VOL 9

1916

THE TECHNOLOGY ARCHITECTURAL RECORD



PUBLISHED BY THE DEPARTMENT OF ARCHITECTURE

THE

Massachusetts Institute of Technology

CAMBRIDGE, MASS.

THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY aims to give thorough instruction in Civil, Mechanical, Chemical, Mining, Electrical, and Sanitary Engineering; in CHEMISTRY, ELECTRO-CHEMISTRY, ARCHITECTURE, PHYSICS, BIOLOGY, GEOLOGY, NAVAL ARCHITECTURE, and Engineering Administration. The Graduate School of Engineering Research, leading to the degree of Doctor of Engineering, and the Research Laboratory of Physical Chemistry offer unusual opportunities for advanced students.

To be admitted to the Institute, the applicant must have attained the age of seventeen years, and must pass examinations in Algebra, Plane and Solid Geometry, Physics, History'of the United States (or Ancient History), English, French, and German. Preparation in two of a series of elective subjects is also required. A division of these examinations between different examination periods is allowed. In general, a faithful student who has passed creditably through a good high school, having two years' study of both French and German, should be able to pass the Institute examinations.

Graduates of colleges, and in general all applicants presenting certificates representing work done at other colleges equivalent to that required in the first year at the Institute, or more, are excused from the usual entrance examinations and from any subjects already satisfactorily completed. Records of the College Entrance Examination Board, which holds examinations at many points throughout the country and in Europe, are also accepted for admission to the Institute.

Instruction is given by means of lectures and recitations, in connection with appropriate work in the laboratory, drawing-room, or field. To this end extensive laboratories of Chemistry, Physics, Biology, Mining, Mechanical Engineering, Applied Mechanics, and the Mechanic Arts have been thoroughly equipped, and unusual opportunities for field-work and for the examination of existing structures and industries have been secured. So far as is practicable, instruction is given personally to small sections rather than by lectures to large bodies of students.

The regular courses are of four years' duration and lead to the degree of Bachelor of Science. In all courses the work may also be distributed over five years by students who prefer to do so. Advanced degrees are given for resident study subsequent to graduation. Special students are admitted to work for which they are qualified.

The tuition fee, not including breakage in the laboratories, is \$250 a year. In addition, \$30 to \$35 per year is required for books and drawing-materials.

For catalogues and information address

PROFESSOR ALLYNE L. MERRILL, Secretary, Cambridge, Mass.





ROGERS BUILDING, BOSTON DEPARTMENT OF ARCHITECTURE, MASSACHUSETTS INSTITUTE OF TECHNOLOGY THE TECHNOLOGY ARCHITECTURAL RECORD

ANNOUNCEMENT

DURING the summer of 1916 the Department of Architecture will be transferred to the Rogers Building, on Boylston Street. This marks another epoch in its history. When first established, in 1867, the Department occupied the upper floor of Rogers. Later it was moved to the Walker Building, and in 1891 it was transferred to the new building known as Engineering B. In 1898 it again changed its quarters, occupying a part of the Henry L. Pierce Building, on Trinity Place, where it has remained until the present time. And now at last it is to return to its original habitation, but instead of occupying one floor it will take over the entire building.

Rogers can be made to adapt itself remarkably well to the purposes of the Department. Outwardly the building is a fine example of the earliest influence exerted in this country by the École des Beaux-Arts, a really noble structure. The alterations which are to be made in the interior will transform the building into a most acceptable home for a school of architecture. In the autumn the Department will find itself housed under very favorable conditions, with a certain dignity in its surroundings that it has been impossible to realize before, and which cannot fail to exert a stimulating and beneficial effect upon its future work and standing.

The two upper floors will become a series of studios and drafting-rooms. The library will have an admirable position on the Boylston Street front, with facilities for study and research that hitherto could not be obtained. The large expanse of wallspace throughout the building will be used for the permanent exhibition of drawings, photographs, etc. The old lecture-halls and classrooms, with slight changes, adapt themselves admirably to their new purpose, and the executive offices and quarters for the members of the faculty will be more spacious and conveniently arranged than ever before. The old library on the main floor will afford a large exhibition gallery. The Department has always lacked adequate provisions for holding exhibitions which should be easily accessible to the public. Such exhibitions furnish an interesting and very necessary point of contact between the school and those interested in its work, and the opportunities that will be afforded in this direction are significant. As an evidence of these opportunities, at the time of the opening of the building as the quarters for the Department, the Boston Society of Architects, the Architectural Club, and the Society of Landscape Architects will hold a joint exhibition of architecture, landscape architecture, and all the allied arts in the gallery.

