CALIFORNIA INSTITUTE OF TECHNOLOGY

ANNUAL COMMENCEMENT

June 13th, 1941 ... 4:00 p.m.
PROGRAM

PROCESSIONAL MARCH
Processional - - - - - - L. Ganne

INVOCATION AND CHAPLAIN'S ADDRESS
Reverend John F. Scott, D.D.

COMMENCEMENT ADDRESS
THE SURVIVAL OF DEMOCRACY
Australian Minister to the United States

CONFERRING OF DEGREES
Candidates presented by
Frederic W. Hinrichs, Jr., A.M., Dean of Upper Classmen
W. R. Smythe, Ph.D., Chairman of the Committee on the Course in Science
W. W. Michael, B.S., Chairman of the Committee on the Course in Engineering
William V. Houston, Ph.D., Acting Dean of the Graduate School

Degrees conferred on behalf of the
Trustees and Faculty by
Robert Andrews Millikan, Ph.D., LL.D., Sc.D., Chairman of the Executive Council

FIFTY YEARS OF THE DEVELOPMENT OF AN IDEA
Dr. Millikan

Benediction
CANDIDATES FOR DEGREES

DOCTOR OF PHILOSOPHY

EDGAR L. ARM (Physics), Diploma, Munich Institute of Technology, 1931; M.S., California Institute, 1939. Thesis: Electrical Conduction and Crystallization Phenomena in Thin Lead Films at Temperatures between 140°K and 500°K.


WILLIAM RAYMOND BERGEN (Biology), B.S., California Institute, 1932. Thesis: Studies upon the Isolation and Identification of Auxins in Plant Materials.


CHRIS GREGORY (Physics), B.S., California Institute, 1938; M.S., 1939. Thesis: Resonance Broadening of Homogeneous Caesium Vapor in Absorption.


GEORGE WILLIAM HOUSNER (Civil Engineering), B.S., University of Michigan, 1935; M.S., California Institute, 1934. Thesis: An Investigation of the Effects of Earthquakes on Buildings.


AERONAUTICAL ENGINEER

THOMAS ASHWORTH, JR., B.S., United States Naval Academy, 1931.

RICHARD WILLIAM BELL, B.A., Oberlin College, 1939.

CARL FILLMORE DAMBERG, B.S., United States Military Academy, 1931.

PAUL HOWARD DANE, B.S., California Institute, 1934.

JOHN ANDREW DILWORTH, B.S., Louisiana State University, 1939; B.S., in AE, California Institute, 1940.

CHARLES FINK FISCHER, B.S., United States Naval Academy, 1934; B.S. in AE, California Institute, 1940.

WILLIAM WALLACE HOLLISTER, B.S., United States Naval Academy, 1931.

ELLIS LAPIN, B.S., Drexel Institute of Technology, 1939; B.S. in AE, California Institute, 1940.

HARLOWE JULIUS LONGFELDER, B.S., California Institute, 1939; B.S., in AE, 1940.

HOWARD MONROE MCCOY, B.S., United States Military Academy, 1930; M.S., California Institute, 1935.

HARRISON ALLEN STORMS, JR., B.S., Northwestern University, 1938; M.S., 1939; B.S., in AE, California Institute, 1940.

CHARLES HOUSTON TERHUNE, JR., B.S.M.E., Purdue University, 1938.

THOMAS DONALD TYRA, B.S., United States Naval Academy, 1931.

B.S., California Institute, 1939; B.S. in ChE, 1940.

CHEMICAL ENGINEER

B.S., California Institute, 1939.

IRVINE FISK GERMAN, JR., B.S., California Institute, 1940.

ROBERT STANLEY RAY, JR., B.S., California Institute, 1940.

RANDLOW SMITH, B.S., California Institute, 1940.

GEOLOGICAL SCIENCES

ALAN JOHN GROBECKER, B.S., California Institute, 1937.

JOHN THOMAS JORDAN, B.A., University of California at Los Angeles, 1938.

P. R. LIEBER, Johns Hopkins University.

LLOYD ALAN LEWIS, E.M., University of Minnesota, 1938.

