after exams while waiting for summer school to start. Are we glad those are over! And did we work our heads off! And did we flunk them? Trouble is, there's nothing to do until that summer school starts. And too lazy to do it anyway. Play tennis? Not in this sun. Go swimming? Where? Loose ends and nothing to tie them up with. Can't think of anything to do. Can't sleep all the time. Or can we? Let's call some girls! Who? Where will we get the money to go out? No studying any more, thank God. But at least it would be something to do. Seven more weeks till we can go home. Wonder if the girl friend still cares. What's the difference anyway? When do grades come out? Too soon, probably. Wonder what the rating will be this time. It's all over now so what's the difference? Lot of fun to start a riot or block Memorial. Too much trouble, though. What's the use?

FIRST STEPS

IN A PERIOD OF GROWTH

ALUMNI visiting the Institute this week have come at the beginning of a period of rapid growth and transition. Next year at this time the Rogers building will be at the end of its period of service. A large addition to the present buildings will have changed the entire appearance of the Institute from the Massachusetts Avenue side. Some of the Institute departments will have expanded when the new building makes space available. Perhaps the new gymnasium will be built or partly built, and the familiar Hangar removed.

All of these changes, though somewhat sadening because they mean the loss of old landmarks, are the outward signs of Technology's progress. The Institute might have felt secure in its reputation of pre-eminence, might have been content to rest on that reputation. But resting is the surest way to lose that pre-eminence. Under Dr. Compton's far-sighted leadership, weak points have been strengthened and cooperation between related departments has been increased. New fields of study are being developed. Biophysics is an example of a borderline science in which the Institute is pioneering. Other departments are working along new and promising lines.

Most of these developments are not well known outside the groups that are intimately concerned with them. The construction of the George Eastman Laboratories was the most prominent outward sign of a planned development of the Institute's research in pure science that has been going on steadily if quietly for a number of years, to the point where many connected with Technology do not realize to what a high plane this branch of the Institute has been developed.

We might cite many other examples, but a few will suffice. The latest department which will expand to meet new needs is the biology department, which after careful planning is inaugurating a pioneering course in Biological Engineering. A new wind-tunnel to keep our outstanding aeronautics department in the forefront is also a definite project. Further development of the comprehensive high-voltage research plan is still another part of the expansion program. Student needs outside of those strictly scientific and engineering are also being taken care of. The organization of the Division of Humanities, under a Dean, is another step on the part of the Institute to raise the importance of cultural subjects, so often and so easily neglected in a school of this type. The planned construction of new dormitories, the new gymnasium, and the addition to Walker Memorial which, we hope, is not too far distant, are the physical benefits which students will obtain.

Technology's present expansion program will be an outstanding landmark in the history of the Institute's progress. The alumni, students, and staff present here today are witnessing, and some are participating in, the first steps in the building of this landmark.

REVIEW of the YEAR

As Gleaned From The Tech's Headlines

First Term September

Three hundred freshmen leave for three-day camp at Lake Massapoag. The Coop announces new building.

Largest registration since 1932 — 2751 students. Freshmen number 659, including fifteen co-eds.

October

President Compton announces twelve and a half million dollar expansion program, featuring biological engineering laboratories, new wind tunnel, naval towing tank, high voltage research, additional fellowships and research funds, a new dormitory, and a gymnasium or addition to Walker Memorial.

Students vote nine to five for Landon Roosevelt in The Tech straw poll. Freshmen and sophomores bar egg-throwing at Field Day.

Tech Show shows signs of life, offering prize for script.

Sophomores defeat freshmen in field day events, 8-7, winning crew, tug-of-war, and relay.

November

Gymnasium - auditorium argument grows; Tech Union sponsors discussion. Alumni committee appointed to investigate and make recommendations.

Students overwhelmingly favor Tech Show, Open House, in The Tech poll.

December

Institute Committee revamps Open House policies.