An additional feature, long desired, that will now become a possibility, is a "common room" for the students where something of the quality of a social club may be obtained, and where it is hoped to institute regular but informal weekly meetings in the evenings, when all students, members of the faculty, and alumni may come together for discussions and social intercourse.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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General correspondence should be addressed to the Secretary, Professor A. L. Merrill

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Fellow in Architecture, Am	erican Academy in Rome
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Architecte Diplomé par le	Gouvernement Français
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DEPARTMENT OF ARCHITECTURE

General Statement

The Course in Architecture. The curriculum is designed to supply the fundamental training required for the practice of architecture. The reputation of the course has been sustained by the strictest adherence to that high standard of efficiency for which the Institute of Technology is noted. It recognizes that architecture is a creative art, and requires more knowledge of liberal studies and less of pure science than the profession of the engineer. This condition has been met through specially prepared courses. Full appreciation of the value of the important study of design is shown by the fact that the instructors who have it in charge are not only highly trained men, but that they have the experience which comes from an active practice of their profession.

Advantages of Situation. The school is in the heart of the city,— a great museum of architecture,— in which one is in close touch with the work of the best architects of the day. Building-operations can be watched from beginning to end. The nearness to architects in their offices is such that they show their interest in the school through constant visits. The Museum of Fine Arts is within easy reach, where every opportunity is offered the student to make use of its splendid equipment. The Public Library offers the students the use of its choice architectural library without any annoying restrictions. The Art Club near at hand is an element of instruction, as well as other exhibitions of pictures and fine arts so generally opened to the public.

Equipment. The equipment of the Department consists of a gallery of drawings including original envois of the Prix de Rome, unequaled in this country; as fine a working library as can be desired, containing four thousand five hundred books, sixteen thousand photographs, fifteen thousand lantern-slides, and prints and casts of great value.

Four-Year Course. The regular course leading to the degree of Bachelor of Science is of four years' duration. It includes two Options,— one designed for those to whom the esthetic side of Architecture makes the strongest appeal; the other designed for those who prefer the Engineering branches of their profession. The two Options run very nearly parallel for the first two years, and each embraces the fundamentals essential to the education of all architects. At the beginning of the third year the line of demarcation becomes more distinct, and in the fourth year it is very sharply defined; but general subjects common to both Options continue through the four years, and emphasize the close relation between the two and the interdependence of one upon the other in a complete architectural equipment.

General Architecture, Option I, lays its greatest stress upon Design and Art, with only enough training in Engineering to enable the student to understand the structural necessities of his design and to discuss intelligently the general engineering phases of his practice. Architectural Engineering, Option II, lays its greatest stress upon Structural Design and Engineering, but includes enough training in General Architecture and Art to put the student into full sympathy with the ideals of his profession.

Graduate Courses. Opportunities are offered in each Option for a further year of advanced professional work leading to the degree of Master of Science to graduates of the Institute, and to others who have had a training substantially equivalent to that given in the undergraduate course. The value of this graduate work cannot be overestimated. The good results obtained through a year's uninterrupted study of subjects essential to the highest professional success, and for which the previous four years' training has prepared the student, are in extraordinary evidence.

Summer Courses. These courses, of eight weeks' duration, in second and third year Design and in Shades and Shadows, are open to students from other colleges, and to special students who have the required preparation and who desire to anticipate a portion of the professional work of the regular school year.

College Graduates. Students who have completed a college course before entering the Department will have covered much of the general work required and can usually obtain the degree of the Institute in two years and a summer course. College students who propose to enter the Department are advised to communicate with the Secretary of the Institute in order that in the arrangement of their college courses they may anticipate as far as possible the Institute requirements.

Special Students. Applicants must be college graduates or twenty-one years of age with not less than two years of experience in an architect's office or some equivalent and satisfactory preparation. They must give evidence of this preparation through personal conference, letters from former employers, and by the presen-tation of drawings covering their experience. They must pass the entrance examinations in English and Ancient History, or give other satisfactory evidence of their preparation in these subjects. They must take in their first year of residence the courses in Descriptive Geometry and Mechanical Drawing, unless these subjects have been passed at the September examinations for advanced standing or excuse from one or both has been obtained on the basis of equivalent work accomplished elsewhere. Entrance to these courses must be approved by the Department of Drawing, and satisfactory records must be obtained in order to continue architectural subjects. All special students must also register for second-year Freehand Drawing. The first week of this course will be considered a test period to determine the standing of the student. In general, special students in Option I will be expected to take, in addition to the subjects already mentioned, courses in Design, Shades and Shadows, Perspective, Applied Perspective, Architectural History, History of European Civilization and Art, and Philosophy of Architecture — the arrangement of subjects for each student to be approved by the Department. To become eligible for the Traveling Fellowship in Architecture a special student must obtain satisfactory records for full undergraduate requirements in all the subjects mentioned above, and a satisfactory record in graduate Design. Special students who desire to take work in Architectural Engineering must pass or offer equivalents for entrance examinations in Mathematics and Physics, and courses in Mathematics, Physics, and Applied Mechanics required in the Option.