MILLER WINTHROP QUARLES, JR., B.S., California Institute, 1940.

LOUIS JOHN REGAN, JR., B.S., California Institute, 1939.

JOHN JOSEPH RUPNIK, Geological Engineer, Colorado School of Mines, 1933.

MATHEMATICS

JOHN ROBERT WOOLSON, Ph.B., Gonzaga University, 1936; B.S., California Institute, 1938.

PHYSICS

LUDWIG EPSTEIN, B.S., California Institute, 1940.

ALEX E. S. GREEN, B.S., College of the City of New York, 1940.

ELDRED WILSON HOUGH, B.S., University of Illinois, 1939.

LELAND GEORGE SWART, B.S., University of Michigan, 1940.
MASTER OF SCIENCE IN ENGINEERING

AERONAUTICS

- Charles Little Blake, B.S., Louisiana State University, 1940.
- Chang Chieh-Chien, B.A., National Northeastern University, 1932.
- Ernest Gunther Chilton, B.S., Massachusetts Institute of Technology, 1940.
- Buck-Sam Chu, B.S., National Sun Yat-sen University, 1938.
- Frank Greene Denison, Jr., S.B., Massachusetts Institute of Technology, 1940.
- Walter E. Fellers, B.A., College of the Pacific, 1940.
- John Edward Goode, Jr., A.B., University of North Carolina, 1940.
- Charles Lewis Cobb, B.S., University of Notre Dame, 1940.
- LeRoy Gram Wiegand, B.C.E., Ohio State University, 1940.
- Robert H. Weight, B.S., Utah State Agricultural College, 1940.

CIVIL ENGINEERING

- Donald Eugene Albert, B.A., University of Redlands, 1937.
- Norman Zinkan Alcock, B.Sc., Queens University, 1940.
- Howard Baller, B.S., California Institute, 1940.
- Donald Bell Carson, B.S., California Institute, 1940.
- Charles Stinson Myers, B.S., Alabama Polytechnic Institute, 1939.
- Albert Petratis, B.S., Armour Institute of Technology, 1935.
- Edward Elmer Shelton, B.S., University of Washington, 1939.
- Charles Harold Wilts, B.S., California Institute, 1940.
- En-Yung Yu, B.S., Chiao-Tung University, 1936.

ELECTRICAL ENGINEERING

- Charles Lewis Cobb, B.S., University of Notre Dame, 1940.
- LeRoy Gram Wiegand, B.C.E., Ohio State University, 1940.
- Robert H. Weight, B.S., Utah State Agricultural College, 1940.

MECHANICAL ENGINEERING

- Robert Ward Bates Alcock, B.S., California Institute, 1940.
- Leo Jeré Brandenburger, B.S., University of Utah, 1940.
- Robert Clarence Brumfield, B.S., California Institute, 1940.
- James Vaile Crawford, B.S., California Institute, 1940.
- Herbert Bailey Ellis, B.S., California Institute, 1938.
- Frank Parker Lockard, B.S., Northwestern University, 1940.
- Jules Frederick Mayer, B.S., California Institute, 1940.
- George Kiyoshi Morikawa, B.S., California Institute, 1939.
- George Judson Todd, B.S., California Institute, 1940.

METEOROLOGY

- John Knox Arnold, Jr., B.S., United States Military Academy, 1936.
- John Allen Battle, B.S., California Institute, 1939.
- Sidney Clyde Bruce, B.S., University of Colorado, 1940.
- Norman Hubert Caldwell, B.S., University of California, 1940.
- Carl Wilbert Carlmark, B.S., United States Military Academy, 1931.
- Delmar Lester Crowson, B.A., University of California at Los Angeles, 1940.
- Gerrit Daams, B.S., California Institute, 1940.
- Darrell W. Diebert, B.S., State College of Washington, 1939; M.S., 1940.
- Samuel James Easley, B.S., Agricultural and Mechanical College of Texas, 1936.
- Robert Howard Ehrke, B.S., Agricultural and Mechanical College of Texas, 1939.
- Richard Elmer Ellsworth, B.S., United States Military Academy, 1935.
ROBERT ERNIE FLEMING, B.S., California Institute, 1940.

