

# Commencement

CALIFORNIA INSTITUTE OF TECHNOLOGY  
PASADENA

June 10, 1932, 4:00 o'clock

برنامہ

PROCESSIONAL MARCH—

"Marche Royal" - - - - - *J. DeSmetsky*

The Institute Band

Invocation

HYMN—"America" - - - - - *Smith*

Chaplain's Address

THE REVEREND WILLSIE MARTIN, D.D.

SONG—"Sons of Men" - - - - - *Charles Wakefield Cadman*

The Institute Glee Club

Address

"ENGINEERING AND MUNICIPAL GOVERNMENT"

HARRISON PRESCOTT EDDY, D.ENG.

Presentation of Candidates for Degrees

DEAN FREDERIC W. HINRICHS, JR., M.A.

Dean of Upper Classmen

WILLIAM RALPH SMYTHE, 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—"Processional" - - - - - *Mitchell*

(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

MAURICE BIOT, Ph.B., B.S., M.S. and D.Sc., University of Louvain.  
JOHN FRANCIS BLACKBURN, B.S., University of Chicago.  
WILLIAM MCCHESENEY BLEAKNEY, B.S., Whitman College.  
JOHN HENRY AUGUSTUS BRAHTZ, B.S., and M.S., Royal Technical College, Copenhagen.  
PHILIP DAVIS BRASS, B.S., Yale University  
THOMAS CLEMENTS, E.M., University of Texas; M.S., California Institute of Technology.  
ROBLEY DUNGLISON EVANS, B.S. and M.S., California Institute of Technology.  
ALFRED BOSWORTH FOCKE, B.S., Case School of Applied Science.  
RICHARD GILMAN FOLSOM, B.S., and M.S., California Institute of Technology.  
ANDREW VASILY HAEFF, E. and E.M., Polytechnic Institute, Harbin, China; M.S., California Institute of Technology.  
JAMES LYNN HOARD, B.S., and M.S., University of Washington.  
JOHN ANDREW LEERMAKERS, B.S., and M.S., Iowa State College.  
ROBERT SAMUEL MARTIN, A.B., University of Pittsburgh.  
J. CARLISLE MOUZON, A.B., Southern Methodist University.  
PHILIP GRIFFIS MURDOCH, B.S., California Institute of Technology.  
W. BAILEY OSWALD, B.A., University of California at Los Angeles.  
JOHN WILFRED PATTERSON, M.E., Colorado School of Mines; M.A., University of Wyoming.  
LYNN HAMILTON RUMBAUGH, A.B., Miami University.  
JACK HENRY SHERMAN, B.S., University of California.  
GUY WADDINGTON, B.A., University of British Columbia.  
KARL MORGAN WOLFE, B.S., West Virginia University; M.S., California Institute of Technology.

## Master of Science

### PHYSICS

CHARLES EMERY BUFFUM, B.S., California Institute of Technology.  
THEODORE ROBERT FOLSOM, B.S., California Institute of Technology.  
WINSTON MALCOLM GOTTSCHALK, B.S., Princeton University.  
DONALD EDWARD MARSHALL, E.E., University of Iowa.  
RUSSELL WATSON RAITT, B.S., California Institute of Technology.  
SAMUEL STEWART WEST, B.S., California Institute of Technology.

### CHEMISTRY

EMORY LEON ELLIS, B.S., California Institute of Technology.  
HERBERT FRANZ LAUNER, B.A., University of California at Los Angeles.

### GEOLOGY AND PALEONTOLOGY

LAWRENCE WILLIAM BOLLES, B.S., California Institute of Technology.  
ALEX CLARK, B.S., California Institute of Technology.  
WILLARD ALEXANDER FINDLAY, B.S., California Institute of Technology.  
VINCENT COOPER KELLEY, B.A., University of California at Los Angeles.  
FRED B. PHLEGER, JR., A.B., University of Southern California.  
ROLAND CASE ROSS, B.A., University of California at Los Angeles.  
DAVID WALTER SCHARF, B.S., California Institute of Technology.  
JOSHUA LAWRENCE SOSKE, G.E., Colorado School of Mines.  
ROBERT WALLACE WEBB, B.A., University of California at Los Angeles.  
ROBERT WARREN WILSON, B.S., California Institute of Technology.

### CHEMICAL ENGINEERING

NORMAN ROBERT GUNDERSON, B.S., California Institute of Technology.  
ROSS ELLIOTT MORRIS, B.S., California Institute of Technology.  
ROGER THEOPHILUS ROBINSON, B.S., California Institute of Technology.  
HENRY WELGE, B.S., University of Illinois.

### ELECTRICAL ENGINEERING

JACK HUBER AMANN, B.S., California Institute of Technology.  
DEAN EILDERMANN BATCHELDER, B.S., Massachusetts Institute of Technology.  
CHARLES JOHN BREITWIESER, B.S., University of North Dakota.  
ALBERT BUTLER, B.S., California Institute of Technology.  
GLENN JOHN CHAMBERLAIN, B.S., California Institute of Technology.  
JAMES DILLON COBINE, B.S., University of Wisconsin.  
RICHARD MASON DODGE, B.S., California Institute of Technology.  
FRED FOULON, B.S., University of California.  
ANTON WENZEL FRAPS, B.S., University of Arizona.  
CLYDE EDGAR GIEBLER, B.S., California Institute of Technology.  
WALTER LEE JOHNSON, M.E., Cornell University.  
GEORGE EDWARD LEWIS, B.S., California Institute of Technology.  
ERIC JOHNSTONE MILES, B.S., University of Colorado.  
CARL CHRISTIAN VON MUNTHE AV MORGENSTIERNE, E.E., Institut Electrotechnique de Grenoble, France.  
ENNIS GUNNING OLMSTED, B.S., California Institute of Technology.  
LAWRENCE DRUCE SCHRODER, B.S., University of Utah.

