

# Commencement

CALIFORNIA INSTITUTE OF TECHNOLOGY

PASADENA

June 12, 1931, 4:00 o'clock



PROCESSIONAL MARCH—

“Coronation March” - - - - - *Meyerbeer*

The Institute Orchestra

### Invocation

HYMN—“America” - - - - - *Smith*

### Chaplain's Address

THEODORE GERALD SOARES, PH.D., D.D.

SONG—“Feasting I Watch” - - - - - *Edward Elgar*

The Institute Glee Club

### Address

“THE QUEST FOR LIGHT”

CHARLES AUSTIN BEARD, PH.D., LL.D.

### Presentation of Candidates for Degrees

DEAN FREDERIC W. HINRICHS, JR., M.A.  
Dean of Upper Classmen

SAMUEL STUART MACKEOWN, PH.D.  
Chairman of Committee on Course in Science

WILLIAM HOWARD CLAPP, E.M.  
Chairman of Committee on Course in Engineering

RICHARD CHASE TOLMAN, PH.D.  
Chairman of Committee on Graduate Courses

### Conferring of Degrees

on behalf of the Trustees and Faculty

ROBERT A. MILLIKAN, PH.D., LL.D., SC.D.  
Chairman of the Executive Council

### Announcements

SONG—“Hail C. I. T.” - - - - - *Barnes*

### Benediction

POSTLUDE—March, “National Emblem” - - - - - *Bagley*

(The audience will stand during the entry of the Academic Procession, the Invocation, and the singing of “America” and “Hail C. I. T.”)

# Candidates for Degrees

## Doctor of Philosophy

RUSSELL LEE BIDDLE, B.S., University of Pittsburgh; M.A., Columbia University.  
JOHN STUART CAMPBELL, B.S., California Institute of Technology; M. A., Rice Institute.  
RUDOLF CLEMENS HERGENROTHER, B.S., Cornell University; M.S., Pennsylvania State College.  
VAINO ALEXANDER HOOVER, B.S. and M.S., California Institute of Technology.  
ARCHER HOYT, B.A., Whitman College.  
LORENZ DITMAR HUFF, A.B. and M.S., University of Oklahoma.  
CECIL EDWARD PRUITT JEFFREYS, B.A. and M.A., University of Texas.  
LAWRENCE SANFORD KENNISON, A.B., Dartmouth College; A.M., Brown University.  
HARRY ALLISTER KIRKPATRICK, B.S., Occidental College.  
CHARLES COYLE LASH, B.S. and M.S., California Institute of Technology.  
CARL CLARENCE LINDEGREN, B.S. and M.S., University of Wisconsin.  
JOHN HAVILAND MAXSON, B.S. and M.S., California Institute of Technology.  
FRANCIS WILLIAM MAXSTADT, M.E., Cornell University; M.S., California Institute of Technology.  
HENRY VICTOR NEHER, B.A., Pomona College.  
FRANK ANDREW NICKELL, B.S. and M.S., California Institute of Technology.  
RICHARD DURANT POMEROY, B.S. and M.S., California Institute of Technology.  
SOL FREDERICK RAVITZ, B.A., and M.A., University of Utah.  
WILLIAM LAYTON STANTON, JR., B.S., California Institute of Technology.  
CHARLES ALBERT SWARTZ, B.S., California Institute of Technology.  
JOHANNES ARCHIBALD VAN DEN AKKER, B.S., California Institute of Technology.  
RALPH RICHTER WENNER, B.S., Cooper Union Institute of Technology; M.S., Northwestern University.  
HOWARD MERLIN WINEGARDEN, B.S. and M.S., California Institute of Technology.  
SHO-CHOW WOO, B.S., National Central University, Nanking, China.

## Master of Science

### PHYSICS

TSENG-LOH HO, B.S., National Central University, Nanking, China.

### CHEMICAL ENGINEERING

CLYDE L. BLOHM, B.S., California Institute of Technology.  
EARL S. HILL, B.S., Oregon State College.  
RAYMOND WINFIELD HOEPEL, B.S., California Institute of Technology.  
BRUCE HORN BROOK SAGE, B.S., New Mexico College of Agriculture and Mechanical Arts.  
HOWARD EMERSON SHIRLEY, B.S., Oklahoma Agricultural and Mechanical College.

### GEOLOGY AND PALEONTOLOGY

FRANCIS DASHWOOD BODE, B.S., California Institute of Technology.  
JOHN WARLAUMONT DALY, B.S., California Institute of Technology.  
KENNETH ELMO LOHMAN, B.S., California Institute of Technology.  
GEORGE FREDERIC TAYLOR, B.S., California Institute of Technology.

### ELECTRICAL ENGINEERING

ELLIS OSMON ERICKSON, B.S., University of North Dakota.  
CLINTON EUGENE GATES, B.S., California Institute of Technology.  
ARTHUR BEHREND NOMANN, B.S., California Institute of Technology.  
GEORGE WILBER READ, B.S., California Institute of Technology.  
GEORGE ARTHUR ROSS, B.S., California Institute of Technology.  
LLOYD WALLACE RUSSELL, B.S., California Institute of Technology.  
DAVID SHEFFET, B.S., California Institute of Technology.  
AUSTIN WEBBER STRONG, B.S., California Institute of Technology.  
KEITH MAPLE WILSON, B.S., California Institute of Technology.

### MECHANICAL ENGINEERING

ERNEST ARTHUR BROOKS, B.A., Pomona College.  
LOUIE WARREN MOSLEY, B.A., University of Texas.  
FRANK NEFF MOYERS, B.S., California Institute of Technology.  
HUBERT HENRY SMITH, A.B., University of Redlands.  
GEORG FRIEDRICH WISLICENUS, M.E., State Institute of Technology, Wurzberg, Germany

### CIVIL ENGINEERING

DEANE EDWIN CARBERRY, B.S., California Institute of Technology.  
ERNEST LEVINE, B.S., California Institute of Technology.  
THOMAS JEFFERSON NOLAND, JR., B.S., California Institute of Technology.  
HARLAN BAIRD ROBINSON, B.S., Princeton University.