JAMES VERN HALES, A.B., Brigham Young University, 1938.

EDWARD ABBOTT HALL, A.B., University of California, 1939.

DANIEL SAM HAMWAY, B.S., South Dakota State School of Mines, 1939.

BENJAMIN WILLIAM HELMICK, B.S., Iowa State College, 1940.

PRESTON LOUIS HILL, B.A., Pomona College, 1939.

JACK M. HUDDARD, B.S., Washington State College, 1938; M.S., 1939; B.E., 1940.

CHARLES BENJAMIN JOHNSON, B.S., Knox College, 1931; M.A., University of Illinois, 1933.

LOUIS LAWRENCE KOHL, B.S., California Institute, 1939.

GERALD BALFOUR LEVAN, B.S., California Institute, 1940.

JOSEPH ALFRED MILLER, JR., B.S., United States Military Academy, 1937.

YOSHINAO NAKADA, B.S., University of California, 1940.

FREDERICK CARL EMIL ODER, B.S., California Institute, 1940.

GREENUP BIRD PATTERSON, JR., A.B., Occidental College, 1940.

ISADORE IRVING PORUSH, B.A., University of California at Los Angeles, 1939.

WILLIAM HERBERT REMPHEL, B.A., Montana State University, 1939.

VIRGIL E. SANDIFER, A.B., Occidental College, 1939.

VON ROY SHORES, JR., B.S., United States Military Academy, 1936.

HERMAN WALTON SMITH, JR., B.S., Oklahoma Agricultural and Mechanical College, 1938; A.B., 1939; M.A., University of Texas, 1940.

NORMAN CALVERT SPENCER, JR., B.S., United States Military Academy, 1936.

CLYDE TILDEN STANDRIDGE, B.S., University of Oklahoma, 1940.

NEWTON C. STONE, B.Ed., Southern Illinois State Normal University, 1934; M.S., University of Illinois, 1935; B.S. in My, California Institute, 1940.

WILLIAM WELCH STONE, JR., B.S., California Institute, 1940.

C. LEON RATCLIFF, B.A., Southwestern College, 1940.

FREDERICK GEORGE ROBINSON, B.S., University of Colorado, 1940.

FRANCIS ROBERT RYAN, B.S.C.E., Santa Clara University, 1939.

PARKE PURDY STARKE, JR., B.S., University of Richmond, 1940.

ROBERT WINSLOW WINCHELL, B.S., California Institute, 1939; M.S., in EE, 1940.

SAMUEL WOLFE, B.S., University of Utah, 1939.

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BACHELOR OF SCIENCE (FIVE YEAR COURSE)

METEOROLOGY

JAMES V. BASSETT, B.S., Nebraska State Teacher’s College, 1940.

WOODBURN ALLEN BROWN, B.A., Montana State University, 1939.


ROBERT WARREN DURRENBURGER, B.E., Moorhead State Teacher’s College, 1940.

JOHN MACGREGOR FEELY, JR., E.M., Colorado School of Mines, 1938.

JAMES RICHARD GARRETT, A.B., Lenoir Rhyne College, 1940.

JACK TICHENER GUERIN, A.B., Stanford University, 1940; M.S., in ME, California Institute, 1940.

DONALD LLOYD HARVEY, B.S., Colorado University, 1939.

CHARLES TALMAGE HIGHT, B.A., Iowa Wesleyan College, 1940.

MARION ERNEST HINES, B.S., California Institute, 1940.

OLIVER KENTON JONES, B.S., University of Texas, 1939.

BILAN RUPHUS NELSON, B.A., Luther College, 1934.

DONALD SETH NICHOLSON, B.A., Pomona College, 1940.

C. LEON RATCLIFF, B.A., Southwestern College, 1940.

FREDERICK GEORGE ROBINSON, B.S., University of Colorado, 1940.

FRANCIS ROBERT RYAN, B.S.C.E., Santa Clara University, 1939.

PARKE PURDY STARKE, JR., B.S., University of Richmond, 1940.

ROBERT WINSLOW WINCHELL, B.S., California Institute, 1939; M.S., in EE, 1940.