The Catalogue of the Institute, giving more detailed information, will be sent on application to the Secretary of the Institute, Professor A. L. Merrill.

Scholarships and Prizes

Scholarships and Fellowships. Certain funds are available for the assistance of well-qualified students for undergraduate and for postgraduate work.

Prizes. The Department offers the following annual prizes, which, with the exception of the Rotch Prizes, are awarded for competitions in Design:

Traveling Fellowship. One thousand dollars to be devoted to travel and study abroad for one year under the direction of the Department Faculty. The competition for this Fellowship is open to regular and special students who have passed two consecutive years in the school within the last three years, one of which must have been in the postgraduate class.

Student Medal of the American Institute of Architects. This medal is awarded on the recommendation of the Department to the member of the graduating class whose record for the course is the best.

Rotch Prizes. The gift of Mr. Arthur Rotch. Two prizes of two hundred dollars awarded at the end of the senior year to the regular and the special student having the best general records. The special student must have spent at least two years in residence to be eligible as a candidate.

The Boston Society of Architects' Prizes. The gift of the Society. Two prizes of fifty dollars awarded to a regular and a special student in the senior class.

The Chamberlin Prize. The gift of Mr. W. E. Chamberlin of the Class of 1877. Twenty-five dollars awarded to a student in the postgraduate class.

The F. W. Chandler Prizes. The gift of the alumni of the Department and of Professor Chandler's friends. Five prizes of ten dollars each awarded for sketch problems in the third, fourth, and postgraduate years.

The "Class of 1904" Prizes. The gift of the Class of 1904. Two prizes of ten dollars awarded to a regular and a special student in the junior class.

Architectural Society Scholarship Fund. This fund is the gift of the Architectural Society of the Institute. The income to be used for loans to such students of the Department as may be approved by the Trustees.

Graduates of the Department have special advantages:

The American Institute of Architects accepts them as candidates for membership without the examinations usually required.

The American Academy in Rome admits them to the preliminary competition for its Fellowship in Architecture.

The Rotch Traveling Scholarship Committee excuses them from the examinations preliminary to the competitions.

COURSES OF INSTRUCTION

OPTION I. ARCHITECTURE

FIRST YEAR

First Term Chemistry Descriptive Geometry English Freehand Drawing French Mathematics Mechanical Drawing Military Science Physical Training Trigonometry

Second Term Descriptive Geometry English Freehand Drawing French History Mathematics Mechanical Drawing Military Science Perspective Physical Training

SECOND YEAR

First Term Applied Perspective Design and Elements of Architecture **English Literature** European Civilization and Art Freehand Drawing History Mathematics Physics Shades and Shadows

Second Term Applied Perspective Architectural History Design and Elements of Architecture **English Literature** European Civilization and Art Freehand Drawing History of Ornament Mathematics Physics Water Color

First Term **Applied Mechanics** Applied Perspective Architectural History Design European Civilization and Art Freehand Drawing General Study Heating and Ventilation Political Economy Water Color

First Term Acoustics Architectural History Color Constructive Design Design European Civilization and Art Life Class Philosophy of Architecture **Professional Relations**

Second Term **Applied Mechanics** Applied Perspective Architectural History **Business** Law Design European Civilization and Art Freehand Drawing General Study Specifications and Working Drawings

FOURTH YEAR

THIRD YEAR

Second Term Constructive Design Design (Thesis) European Civilization and Art Life Class Philosophy of Architecture **Professional Relations** Sanitary Science and Public Health

ARCHITECTURAL ENGINEERING OPTION II.

FIRST YEAR

- First Term
- Chemistry **Descriptive Geometry** English Freehand Drawing French Mathematics Mechanical Drawing Military Science Physical Training Trigonometry

Second Term **Descriptive Geometry** English Freehand Drawing French History Mathematics Mechanical Drawing Military Science Perspective Physical Training

SECOND YEAR

First Term

Design and Elements of Architecture **English Literature** European Civilization and Art Freehand Drawing History Mathematics Physics Shades and Shadows Surveying

Second Term Architectural History Design and Elements of Architecture **English Literature** European Civilization and Art Freehand Drawing History of Ornament Mathematics Physics Sanitary Science and Public Health Specifications and Working Drawings