Machine completed here to solve nine simultaneous linear algebraic equations.

New stabilization plan announced, restricting number of sophomores allowed to enter each course.

Special Open House Committee appointed by Institute Committee.

January

Most powerful magnet ever built developed at Institute.

Gifts since last July totalling almost half a million dollars announced to Corporation; majority will be used for expansion plan.

Inadequacies of Walker Memorial being studied by Walker Memorial Committee.

Institute announces change of compulsory feature of freshman and sophomore R. O. T. C. instruction, permitting substitutions by conscientious objectors.

Junior Prom Committee chooses Statler hotel for affair, calling Walker Memorial "inadequate."

Institute receives one million dollars by will of the late Charles Hayden, '90, financier and corporation director. Will serve as nucleus for expansion plan.

Combined Professional Societies opposes holding Open House this year, suddenly reversing former stand.

Second Term February

Post-exam celebrators paint "Tech Is Heil" on new Coop building.

Open House eliminated this year as Institute Committee follows lead of faculty poll.

Freshman jailed for stealing burlesque star's panties in fraternity initiation stunt.

Definite plans for new, up-to-date wind tunnel announced by President Compton.

Colonel Vestal resigns as head of Military Science Department.

March

Dr. Compton criticizes Teachers' Oath Law as repeal hearings start. Boxing removed from list of intercollegiate sports at Technology.

Program of scholarships for fifteen promising young executives to give them special twelve-month training course announced by Dr. Compton.

Elihu Thomson, noted scientist and former Institute president, dies at age of 83.

Tuition raised to six hundred dollars, beginning in fall of 1938, in anticipation of continued inflationary trend.

Interfraternity Conference Dance instant sell-out when Benny Goodman, "King of Swing," is engaged.

Tennis courts made free to students and faculty, who also get preference over others.

Dr. Compton tells of plan for "super-machine" to multiply value of library files.

April

New phonograph with collection of records donated to Technology by Carnegie Corporation.

Technology Coop opens new, modernistic building.

Institute sells Rogers building and all other Boston property. New Architecture school will be built on Massachusetts Avenue, large enough to allow expansion of several other departments.

Department of Mining and Metallurgy split into two separate courses.

Professor Burdell appointed to new position, Dean of Humanities, to consolidate cultural courses.

Classes suspended for one hour for All-Tech Peace Conference.

Alumni committee favors gymnasium as more urgent need than addition to Walker Memorial.

Technology men selected as intercollegiate debating champions.

Institute sailors win Intercollegiate Yacht Racing Association championships.

Wallace, Wingard, Foster, win class presidencies in annual election.

May

First off-campus riot since 1932 results in five arrests after student block Memorial Drive traffic.

Institute's acceptance of invitation to Goettingen University festival modified after storm of protest.

Technology's first and only crew coach, William C. Haines, resigns, after fourteen years service, by request of Alumni Advisory Council on Athletics.

Institute 150-pound crew wins in

(Continued on Page 3)

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Coach Oscar Hedlund Traces Track Careers Of Graduating Stars

Guerke, Sabi, Cooper, McLellan
Commended By Mentor
Of Cinders

By Oscar Hedlund

Every year in June, Tech mourns the loss of great athletes by graduation and again track loses such stars as Henry Guerke, Gene Cooper, Nester Sabi, and David McLellan, a grand group of scoring members.

The leading scorer, Captain Guerke, came from Somerville High with no experience whatever in track. He reported to me in the fall of 1933 to substitute track for P. T., started out in Cross Country, and in a short time was elected Captain of the frosh team. In the I. C. 4-A Championship at Van Cortland Park, he finished 5th. As an upper classman, he improved very fast. He was out of the C's in 1934 due to an appendicitis operation, but in 1935 he came back strong to finish 13th in New England and 19th at New York in the I. C. 4-A's. At the 1936 New England he finished 9th and at the race at Van Cortland Park, New York, in the 15th position. This year again he was up in the list,—13th at Franklin Park and 19th at the I. C. 4-A's.

