



Commencement

1917



Throop College of Technology

Pasadena, California

Commencement

THROOP COLLEGE OF TECHNOLOGY

PASADENA, CALIFORNIA

May 6, 1917, 3 o'clock

THE REV. ROBERT FREEMAN, D. D., *Chaplain*

Hymn: "America"

Prayer

The Chaplain's Address

Hymn: "Praise Ye the Father"

THE THROOP GLEE CLUB

Presentation of the Class Pins

CARLYLE HOWE RIDENOUR

President of the Associated Students

Award of the Conger Prize

DR. HENRY S. CARHART

Award of the Travel Prizes

DR. C. T. WINCHESTER

Throop College of Technology

Pasadena 1917 California

. . . . Exhibit of Scientific Work and Apparatus

Friday, March 16, 1 to 9 P. M. :: Saturday, March 17, 9 A. M. to 4 P. M.

PROGRAM

The Exhibit can be seen most advantageously by following
the order given below

Entrance—Main floor.

A

Office—At right of entrance.

Copies of Catalogue and Bulletins may be obtained.

B

Room 110—Assembly Hall.

Students meet here once a week for chapel and to listen
to addresses by eminent men.

Bronze replica of statue of Nathan Hale by Bela Lyon
Pratt.

C

Room 104—President's Office.

Plans of the Throop that is to be are on exhibition.

D

Alcove Between Stairways—Copy in marble of statue of Apollo
Belvedere. The original is in the Vatican Museum at
Rome.

Back of alcove, in Dean's waiting room, some city plan-
ning and transportation exhibits. Telephone is located
here.

E

Room 113—Lecture Room, Economics and History.

Exhibits of typical reports and analyses prepared in the
course of Engineering and Economics.

F

Room 114—Freshman and Sophomore Drafting Room.

Exhibit of drawings.

G

Room 120—Exhibit of Surveying Instruments.

H

Room 122—Civil Engineering Drafting Room.

Models of structures and exhibit of students' designs.

I

Room 115—Library.

3,000 volumes of reference works, catalogued according to the Dewey decimal system.

Current periodicals, technical journals and bulletins.

(Proceed to lower floor and turn south to Room 9.)

J

Room 9 A—(through Room 9)—Photometric Laboratory.

Incandescent lamp testing.

Comparison of tungsten and metalized-filament lamps.

K

Room 9 B (through Room 9)—Calibration and Magnetic Laboratory.

Deflection potentiometer with shunts (Bureau of Standards Design), and other instruments for testing meters and magnetic circuits.

L

Room 3—Electrical Lecture Room.

Exhibition of high frequency phenomena. (Apparatus built and exhibited by Norman Prosser, class of 1918.)

M

Rooms 1, 4 and 10—Electrical Laboratory and meter room.

Building and laboratory switch boards, testing stations, meters, etc. Exhibits of various types of electric systems in operation. Early electrical apparatus. (Mr. Baker, class of 1917.)

N

Room 15—A fine collection of ores and rock minerals, many of them rare, from every corner of the earth.

O

Room 22—Lubricant and Fuel Testing Laboratory.

Equipment, calorimeters, gauges and other devices.

Exhibit of active volcanoes and intermittent spring, by Professor Clapp.

P

Rooms 21 and 23—Strength of Materials Laboratory.

Equipment, compression, tension, torsion, friction, hardness, and fatigue testing machines.

Apparatus for determining the physical properties of cement and concrete mixtures.

Exhibit: Manufacture of lead pipe. (Stert and Beattie, class of 1917.)

(Proceed out of north door, thence west to the new Chemistry Building and enter by main entrance.)

CHEMISTRY BUILDING

Q

- Room 103**—Organic Chemistry Research Laboratory.
Special apparatus used in organic analysis.

R

- Room 101**—Laboratory of General Chemistry.

The equipment of this laboratory is typical of that of all the laboratories. The floor is surfaced with a coating of Resolite Mastic, which forms an acid-resisting and resilient floor covering.

In addition to the ordinary ventilating system which changes the air in the building every seven or eight minutes, each laboratory has special ventilation through hoods. These are exhausted by means of twelve fans installed in the attic and controlled from the laboratories below. The laboratory of General Chemistry and the Analytical Laboratory (room 201) have individual desk hoods in addition to wall hoods.

Water, gas and suction are available on each desk in the building, and in each laboratory there are outlets for compressed air, distilled water and alternating and storage battery electric currents.