European Civilization and Art General Study Geology of Materials Heating and Ventilation Political Economy Structural Drawing First Term **Applied Mechanics** Architectural History Concrete Laboratory Electric Wiring and Lighting

of Buildings European Civilization and

Philosophy of Architecture

Testing Materials Labora-

Professional Relations

Theory of Structures

Structural Design

First Term

Applied Mechanics

Design

Art

tory

Foundations

Architectural History

THIRD YEAR

Second Term **Applied Mechanics** Architectural History Business Law European Civilization and Art General Study Materials Structural Design Theory of Structures

FOURTH YEAR

Second Term European Civilization and Art Hydraulics Philosophy of Architecture **Professional Relations** Steam and Mechanical Appliances for Buildings Structural Design (Thesis) Theory of Structures

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PRIZES AWARDED IN 1915-16

TRAVELING FELLOWSHIP IN ARCHITECTURE R. W. Baldrey

THE AMERICAN INSTITUTE OF ARCHITECTS' MEDAL A. T. WYMAN

BOSTON SOCIETY OF ARCHITECTS' PRIZES

O. R. FREEMAN, Regular Student V. W. JORGENSEN, Special Student

CHAMBERLAIN PRIZE

H. C. STEARNS

F. W. CHANDLER PRIZES

Fifth Year: J. F. STAUB Fourth Year: Miss E. G. PATTEE H. STERNER Third Year: J. T. WHITMORE

THE "CLASS OF 1904" PRIZES

F. S. CARSON, Regular Student J. C. FLAHERTY, Special Student

ROTCH PRIZES

A. T. WYMAN, Regular Student C. ROBINSON, Special Student

THE SOCIETY OF TECHNOLOGY ARCHITECTS

An Association of Former Students of the Department of Architecture

Its object, as set forth in the by-laws, is "to further the well-being of the Department of Architecture by fostering the interest of the members in the Department and in each other." It is hoped that this society may become the instrument whereby the former students of the Department may work for its benefit, and help to keep the methods of architectural training and instruction in line with the best professional practice and ideals.

OFFICERS FOR 1916

President, MR. WILLIAM H. BRAINERD Vice-President, MR. ARTHUR G. EVERETT Secretary-Treasurer, MR. ALEXANDER S. JENNEY

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ADVANCED DESIGN. MEDAL

H. C. STEARNS .

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A MEMORIAL CHURCH

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A HOTEL FOR A CALIFORNIA SEASIDE RESORT

L. G. MACK





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A DEPARTMENT STORE

ADVANCED DESIGN. MEDAL

H. C. STEARNS



THE VELARIUM FOR AN OPEN-AIR THEATER

J. F. STAUB





AN AUTOMOBILE FACTORY

H. C. STEARNS

COMPETITION FOR THE F. W. CHANDLER PRIZE ADVANCED DESIGN. PRIZE

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A CHURCH

B. S. THESIS

A. T. WYMAN





A CHURCH

A. T. WYMAN



J. F. HOGAN

B. S. THESIS





A POST-OFFICE FOR A SMALL CITY

J. F. HOGAN

25



A TOWN HALL

B. S. THESIS

R. M. STOWELL





AN ARENA

THIRD YEAR OF DESIGN. MEDAL

J. F. HOGAN





A TUDOR COUNTRY HOUSE

B. S. THESIS

C. F. CELLARIUS





A TUDOR COUNTRY HOUSE

C. F. CELLARIUS

29



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D. K. E. FISHER, JR.



ENTRANCE TO A COURT OF HONOR

THIRD YEAR OF DESIGN. MEDALS

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AN ORNAMENTAL CLOCK COMPETITION FOR THE BOSTON SOCIETY OF ARCHITECTS' PRIZES THIRD YEAR OF DESIGN THE TECHNOLOGY ARCHITECTURAL RECORD





A POST-OFFICE

SECOND YEAR OF DESIGN. MEDAL

D. M. BROWN

32



A COLLEGE CLUB HOUSE

SECOND YEAR OF DESIGN. MEDAL

W. P. BEALER



COMPETITION FOR THE "CLASS OF 1904" PRIZES SECOND YEAR OF DESIGN. PRIZE, REGULAR STUDENT



STUDY OF THE IONIC ORDER: ENTRANCE TO A GALLERY OF SCULPTURE

E. W. NEFF

10 100 THIL CONVERSE. STUDY OF THE DORIC ORDER: A FRONTISPIECE

K. ROPER

FIRST YEAR OF DESIGN. MEDALS



35

+





STUDY OF THE CORINTHIAN ORDER: ENTRANCE PORTICO OF A NATIONAL PANTHEON FIRST YEAR OF DESIGN. MEDAL

G. L. HANCOCK



STUDY OF VAULTED SURFACES: A COURTYARD OF A SCHOOL OF ARCHITECTURE

E. W. DRURY



STUDY OF THE DORIC ORDER: A FRONTISPIECE FIRST YEAR OF DESIGN. MEDALS

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