### AERONAUTICAL ENGINEERING

GEORGE SCHILD LUFKIN, B.S., and M.S. in Mechanical Engineering, California Institute of Technology.  
MASAHIRO HOWARD NAGASHI, B.S., and M.S. in Mechanical Engineering, California Institute of Technology.  
ADAM TEODOR ZAHORSKI, B.S.E., University of Michigan.

# Bachelor of Science

## Science

LUCAS AVERY ALDEN  
WILLIAM ARCHIBALD ARNOLD  
LAWRENCE WILLIAM BOLLES  
CHARLES EMERY BUFFUM  
PAUL HERMAN CATE  
WILLIAM MAURICE COGEN  
ROBERT PREWITT COLEMAN  
ALBERT THOMAS CRAWFORD  
EDWARD BISHOP CROSSMAN  
JOHN STRUSS DETWEILER  
STEPHEN CHARLES DORMAN  
W. FERDINAND EBERZ  
THEODORE ROBERT FOLSOM  
LOWELL FORREST GREEN  
CARTER HOLT GREGORY  
NORMAN ROBERT GUNDERSON  
WINTON CHRISTOPH HOCH  
EMMETTE RUDOLPH HOLMAN  
BENJAMIN HOLZMAN  
\*ROBERT BYRON JACOBS

DUROC ALBERT JECKER  
\*LAWRENCE EDWARD KINSLER  
CHARLES EDMUND KIRCHER, JR.  
EDWIN KUYKENDALL  
ALEX HERBERT LEVINE  
GEORGE EDWARD LIEDHOLM  
HARRY MATISON  
JOHN WILBUR MEHL  
ROSS ELLIOTT MORRIS  
CARL F. J. OVERHAGE  
EDWARD STEPHEN PEER  
\*RAYMOND ALFRED PETERSON  
LELAND DEWITT PRATT  
ROGER THEOPHILUS ROBINSON  
JOHN TOWNSEND SINNETTE, JR.  
WILLARD PALMER STEWARD  
EVERETT G. TROSTEL  
GLENN MILLER WEBB  
THOMAS ROBERT WHITE  
CHARLES ALFRED WILMOT

## Engineering

JACK HUBER AMANN  
MAYNARD MARION ANDERSON  
WILLIAM FREDERICK ARNDT  
REA ANDREW AXLINE  
JOHN CARTER BIGGERS  
PERRY MATTISON BOOTHE  
JOHN LEROY BOVEE, JR.  
ARTHUR CLINTON BROOKS  
GEORGE LELAND BUSSEY  
\*GLENN JOHN CHAMBERLAIN  
NELSON MYERS CORDES  
WALTER LINNÆOUS DICKEY  
SAMUEL CLARE EASTMAN  
LAWRENCE LAVERNE FERGUSON  
FRANK HUBERT FORD  
CALVIN BARTON FRYE  
JOHN EMILE GIRARD  
ABRAHAM JACK GRAFMAN  
EDWIN FRANCIS GREEN  
ROBERT HARDY GRIFFIN  
WILLIAM DILLON HACKER, JR.  
MARVIN WILLIAM HALL  
FRANCIS WILLIAM HUTCHINSON  
HERBERT SMITH INGHAM  
BYRON BETHUNE JOHNSON  
THEODORE WALDEMAR JURLING  
JAMES HENRY KEELEY  
EDWARD STORY KINNEY, JR.  
RAYMOND FRARY LABORY

GEORGE LANGSNER  
\*LAVERNE DAVIDSON LEEPER  
ROBERT MARSHALL LEHMAN  
CHARLES K. LEWIS  
GEORGE EDWARD LEWIS  
EDMUND JOSEPH LONGYEAR, JR.  
JACK FELBERT MCGARRY  
JOHN ROBERTSON MCMILLAN  
WILLIAM STERLING MERRITHEW  
DEWOLFE MURDOCK  
OSCAR McMULLIN NEWBY  
ROBERT MARTIN OAKS  
ENNIS GUNNING OLMSTED  
GEORGE SKIDMORE RICE  
ROBERT GRAVES SMITH  
HOWARD GARDNER SMITS  
MYER SAMUEL STEIN  
CHARLES KLOPP STIPP  
THOMAS VERNON TARBET  
PAUL MITCHELL TERRY  
ISADORE THOMPSON  
ALVIN CARL TUTSCHULTE  
ALFRED SUTER VOAK  
CARL ARTHUR WEISE  
WILLIAM TEXTOR WEST  
RUBIN WIDESS  
JEFFERY ANDREW WINELAND  
CARL KAORN YOSHIOKA  
DAVID ZABARO

\*With Honor

## America

My country! 'tis of thee,  
Sweet land of liberty,  
Of thee I sing;  
Land where my fathers died,  
Land of the Pilgrim's pride,  
From every mountain side  
Let freedom ring.

Our fathers' God to Thee,  
Author of Liberty,  
To Thee we sing:  
Long may our land be bright  
With Freedom's holy light;  
Protect us by Thy might,  
Great God our King.

—S. F. Smith

## Hail C. I. T.

In Southern California with grace and splendor bound—  
Where the lofty mountain peaks look out to lands beyond,  
Proudly stands our Alma Mater, glorious to see.  
We raise our voices hailing, hailing, hailing thee:  
Echoes ringing while we're singing over land and sea;  
The halls of fame resound thy name, noble C. I. T.

—Manton M. Barnes, '21