S

- Room 102**—Organic Chemistry Laboratory.

Typical processes employed in preparing and purifying carbon compounds.

Specimens of dyes and of substances used as flavors.
(Nutt and Broadwell, class of 1918.)

T

- Other Rooms on this floor**—101 B, preparation room; 101 A and 101 B, offices and private laboratories; 102 B, balance room; 104 lecture room; 105, supply room.

U

Second Floor Rooms:

201—Analytical laboratory; extraction of kelp products.
(Capra and Barbour, class of 1919.)

201 B—Balance room; 201 A and 202 A—Offices and private laboratories.

202—Physical Chemical Laboratory. Experiments showing the conductivity of water and the mobility of the ions. (Mr. Broadwell, class of 1918.)

203-204-211-213-215—Research Laboratories.

206—Switchboard room.

208—Department Library.

209—Instrument Shop.

(Proceed to basement.)

V

- Room 2**—Smaller Chemical Engineering Laboratory.
Experiments illustrating corrosion of metals.

W

- Room 4**—Technical Analysis Laboratory.

Instruments and apparatus used in industrial analytical chemistry.

Leave Chemistry Building by basement door and proceed to the Hydraulics and Steam Power Laboratory.

Y

Hydraulics, Steam and Gas Laboratory.

In this temporary building will be found pumps, tanks, weirs, meters, and other equipment for the study of power for prime movers, and a small shop for use in keeping up this equipment.

(Note: The wood shop, pattern shop, forge shop and machine shop for purposes of instruction are located at the Pasadena Polytechnic High School, where first- and second-year students do shop work on Saturdays.)

Visitors should now return to the main building and proceed to the second floor.

Z

Room 217—Typical Lecture Room, Mathematics.
Apparatus for making calculations.

AA

Room 224—Senior and Junior Drafting Room, departments of Electrical and Mechanical Engineering.

BB

Rooms 205-210—Department of Physics.

Room 205—Physics lecture room.

Room 205 A—Instrument shop.

Room 208—General physics laboratory.

Room 208 A—Dark room.

Room 210—Electrical measurements laboratory.

Exhibition of Brownian movements, a demonstration of energy of solution, the magic spring and other spectacular and interesting physical phenomena.

Illustrated lecture, "Theory of Ionization," 4:00 and 8:30 p.m. Friday, 11:00 a.m. and 3:30 p.m. Saturday.

CC

Room 400—The Webb Library. (Winding stairway, up two flights.)

In this library are more than 2,000 volumes of reference works, catalogued according to the Dewey decimal system, devoted entirely to chemistry, with the exception of some government publications and other pamphlets. (The general library will be found on the main floor, in Room 115.)

A fine panoramic view of the mountains and the San Gabriel Valley may be obtained from the gallery above the book-stacks.

DD

Dormitory—At the east end of Campus, reached by board walk through orange trees, where a touch of Throop students' social life may be had. Everyone welcome.

Exit—Main floor, Pasadena Hall.

The Calder Archways (over front portico).

COME AGAIN

“The Throop Song”

LED BY THE GLEE CLUB

(Words on Page Four)

The President's Address to the Class

Conferring of Degrees

Hymn: “Now the Day is Over”

THE THROOP GLEE CLUB

Benediction

Candidates for Degrees

Bachelor of Science

ALEXANDER ASKENASY	FRED LLOYD POOLE
CLARK EDWARD BAKER	ROY THOMAS RICHARDS
JOSEPH ANDREW BEATTIE	SIDNEY RICKEY SEARL
ARCHIE REED KEMP	CLAUDE WELLINGTON SOPP
HARRY PENDLETON MEYER	ARTHUR STERT
EZRA DAVIS MOSHER	JESSE PAUL YOUTZ

Master of Science

PAUL DEVRIES MANNING

The Board of Trustees

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The Throop Song

In the sunshine floats a banner,
In the early morning light:
We greet the glowing colors,
The Orange and the White;
To this emblem we'll be faithful
And to its precepts true,
Its name we'll hail with pleasure,
When with college days we're through.

Ah! T. C. T. we love thee,
Our hearts with joy rebound
When we sing of thy great glory;
O hail the pleasing sound.
Its Founder's name we cherish,
A man so strong and true;
Our pledge of love to T. C. T.
We daily will renew.

So let us join together
And sing of dear old Throop,
Let us shout for Alma Mater,
With vim and with a whoop.
Forever and forever
May her glory shine so bright
For all who love our College dear,
And the Orange and the White.