

Commencement

CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA

June 7, 1935, 4:30 o'clock

UUU

PROCESSIONAL MARCH—

“Coronation March” - - - - - *Kretschmer*

THE INSTITUTE BAND

Invocation

HYMN—“America” - - - - - *Smith*

Chaplain's Address

THE REVEREND JAMES WILLIAM FIFIELD, JR., D.D.

Address

“Reflections on the Nature of the Sciences”

RICHARD CHACE TOLMAN, PH.D.

Professor of Physical Chemistry and Mathematical Physics

Presentation of Candidates for Degrees

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

Dean of Upper Classmen

WILLIAM RALPH SMYTHE, PH.D.

Chairman of Committee on Course in Science

WILLIAM W. MICHAEL, B.S.

Chairman of Committee on Course in Engineering

RICHARD CHACE TOLMAN, PH.D.

Dean of the Graduate School

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—“Marche Pontificale” - - - - - *Gounod*

(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

- EDWARD DAY ALCOCK, A.B., University of California at Los Angeles; M.S., California Institute.
- LUCAS AVERY ALDEN, B.S., California Institute.
- VICTOR HUGO BENIOFF, B.A., Pomona College.
- CHARLES MELVIN BLAIR, B.A. and M.A., Rice Institute.
- LYMAN GAYLORD BONNER, B.A., University of Utah.
- SAMUEL J. BROADWELL, B.S., Throop College of Technology; M.S., University of Chicago.
- VINTON AUSTIN BROWN, B.S. and M.S., University of Arizona.
- JAMES LEON CARRICO, B.A., and B.S., North Texas State Teachers College; M.A., University of Texas.
- CHARLES DUBOIS CORYELL, B.S., California Institute.
- MAURICE DONNELLY, E.M., Colorado School of Mines; M.S., California Institute.
- FREDERICK JUNIOR EWING, B.S., California Institute.
- PAUL FRANK GENACHTE, Engineer in Electrical and Mechanical Engineering, Brussels University; M.S.E.E., Massachusetts Institute of Technology.
- CARTER HOLT GREGORY, B.S., California Institute.
- JESSE EDWARD HOBSON, B.S.E.E. and M.S.E.E., Purdue University.
- ROBERT BYRON JACOBS, B.S., California Institute.
- JOSEF JEROME JOHNSON, B.S., California Institute; M.S., Ohio Wesleyan University.
- JAMES EVERETT LIPP, B.S. and M.S., California Institute.
- WILLIAM VIRGIL MEDLIN, B.S., University of California.
- ROSCOE HARLAN MILLS, B.S., Pomona College.
- SETH HENRY NEDDERMEYER, A.B., Stanford University.
- RAYMOND ALFRED PETERSON, B.S., California Institute.
- ALBERT ROBERTS POOLE, B.A. and M.A., University of British Columbia.
- ARTHUR NICOLAS PRATER, A.B., University of California at Los Angeles; M.S., California Institute.
- RUSSELL WATSON RAITT, B.S. and M.S., California Institute.
- ALFRED ROMER, B.A., Williams College.
- JOSHUA LAWRENCE SOSKE, G.E., Colorado School of Mines; M.S., California Institute.
- BERNARD BENNETT WATSON, A.B., Temple University.
- MERIT PENNIMAN WHITE, A.B. and C.E., Dartmouth College; M.S., California Institute.
- CHESTER EUGENE WILSON, B.S. and M.S., California Institute.
- HALLEY WOLFE, B.S. and M.S., California Institute.

Master of Science in Science

PHYSICS

- ✓ LOREN TOMPKINS CLARK, A.B., University of Southern California.
- ROBERT ALEXANDER DIETRICH, B.S., California Institute.
- ✓ SEIBERT QUIMBY DUNTLEY, B.S., Massachusetts Institute of Technology.
- ROBERT ADRIAN HOWARD, B.S., California Institute.
- ✓ OSCAR BRANCHE JACKSON, B.S., Texas Christian University.
- ✓ FITTEN LAMAR McMILLIN, B.A., Mississippi College, B.S., Mississippi State College.
- ✓ ISRAEL ZAKA SLAWSKY, B.S., Rensselaer Polytechnic Institute.
- ✓ MILTON SLAWSKY, B.S., Rensselaer Polytechnic Institute.
- ✓ JAMES HAROLD WAYLAND, B.S., University of Idaho.

MATHEMATICS

- VICTOR ELCONIN, B.S., California Institute.

CHEMISTRY

- ✓ SIEGFRIED THEODORE GROSS, A.B., Colorado College.
- NELSON PERRY NIES, B.S., California Institute.
- ✓ NORWOOD LEE SIMMONS, JR., B.S., University of North Carolina.

CHEMICAL ENGINEERING

- HARRISON STOUT BACKUS, B.S., California Institute.
- ✓ EDWARD AUSTEN BERTRAM, B.S., University of Illinois.