During his freshman year he broke the freshman mile record twice and his last mile mark of 4 min. 32.0 sec. still stands. As a varsity man he bettered a mark made in 1915 by W. McLahon, '16, of 4 min. 24.4 sec. lowering it to 4 min. 23.2 sec. His greatest piece of work was done at Brown this spring when he tied for 1st in the 80, 1 mile, and 2 miles, in each case helping his teammates to score with him. Always thinking of points instead of personal victories.

Henry's greatest race was last winter indoors at the I. C. 4-A Championships when he lost first place by inches to P. N. Smith of Rutgers. Many spectators thought it was a dead heat. It would have been a great feat as no Tech man has ever won the 2 mile championship. The spring he won the New England 2 mile race easily.

Another runner came to me as a freshman from Winchester by the name of Gene Cooper who started as a sprinter but became a very good middle distance runner. As a sophomore he won the 800 meter race at the Stadium when Italy sent their 25 best Athletes to U. S. A. to compete in different cities. They raced against selected teams from nearby colleges and Cooper raced to a win in 2 min. 0.2 sec. Gene was a member of the record-breaking relay team that created a new record this winter when they beat Yale in 3 min. 29.2 sec. This spring he finished 3rd in the New England mile in fast time, 4 min. 24.8

sec. not far from Guerke's record. He is honor student as well as a real track man.

A boy from Cuba by the name of Nester Sabi came to me as the previous boys, but he ran 440 yds. close to 50 flat. This winter he jumped 5 feet, 10 inches indoors, a real leap for a runner. His best race was the spring when he ran a quarter in 50.6 sec., against Bates College, to win by 15 yards.

Sabi was also in the record-breaking relay team and great deal of credit is due him as he was anchor man. He has been a constant winner for four years and scored in 100, 220 and 440 in all of our dual meets.

Al Faatz, the third member of the relay team spent most of his time on the hurdles, scoring in the New England last year and holds the freshman record for the low hurdles of 25.0 sec. flat.

The President of the Senior class, Dave McLellan had helped track until this year when, because of his duties, he could not do track. While running he created a new 300-yard record of 33.4 sec. on the boards, and scored in the New England last year in the 220. Dave was the fastest relay boy Tech has had since George Leniss and Dick Berry graduated. His greatest quarter was against O'Brien of Pittsburgh when Pitt beat Tech by inches (1936) in the fast time of 3 min. 27.0 sec.

What would have happened if Dave had run this winter? The record could have been close to 3 min. 27.0 sec.

Others who graduate are Thomas Kinraide, a hammer-thrower, Francis Houghton and Ed Corea, sprinters, Ed Brittenham, of the javelin, Norman Matthers, Dick Hutchinson and Earl Wagner of Cross Country. With a large group going out we will look to some of the frosh to come up and eventually take their places. The promising boys are Wirth, Crosby, Hoffman, Carrsen, Libby, Loomis, Gunaris, Gilbert, Tendall, and Adams.

Class Day

(Continued from Page 1)

Of the sum that has already become due, more than \$200,000 or 74 per cent has already been returned.

"Only six percent of the sum due has not been accounted for," he explained. "Since the taken in interest is \$65,000, the \$12,000 loss is rather negligible."

In addition to Peters' address, remarks were heard from Mr. Donald G. Robbins, president of the Alumni Association, from Professor Erwin H. Schell of the Class of 1912, and from Mr. Gelett Burgess of the Class of 1887.

Mr. Burgess, the author of such well-known books as "The Purple Cow" and "Are You a Bromide", expressed the belief that happiness is a direct function of the amount of work which a person accomplishes, if this work is to his taste.

He explained that his personal equation for happiness was to get younger each year. In fact, he said, he was nominating himself right then and there a member of the class of 1937, having progressively moved his graduating year up since his real commencement in 1887.