SAMUEL WOLFE, B.S., University of Utah, 1939.
BACHELOR OF SCIENCE (FOUR YEAR COURSE)

SCIENCE

Edward Kirk Abbey
Wayne Gordon Abraham
Grice Axelman
Newell Ballreich
Glenn Wagner Billman
Fred Wallace Billmeyer, J. R.
Robert Ryland Bowles
Robert Glenhart Bowlus
Charles Mallory Buchzik
Robert Buss
William F. Chapin
Robert George Cooper
William Harrison Corcoran
Frank Host Dickey
George Martin Dorwart
Quentin Elliott
Paul Stephen Farrington
Paul Harry Faust
Paul Robinson Freehafer
Robert Benjamin Galeski
Robert Charles Geitz
Jerome Maurice Green
George Adams Hardenbergh
James Turner Harlan, J. R.
George Bowman Harr
Thomas Jason Hassard
Wallace Dean Hayes
William Benton Hebenstreit
Kim Hill, J. R.
Kenyon Bales Howard
Miyoshi Ikawa
Carol Kazuo Ikeda
Homer Jacobson
Jeremy Alton Jones
John W. Jones
Bruce Ernest Lawrence
Leo Charles Levitt
Harry W. Lew
John Hamilton Main
Ralph Carroll Maninger
Stanley John Mitchell
Charles L. Moore
Livingstone Porter, Jr.
John Mead Richardson
Charles Brandt Roen
Joseph Franklin Roming
Robert Patterson Routt
Claude Stanley Rupert, Jr.
Frank Hamilton Skalecky
John Gilbert Small
John Daniel Spikes
Delbert D. Thomas
Joseph Warren Trindle
Clifford Amrose
Truesdell, III
Dale Edward Turner
Edmund Forrest Tyler
Clyde Adolph Wahrhaftig
Roger Wallace
Lawrence Curtis Widdoes
Lindley Sothern Wilson

ENGINEERING

Roy Mitchell Acker
Arthur Searle Benson
Alfred John Bersbach
George Hardy Bramhall
Phillip Daniel Brooks
Donald Cameron Campbell
Carl Arthur Carlson
John H. Carr
Frank Gordon Casserly
Frederick Weaver Clarke, III
Charles Lee Dailey
Walter Z. Davis
Donald Edwin Dawson
William L. Deniston
Douglas Gordon Dell
Willis E. Dobbs
Gene Lloyd Edwards
Merritt Varns Eusey, J. R.
Grant Walker Ewald
Robert E. Fisher
Glyn Frank-Jones
Arden Hugo Fredrick
Sidney Kilburne Gally
John William Gillings
Francis Greenhalgh
John Broddy Hiatt
Tom Hudspeth
William Lee Ingersoll
Gilbert Allan Jones
Robert Edmond Kingsmill
Emerson Hogue La Bombard
Eugene Alexander Lakos
Robert Benjamin Leighton
Berl D. Levinson
Joseph Walters Lewis, Jr.
Calvin Washburn Long
Donald Frederick James McIntosh
Robert Francis Myers
Robert LeRoy Noland
John Gordon Palmer
Newell Thompson Partch
John gravyon Partlow
John Joseph Paulson
Ralph Peters
George Irving Reimers
George Chitsugi Sakai
Alfred Schaff, J. R.
William Schubert
Richard Frederick Silverstein
Reuben Snodgrass
Stanley Edward Sohler
Clarence Bernhard Stadum
Wilton Aelxander Stewart
Robert Franklin Strickler
Stanley Grover Stroud
C. Victor Sturdevant, III
Norman F. Svendsen
Frederick William Thiele
Onick Vartikian
Richard McKown Vaughan
Ebenezer Vey
William John Wagner
Edwin Prescott Wald
Dana Ernest Washburn
Joseph Weiss
John Robertson White
Thomas Leeming White
David S. Wood
Cecil Gilbert Young
George Keirn Zebl

†Awarded the Honor Key by the Associated Student Body for participation in student activities.
*Graduated with honor in accordance with a vote of the Faculty.
‡Degree awarded posthumously.