THOMAS VERNON TARBET, B.S., California Institute of Technology.  
LOWELL JOHN WRIGHT, B.S., University of Denver.

#### MECHANICAL ENGINEERING

BILL BAKER, B.S., California Institute of Technology.  
WILLIAM HAROLD BOWEN, B.S., University of California.  
EDWIN FRANCIS GREEN, B.S., California Institute of Technology.  
JOSEPH BOYD GROSE, B.S., University of Utah.  
THEODORE WALDEMAR JURLING, B.S., California Institute of Technology.  
JOHN FELBERT MCGARRY, B.S., California Institute of Technology.  
WILLIAM TEXTOR WEST, B.S., California Institute of Technology.

#### CIVIL ENGINEERING

PERRY MATTISON BOOTHE, B.S., California Institute of Technology.  
PHILIP CRAVITZ, B.S., California Institute of Technology.  
LAVERNE DAVIDSON LEEPER, B.S., California Institute of Technology.  
CHARLES K. LEWIS, B.S., California Institute of Technology.  
VITO AUGUST VANONI, B.S., California Institute of Technology.  
MERIT PENNIMAN WHITE, A.B., Dartmouth College; C.E., Thayer School of Civil Engineering  
NATHAN DAVIS WHITMAN, Jr., B.S., California Institute of Technology.

## Bachelor of Science Science

THOMAS FOXEN ANDERSON  
EMMER JOSEPH ARNOLD  
JOHN DWIGHT BASCOM  
WILLIAM RAYMOND BERGREN  
GEORGE HENRY BOWEN  
RUPERT ARTHUR BROWN  
WILLIAM HAMMERICH CLAUSSEN  
\*CHARLES DUBOIS CORYELL  
HOWARD WILLIAM FINNEY  
ELLIOTT BRYANT FITCH  
CLARK GOODMAN  
JACKSON GREGORY, JR.  
\*CHARLES MAXFIELD HARSH  
ELBERT NELSON HARSHMAN  
WILLIAM LYON KENT  
DELMAR H. LARSON

RANDAL MAASS  
THOMAS DIXON OULTON  
WILLIAM HAYWARD PICKERING  
WILLIAM CHARLES RAU  
JAMES THOMAS REILLY  
JAN GERARD SCHAAFSMA  
WILLIAM SHOCKLEY  
GEORGE ORVAL SHULL  
FOLKE KARL SKOOG  
BRIAN ORVILLE SPARKS  
CARL LESLIE THIELE  
WILLIAM JACOB THOMAS  
ALVIN JAMES TICKNER  
CHESTER EUGENE WILSON  
\*HERBERT S. ZUCKERMAN

## Engineering

WILLIAM AVANZINO ADAMS, JR.  
DAVID WILLIAM ANDERSON  
PAUL FRANK ARNERICH  
ALBERT WILLIAM ATWOOD, JR.  
MILLARD VERNON BARTON  
LEWIS BUSHNELL BEHLOW  
THOMAS WILLIAM BELL  
WILLIAM LADEW BERRY  
FREDERICK WILLIAM BOWDEN  
GORDON EDSON BOWLER  
JAMES RUPERT BRADBURN  
HENRY HURST BRUDERLIN  
PAUL GUSTAV BURMAN  
ROBERT VAN PELT CAREY  
\*CLIFFORD COMER CAWLEY  
JOHN VORIS CHAMBERS  
JOHN LUTHER COX  
MYRON LEE CRATER  
ROBERT EDWIN FOSS  
ROBERT BRAMEN FREEMAN  
DONALD BADGER GRAFF  
RAYMOND HOWARD GRIEST  
CHARLES FREDERICK HAMLIN  
BENARTHUR CASTLE HAYNES  
KARL EDWARD HEGARDT  
FRANK JOHN HIBBS, JR.  
\*MILLS SCHUYLER HODGE  
WALTER PALMER HUNTLEY  
JOHN ATKINS HUTCHISON  
TETSUO FRANK IWASAKI  
\*CHARLES WRIGHT JONES  
EDWARD CHESTER KEACHIE

CECIL LLOYD KILLGORE  
CARL FRANK LIND  
JAMES EVERETT LIPP  
PATRICK BARBOUR LYONS  
THOMAS EDWIN MATHEWS, JR.  
JAMES PATRICK McLAUGHLIN  
GLEN MILLER  
GLENN MYERS, JR.  
RAY TROY OELSCHLAGER  
PAUL GATES PARSONS  
WENDELL ROBERT POLK  
HENRY BLAND POWNALL  
EDWIN MOTT PRUDAMES  
WORRELL FRANZONI PRUDEN  
HAROLD ROACH  
WILLIAM CURTIS ROCKEFELLER  
BRUCE HERBERT RULE  
WILLIAM HENRY SAYLOR  
CHARLES PHILIP SCHOELLER  
MERVIN ARNO SCHUHART  
WILLIAM FRANCIS SCHULTZ  
RICHARD ALLEN SEARLE  
JOSEPH SHEFFET  
ROBERT LANSING SHERMAN  
WILLIAM REEVES SHULER  
ROBERT WOODLAND ST. CLAIR  
KENNETH HAYES SWART  
RICHARD NOTLEY THOMAS  
GRANT DELBERT VENERABLE  
GEORGE GILBERT WATSON  
ROBERT CLAY WHERRITT  
HALLEY WOLFE  
DAVID YUE-KWONG WONG

\*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 father's 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*