Class Ring Passed On

After the addresses, David S. McLellan, president of the Senior Class, presented a large class ring to John J. Wallace, president-elect of next year's Senior Class, in an impressive, symbolic ceremony.

In addition, he accepted the class banner, on behalf of his class, from the Alumni Association represented by Mr. Donald G. Robbins, its president, and Professor Charles E. Locke, its secretary.

Graduation Exercises

(Continued from Page 1)

shal of Technology's graduation processions.

Guests of Honor Follow

Following the chief marshal in the procession of the guests of honor were Dr. Compton, President of the Institute, who escorted Governor Charles F. Hurley; Dr. Vannevar Bush, Vice-President of Technology, with Mr. Gano Dunn, President of the J. G. White Engineering Corporation, and the commencement speaker; and Dean William Emerson of the School of Architecture with the Reverend C. Leslie Glenn, Rector of Christ Church, Cambridge, who gave the invocation; Major A. D. Fiske of the Institute's Military Science Department, escorted Major General Fox Conner, Commandant of the First Corps Area of the First Army and Professor Henry H. W. Keith, Head of the Department of Naval Architecture and Marine Engineering, marched with Admiral W. R. Gherardi, Commandant of the First Naval District. Then followed Dean Harry M. Goodwin, of the Graduate School, with Mayor Frederick W. Mansfield of Boston; Dean H. E. Lobdell with Mayor J. D. Lynch of Cambridge; Professor H. E. Russell with Captain J. W. Woodruff, Aide to Admiral Gherardi; Professor C. E. Fuller, Chairman of the Faculty and Mr. Donald G. Robbins, President of the Alumni Association; Professor G. W. Swett, Secretary of the Faculty, and Professor Charles E. Locke, Alumni Secretary; and Mr. J. C. MacKinnon, Registrar with Professor Ralph G. Hudson, chairman of the committee on graduation exercises and senior week.

Corporation Division

The Corporation division was led by Mr. Walter Humphreys, Secretary of Technology's Corporation, from which the members attending were: Horace S. Ford, Russell R. Hart, Redfield Proctor, Edwin S. Webster, Gerard Swope, Harry J. Carlson, Franklin W. Hobbs, William R. Kales, John E. Aldred, Victor M. Cutter, Alfred L. Loomis, John J. Pelley, Harlow Shapley, Franklin A. Park, Frank R. Jewett, Godfrey L. Cabot, William C. Potter, Philip Stockton, Ralph E. Flanders, Bradley Dewey, James M. Barker, Donald G. Robbins, Lewis S. Gates, Hovey T. Freeman, Harold B. Richmond, Arthur C. Dorrance, Rufus E. Zimmerman, B. Edwin Hutchinson, William S. Newell and James G. Reardon, Commissioner of Education.

Class of 1887 Led by Prescott

The Class of 1887, honored on the fiftieth anniversary of its graduation, was led by Dr. Samuel C. Prescott, Dean of Science. Members of the class who marched in this division were Benjamin C. Lane, Winthrop Cole and Frank F. Tripp of Boston; Henry B. Brainerd, Dover; William H. Brainerd, Wellesley; Franklin Brett, Duxbury; N. P. Ames Carter, Chicopee Falls; Ralph E. Curtis, West Roxbury; Walter S. Moody and William R. Thomas of Pittsfield; Giles Taintor, Cambridge; Oscar E. Nutter, Newton Upper Falls; Franz H. Schwarz, Lawrence; Charles A. Barton, Long Island City, New York; H. E. Smith, White Plains, New York; Gelett Burgess, George L. Norris and Philip A. Mosman of New York City; William C. Cushing, Philadelphia, Pa.; Albert L. Cushing, Pawtucket, Rhode Island; Edward O. Goss, Waterbury, Conn.; Arthur R. Nickels, Bath, Maine; William B. Blake, St. Petersburg, Fla.; Herbert A. Wilcox, South Pasadena, Cal.; and Lonsdale Green, Richard E. Schmidt and Solomon Sturges of Chicago, Ill.