GEOLOGY AND PALEONTOLOGY

- YGNACIO BONILLAS, III, B.S., California Institute.
- JACK FINLAY JUDSON, B.S., California Institute.
- ROBERT PHILLIP SHARP, B.S., California Institute.

Master of Science in Engineering

ELECTRICAL ENGINEERING

- EDWARD BUSHNELL DOLL, B.S., California Institute.
- ✓ GEORGE GRIMM, JR., B.S., University of Kentucky.
- HAROLD THOMAS HOLTOM, B.S., California Institute.
- RAYMOND EDWARD KIDD, B.S., California Institute.
- PAUL HOYT LEDYARD, B.S., California Institute.
- GILBERT DONALD McCANN, B.S., California Institute.
- MORTON ESTES MOORE, B.S., California Institute.
- ✓ LOUIS TELEMACHUS RADER, B.A.Sc., University of British Columbia.
- ✓ JACK MOODY ROEHM, B.E., Tulane University.
- LOUIS PERRY SEXTON, B.S., California Institute.

MECHANICAL ENGINEERING

- MILFORD CARLSON CHILDERS, B.S., California Institute.
- FRANCIS HETTINGER CLAUSER, B.S., California Institute.
- MILTON URE CLAUSER, B.S., California Institute.
- ✓ PHILIP ABBEY COLMAN, B.S., Stanford University.
- LEWIS FORT ETTER, B.S., California Institute.
- ERNEST RUSSELL HOWARD, B.S., California Institute.
- WALTER LAVERN HOWLAND, B.S., California Institute.
- ✓ WILLIAM WHITTEN JENNEY, B.S., University of Michigan.
- ✓ EDWARD LUCAS KELLS, Bachelor Mechanical Engineering, University of Minnesota.
- ✓ FRANK JOSEPH MALINA, B.S., A. and M. College of Texas.
- ✓ VICTOR JOHN MARTIN, B.S., University of Southern California.
- HAROLD FRANK RICHARDS, B.S., California Institute.

CIVIL ENGINEERING

- ✓ GLENN CHEW CHAN, B.S., University of California at Los Angeles.
- ✓ ARTHUR THOMAS IPPEN, Diplom-Ingenieur, Technische Hochschule, Aachen, Germany.
- PAUL LOUIS KARTZKE, B.S., California Institute.
- DARRELL HAYES SLUDER, B.S., California Institute.
- WALTER SCHOLTZ, B.S., California Institute.

AERONAUTICAL ENGINEERING

- ✓ HANS MARTIN ANTZ, Diplom-Ingenieur, Technische Hochschule, Darmstadt, Germany.
- ✓ WALLACE MORRIS BEAKLEY, Lieut., U.S.N., United States Naval Academy.
- ✓ KANAME KITUSDA, B.S., Tri-State College; M.S., California Institute.
- ✓ HOWARD MONROE MCCOY, 2nd. Lieut. A.C.U.S.A., United States Military Academy.
- ✓ WARREN SHERMAN PARR, Lieut. U.S.N., United States Naval Academy.
- ✓ JAMES SARGENT RUSSELL, Lieut. (j.g.) U.S.N., United States Naval Academy.
- ✓ ROLAND JAMES WHITE, B.S., University of California; M.S., California Institute.
- ✓ CARLOS CLAUDE WOOD, A.B., College of the Pacific; M.S., California Institute.

METEOROLOGY

- ROBERT DAWSON FLETCHER, B.S. and M.S., California Institute.
- ✓ PATRICK JOHN D. HARNEY, B.S., Clarkson College of Technology.
- ✓ FUN-CHANG HUANG, B.S., National Southeastern University of Nanking.
- ✓ HSIA-CHEN HUANG, B.S., National Northeastern University of Nanking.
- ✓ ROBERT MOFFATT LOSEY, 1st. Lieut. A.C.U.S.A., United States Military Academy.
- ✓ ELMO STEWART MATTHEWS, 1st Lieut. Sig.C.U.S.A., United States Military Academy.
- ✓ DON McNEAL, Capt. Sig.C.U.S.A., B.S., Ohio State University.
- ✓ HERMAN GUSTAVE PORTMAN, Jr., B.S.E. (A.E.E.) University of Michigan.
- ✓ DONALD H. RICKETTS, B.S., University of Utah.
- ✓ RICHARD ERVINE SLAUGHTER, B.S. in M.E., Southern Methodist University; M.S., California Institute.
- ✓ KENNETH A. WILLARD, B.S., Northwestern University; M.S., California Institute.
- ✓ LOUVAN ELBERT WOOD, B.Sc., Alma College.