The Class of 1912, twenty-five years out, was represented by Harold E. Keillon, the well-known New York architect.

Russell Faculty Marshal

Professor George E. Russell was marshal of the faculty, of which 121 members attended the ceremony. With Professor J. J. Eames as faculty marshal the procession of the candidates for degrees was led by David S. McLellan, president of the Class of 1937, of Newton, and the Class Marshals, George B. Wemple of Chicago; G. Richard Young of New York City;

and Arthur H. Zimmerman of Buffalo, New York.

At 11 o'clock Mr. Macomber made the formal announcement of the opening of the graduation exercises and Mr. Glenn then gave the invocation. President Compton introduced Mr. Dunn, the commencement speaker, whose subject was "The Profession You are About to Enter."

R. O. T. C. Commissions Presented

Commissions in the Reserve Officers Training Corps were presented by Major General Conner following presentation of the academic degrees and announcement of the scholastic honors.

Dr. Compton's address to the graduates closed the exercises.

This afternoon President and Mrs. Compton will be hosts to the graduates and their parents, as well as alumni of the Institute, at a reception at Walker Memorial. In the receiving line with them will be Dr. and Mrs. Vannevar Bush, and Mrs. Marshall B. Dalton, president-elect of the alumni association, and Mrs. Dalton.

Review of the Year

(Continued from Page 2)

tercollegiate Henley regatta in new light-weight boat.

New England Intercollegiate track meet held here. Technology finishes eighth.

Stratton Prize winners announced. Co-ed among them for first time.

Institute Committee starts investigation of honorary societies after fuss over Beaver Club elections.

T. C. A. revives Tech-In-Turkey plan, but refuses \$400 contribution from Turkish school.

Dormitories announce new plan to hold desirable freshmen against fraternity rushing.

Fellowships

(Continued from Page 1)

ica; William Sumner Bolles Fellowship, \$1,000, Thomas F. Reed; Henry Saltonstall Fellowship, \$500, Walter R. Hedeman, Jr., '35; Susan H. Swett Fellowship, \$500, Sumner Y. Andelman; Louis Francisco Verges Fellowship, \$500, William S. McClenahan; Frank Hall Thorpe Fellowship, \$500, Albert C. Faatz, Jr., '37.

Many Other Lesser Awards

In addition to these fellowships Dean Goodwin announced that eighty-eight scholarships of \$500 each and forty-seven of lesser amount had been awarded to students in residence. Awards covering tuition were made to fifty-two teaching fellows in the science departments and fifty-four assistants in the engineering departments who are working for higher degrees.

Senior Gift

(Continued from Page 1)

the immediate payment of a dollar by each member of the senior class.

The fountain is being designed by Conover Fitch, a member of the Senior Class in the course of architecture. It will be made by Sydney G. Bentley and Troy Bros.

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SCHOOL OF ENGINEERING		
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Business and Engineering Administration	Options: Chemical Engineering Civil Engineering Industrial Practice Mechanical Engineering	General Power Production Refrigeration and Air Conditioning Textile
Chemical Engineering Chemical Engineering Practice Civil Engineering	Options: General Geodesy and Seismology Hydroelectric Transportation	Military Engineering Mining Engineering and Metallurgy Options: Metallurgy Mining Engineering Petroleum Production Physical Metallurgy
Electrical Engineering Communications Co-operative Electrochemical Engineering		Naval Architecture and Marine Engineering Ship Operation Sanitary Engineering

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A five year course is offered which combines study in Engineering or Science and Economics or other social sciences. This leads to the degree of Bachelor of Science in the professional field and the degree of Master of Science in Economics and Engineering or Science.

Graduate courses leading to the degrees of Master of Science, Master in Architecture, Doctor of Philosophy, Doctor of Science, and Doctor of Public Health are offered. A course in Public Health is offered, which is essentially equivalent to that prescribed for the degree of Master of Science, and leads to a Certificate in Public Health.

Graduates of colleges or of scientific schools of collegiate grade, and in general all applicants presenting satisfactory certificates showing work done at another college corresponding approximately to at least one year's work at the Institute, are admitted to such advanced standing as is warranted by their previous training, and are given credit for our required subjects, including the entrance requirements, so far as they have been satisfactorily completed.

The Summer Session extending from June to September includes most of the subjects given during the academic year.

For information about the methods of admission from secondary schools, communicate with the Director of Admissions.

Any of the following publications will be sent free upon request:

- Catalogue for the academic year
- Summer Session Catalogue
- Architectural Education—Undergraduate and Graduate
- Educational Opportunities at the Massachusetts Institute of Technology
- The Graduate Schools of Science and Engineering

Correspondence should be addressed to the Director of Admissions

Alumni Stunts

(Continued from Page 1)

some humorous. And so the Professor proved.

Displayed Teaching Technique

After being introduced, Professor Schell appeared, bowed seriously, and announced that his subject would be a demonstration of the latest teaching technique as employed at the Institute.

"I postponed one of my graduate classes until today," he explained. "But since I have only one student in that class, and he is usually late, we will commence at once."

Just as he said this, the rather obese figure of the supposed student appeared, his face red, panting, his cheeks puffed. It was Professor Schaefer, in the guise of the graduate student.

The first thing the student did was to fall asleep. Only the sound of a bell, ringing in the Institute, roused him from a very real looking slumber. So realistic indeed were Professor Schaefer's actions that one would almost suspect that he has had some little experience in sleeping in classes.

So with his "attentive" student quietly dozing away, Professor Schell proceeded to give his lecture, in the most advanced, scientific way. Starting with Business Administration, he ran the gamut of Technology's courses, illustrating the new method of teaching physics by the rhythmic repetition of its basic phrases:

"Electron, neutron, positron, deuteron," he chanted, while his student accompanied him on the drum. The audience almost rolled out of its respective chairs, while President Compton on the stage grinned broadly.

So the lecturer proceeded, enumerating the properties of rubber which its colloidal state imparts to it, and illustrating these properties with a sling shot which he used most effectively on his student. But this time Professor Schaefer was not caught napping, for he very quickly produced another sling shot and the duel was on, while the audience roared.

When it was all over, and the last shot had been fired (literally, for Professor Schell has finally decided, in despair, that it would be more merciful to shoot the student) the audience was still laughing, and the students wondered what Erwin Schell and Albert Schaefer were like at some Class Day twenty-five years ago when their professors cast dignity to the winds and recaptured, for a while, the spirit of their undergraduate days.

Class Masts

(Continued from Page 1)

Milquetoast—Verne C. Frost; best string-puller—William J. McCune, Jr.; Course XV bull artist—H. Arthur Zimmerman; second best prof—Fairfield E. Raymond; favorite girls' college besides Tech—Harvard; class economic royalist—John "Buxton" Pitkin; should receive solid bronze brown bag—Frederick P. Baggerman; most poetic—Raymond A. Dreselly; class crepehanger—John C. Robbins, Jr.

The presentation speech was delivered by Jervis C. Webb.

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Baccalaureate

(Continued from Page 1)

For the text of his address Dr. Compton took the Biblical quotation, "Well done, good and faithful servant, thou hast been faithful over a few things, I will make thee ruler over many things. Enter thou into the joy of the Lord." The application which he expounded to the members of the graduating class was that through many and various channels they had received and acquired certain talents and that the test of their character was to be found in the manner in which they applied those talents. From this generalization, he went to a more concrete instance, saying that the talents which science had enabled man to grasp made possible a new and enlightened manner of living, and that it was for today's graduates to further that new and enlightened mode.