Bachelor of Science

SCIENCE

- | | |
|-------------------------------|-------------------------------|
| JOSEPH ALBERT ASHWORTH | *THOMAS JAY DEAHL |
| †LAWRENCE WILLIAM H. BALDWIN | ALBERT ORNO DEKKER |
| LEON SANGAMON BECKER | †ROBERT HENRY DOURSON |
| ALAN BEERBOWER | EUGENE LEROY EDWARDS |
| WARD WILSON BEMAN | CHARLES HALSEY ELMENDORF, III |
| LEWIS BLAKELY BROWDER | ARTHUR EDWARD ENGELDER |
| *†HORACE WILLARD DAVENPORT | HARRY DE ESTES |
| JAMES ALLMAN DAVIES, II | MILTON HARRISON EVANS |
| CHARLES ALEXANDER DAWSON, JR. | *CLIFFORD SYMES GARNER |

* Graduated with honor in accordance with a vote of the Faculty.

† Awarded the Honor Key by the Associated Student Body for participation in student activities.

Bachelor of Science

SCIENCE—Continued

ADRIAN HUGO GORDON
 *EMERSON WARD GREEN
 RALPH E. HOMANN, JR.
 BYRON NOLL INMAN
 *†RICHARD HENRY JAHNS
 ROBERT GARDNER JONES
 WILLIAM FORREST KEYES, JR.
 PAUL WILLIAM KILPATRICK
 FRED CHARLES KING, JR.
 DAVID JOHN LEHMICKE
 *†HENRI ARTHUR LEVY
 †CHESTER WILLIAM LINDSAY
 *WILLIAM BURDETTE MCLEAN
 *RICHARD BURTON NELSON

NELSON PERRY NIES
 CHARLES WASHINGTON PATRICK
 LEONARD SEARLES PATTERSON
 *KENNETH SANBORN PITZER
 *HERBERT SPENCER RIBNER
 IVAN VICTOR SCHERB
 †HAROLD SCHILLER
 DICKSON MARSHALL SHEPPARD
 JAMES BATES STODDARD
 HENRY WILLIAM STOLL
 †LAURENCE JUSTINIAN STUPPY
 JAY CAMBURN TAYLOR
 GEORGE JARVIS TOOBY
 *ROBERT COLLETT WARNER

ENGINEERING

FREDERICK HAMILTON ALLARDT
 HORACE WHITE BAKER
 DONALD NEWTON CHAMBERLAIN
 CLYDE CUTHBERTSON CHIVENS
 †WILLIAM GORDON COX
 LIND BURNETT DAVENPORT
 †CHESTER ARTHUR DAVIS
 NORMAN BRANSON DEWEES
 OLIVER CHURCHILL DUNBAR
 JACKSON EDWARDS
 GUSTAVE EHRENBERG, JR.
 GORDON RICHARDSON EWING
 GREER WILSON FERVER
 ROBERT GEORGE FUSSELL
 FRANCIS ROWELL GAY
 JOHN ROSWELL GELZER
 CHARLES JAMES GIBBS
 HOWARD PHILIP GLUCKMAN
 EUGENE GRAHAM, JR.
 BRUCE BENSON GRAVITT
 *†THOMAS WILLIAM GRIFFITHS
 †ROBERT JOHN HALLANGER
 JAMES JOSEPH HALLORAN
 JOHN BALL HIGLEY
 *JAMES HENRY JENNISON
 *†WALLACE J. S. JOHNSON
 ROBERT PARRY JONES
 PAUL ALTON JOSEPH
 NATHAN KARP
 MILO CLEMENT KETCHUM
 HARRY MONTFORD KOONS
 †ROBERT LINCOLN KRAMER
 ROBERT ORVILLE LA RUE

ELMER LOUIS LEPPERT, JR.
 FRED VERN MALONEY
 ROBERT ALEXANDER McRAE
 FRANZ NELSON MERRALLS
 DANIEL HARRISON MILLER
 †EUGENE CLAIR MILLER
 WILLIAM CARTER MOSTELLER
 TANEMI OBATAKE
 FREDERICK PEHOUSHEK
 PERRY PAUL POLENTZ
 †WARREN THOMAS POTTER, JR.
 ALBERT ALLEN RAY
 EDWARD HENRY REYNOLDS
 JOHN RITTER
 DAGOBERTO RIVAS
 JOHN RUDOLPH ROSSUM
 JACK WILLIAM SCHWARTZ
 CLAUDE TRICK SCOTT
 *ALLAN ROMIG SCOVILLE
 ROBERT KLENSCH SEIDEL
 SANDER DAVID SHEFF
 ALFRED LEON SLATER
 *GALE MORELAND SMITH
 JAMES NORMAN SMITH
 ROBERT M. STANLEY
 †JOHN CHESTER STICK, JR.
 CHARLES FRANKLIN THOMAS
 CHARLES SUMNER THOMPSON, JR.
 MABRY VAN REED
 †DONALD CHARLES WEBSTER
 VICTOR WILMER WILLITS, JR.
 HERBERT LEE WOODBURY
 BRADLEY HOBART YOUNG

* Graduated with honor in accordance with a vote of the Faculty.

† Awarded the Honor Key by the Associated Student Body for participation in student activities.

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.