Two types of talents

Dr. Compton separated the talents which men gain up to the time of their majority into two groups—hereditary and acquired. He laid great emphasis upon these talents, saying: "From the world you have received certain talents, some ten, some five, some one. These talents are the possessions with which you are endowed and, whether you wish it or not, they are responsibilities for which the world will hold you inexorably accountable."

The inherited talents he classed under one heading—personality, which he defined in these words: "One talent is your personality. Without effort or desire on your part you have been endowed with a certain physical appearance, physical strength, native mental ability and nervous temperament."

First among the acquired talents, Dr. Compton mentioned wealth, defining it as "those things external to yourself which may be an asset to you in your careers. These include your bank account and other actual or potential financial resources; they include also your group of friends and acquaintances, your family or business connections; among these assets are your diploma from M. I. T. and the prestige and support of its alumni body, its placement bureau and the friendly interest of your professors."

Secondly, Dr. Compton spoke of knowledge in these words: "Still another talent is the knowledge which you have acquired through experience, and study. As in the other cases, each of you has his own particular amount and kind of knowledge."

Skill was the last talent of which Dr. Compton talked specifically, saying: "... while you have been acquiring knowledge, you have also been developing skill in its applications. ... I hope all of you have also developed ... supplementary skills in speaking and writing and in some avocational lines like athletics, music, dramatics, debate, and art. To a greater or less extent each of you has some skill in dealing with people, in the important art of human relationships which include tact, judgment and the social properties."

Then Dr. Compton enunciated the major point of his address—that the problem now facing the graduate was how he was to handle his talents—in these words. "... the times will inevitably come when the world will call on you for an accounting of manner in which you have handled your talents ... If you invest them wisely, you can increase them and improve them. If you neglect them, you will be like the wicked and slothful servant, and you will suffer an analogous fate ... What you have today the

world has largely given you; what you will have made of it when the world calls you to account is up to you."

At this point, Dr. Compton emphasized the fact that learning should not cease with graduation, by saying: "... you have only just enough to start out with. There is an infinite lot for you still to learn." He condemned men who "become like cogs in a wheel, going round and round and never getting anywhere; performing some useful functions to be sure, but not living up to their opportunities and therefore, by any exacting standard, moral failures."

He summed this up by defining character as the manner in which we improve our talents, and in this connection mentioned the responsibility which "every opportunity carries with it."

Here, President Compton introduced the second major theme of his address, that "... science has given mankind, for the first time in the history of the human race, a way of securing a more abundant life which does not simply consist in taking it away from someone else." He supported this with the contention that "science really creates wealth and opportunity where they did not exist before. ... Science has introduced a new approach to the basic requirements for a more abundant life—an approach that is humanitarian because it does not involve taking things away from other people; an approach which is constructive because it creates instead of merely redistributes."

Dr. Compton ended his sermon with the following words: "So, you see, your talents in the fields of science and its applications in arts, manufacture and commerce, are of particular value in the world today ... It is you, and men like you, who must use your opportunities so that, when the accounting comes, the world will say unto you, 'Well done, good and faithful servant, thou hast been faithful over a few things, I will make thee ruler over many things. Enter thou into the joy of thy Lord.'"

Death

(Continued from Page 1)

after graduating from Culver Military Academy, where he earned a commission as a reserve officer in the United States Army. In preparatory school he was active in football and baseball. At the Institute, Campbell was a member first of the T. C. A. freshman cabinet, then of the senior cabinet, in charge of the advisory board on solicitations. He was a member of the Delta Kappa Epsilon fraternity as was Burnell, the driver of the automobile. Delta Kappa Epsilon was represented at the funeral, which was held Saturday at Campbell's home, Evanston, Illinois. The T. C. A. sent condolences and flowers.

Burnell suffered a fractured shoulder, Morrison cuts and bruises, and his aunt was seriously injured.

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Alumni Speech

(Continued from Page 1)

the tail that wags the dog, so far as student interest is concerned."

Financial aid praised

Dr. Compton spoke of the two and one half million dollars received by the Institute in the past year, stating that, "It is such financial aid that enables us to continue our educational program as leaders in the field of technology, independent alike of governmental or other subsidy or pressure on policies, precepts, and personnel. I firmly believe that the endurance of democratic freedom and progress in this land will depend in no small degree on the extent to which our leading privately endowed educational institutions can maintain this leadership and independence. You and others who aid our program by gifts contribute not only to valuable activities, but also to a great cause which is of the first order of social importance for this community and for the nation."

He also stated that an increase of funds available for scholarships and loans was necessary before the tuition raise in the fall of 1938. Although "it is entirely proper that students who are financially able should pay at least a major portion of the cost of their education," he said, "it is equally important, however, that students of extreme promise of becoming valuable members of society, through technological training, should not be deprived of the opportunity to secure the best of this training."

Housing

(Continued from Page 1)

next on "How Homes Will Be Built; the Question Mark of Prefabrication." He distrusted a building subsidy as dangerous politically and economically. Mr. Burchard declared that prefabricators to date have failed in their search for an inexpensive, well-made home. Reasons he gave for the failure of prefabricated housing attempts included unwise choice of materials and failure to produce a product desired by the public chiefly because of incompleteness and unwise design. He believes, however, that there is hope for the success of prefabricating plans through intelligent planning.

Government Agencies Topic of Bohn "What Government Agencies Have Done and Might Do" was the subject of a talk by Ernest J. Bohn, former president of the National Association of Housing Officials. He treated modern housing from the War until the present time. Especial attention was given to the efforts of the recent government agencies during the last three or four years. He mentioned the current efforts to bring about government aid for low cost housing.

Robert D. Kohn, former director of the housing division of the P. W. A. spoke on "Some Possible Ways Leading To Better Housing." He advanced a plan of public cooperation as the only means of bettering public housing conditions.

Dr. Bush presides
 Dr. Vannevar Bush, Dean of Engi-

Gano Dunn

(Continued from Page 1)

"if his mind and heart are not sensible to the great social forces of his day and of his community, if he but feebly develops the subtle qualities of character that make for personality, his career as an engineer is limited, no matter how much science he may know." For this reason, declared Mr. Dunn, more and more emphasis is being laid upon cultural subjects in technical schools, and the shift is away from pure specialization.

Engineer as Business Manager

Mr. Dunn stressed the growing influence of the engineering method of approach to problems upon present-day processes of business procedure. "Not all men with an engineering education take up the practice of engineering," asserted Mr. Dunn. "It is significant how many are drawn to the field of organization and other fields, where the engineering method of approach to problems and the engineering point of view introduce fermenting leaven into many of the processes of traditional business procedure. Partly for this and for other reasons, engineering has become the cornerstone of industry. In the precipitations of relationships brought about by big business and mass production, the function of management has fallen very largely to the engineer."

Thus, in Mr. Dunn's opinion, the engineer's capacity for organization, leadership, and sympathy offer him rare opportunities in the field of business management.

Opportunity for Social Service

Finally, Mr. Dunn perceived an opportunity for social service in the engineering profession. To use his own words, "The engineer now finds himself in a pivotal position in industry, intermediate between capital and labor, with the problems of both of which he deals intimately and is in a position to understand, interpret, and judge. There is in consequence offered to him, entirely in addition to the service which he performs through his professional and personal status which, if he rightly conceives and seizes it, gives him a strategic advantage to render social service, which at this moment the representatives of the older professions do not possess."

neering and vice-president of the Institute, was chairman at the meeting. He gave a brief summary of all the plans presented. The exhibit in Building 2 consisted largely of plans for rehabilitation projects. Especially noteworthy was a complete survey of the north slope of Beacon Hill prepared by J. Ross McKeever of the School of Architecture. Another exhibit that attracted much attention was a model of the house planned and built in Wellesley under the supervision of the students of the School of Architecture.

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