

CALIFORNIA
INSTITUTE
OF
TECHNOLOGY

COMMENCEMENT
EXERCISES
JUNE 21, 1946
4:00 P. M.

DABNEY GARDEN

PROGRAM

CONCERT AND PROCESSIONAL MARCH

The Institute Orchestra

INVOCATION

The Reverend G. A. Warmer, *Minister of the Holliston Avenue Methodist Church of Pasadena.*

COMMENCEMENT ADDRESS

William Vermillion Houston, Ph.D., *President of Rice Institute*
"Science and Government"

CONFERRING OF CERTIFICATES AND DEGREES

Candidates presented by

Franklin Thomas, C.E., *Dean of Upper Classmen*

W. R. Smythe, Ph.D., *Chairman of the Committee on the Course in Science*

William W. Michael, B.S., *Chairman of the Committee on the Course in*
Engineering

Earnest C. Watson, Ph.B., *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.

CERTIFICATE PRESENTATION

Captain S. Y. Cutler, U.S.N.

BENEDICTION

CANDIDATES FOR SENIOR CERTIFICATE

WAYNE STURGE BLACKMAN
JOSEPH PAGE COLLEY

ROBERT LEE PEELER, JR.
CHRESTEN MILLS KNUDSEN

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN SCIENCE

CIVILIAN STUDENTS

DAVID R. ESNER
WALTER ALFRED LONG*

WILLIAM GRIFFIN MISNER
WILLIAM MOJE

DAVID BUTTERFIELD SHELDON
HERBERT WILLIAM STRONG, JR.

NAVY V-12 STUDENTS

DENNIS JOSEPH AHERN
DALE EDWARD BEMENT
EDWARD ELMER CARR
LOYD WILLIAM CHAMERLAIN
BERNARD EMILE DETHIER
DONN EMERY HOPKINS

WILBUR ATWOOD INGRAM
FRANK CARL JORGENSEN
THOMAS WOODWARD KELLY
DAVID RICHARD LEWIS
NORMAN JOSEPH MACDONALD
HOWARD WALL MORGAN, JR.

ROBERT LEE NEWBROUGH
ROBERT CHARLES SIEGEL
MILTON ARTHUR STRAUSS
ROBERT ERNEST TUCKER
ROBERT CAMPBELL WISE
HOWARD RUSSELL WOODS

CANDIDATES FOR THE DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING

CIVILIAN STUDENTS

ROBERT FRANCIS BLOCKER
BENNETT BOVARNICK
DONOVAN CHESTER DAVIS
RICHARD HERBERT DELANO

PETER FAGAN
NORMAN ROBERT GREVE
LAURENCE OLIVER HAUPT, JR.
DAVID COLVILL LINCOLN*

GLYNN HUSTED LOCKWOOD
FRED PHILLIP ROBINS
LOUIS VINCENT SCHMIDT
CONRAD P. STENSGAARD, JR.

NAVY V-12 STUDENTS

PHILLIP NOLEN BUFORD
JOHN PETER CALLIGEROS
JEROME PACKARD DYSON
WILLIAM FREDERICK EVENSON

FRANK SUMNER GATES
ROBERT HARRY GRUBE
BENJAMIN STILES HAYNE, III
EDWARD STANLEY IDA*

PAUL CARDON RICKS, JR.
JEROME WILLIAM SCHNEIDER
JOHN VAN BENTHUYSEN
JERRY APOSTOLES ZAGORITES

NAVY ORDNANCE OFFICER

JAMES BENJAMIN STICHKA, Lt., U.S.N.R.*

MASTER OF SCIENCE IN SCIENCE

Chemistry

THEODORE SILKMAN GILMAN, B.A., Williams College, 1940.
FERN WOOD MITCHELL, JR., A.B., University of Alabama, 1938.

Geological Sciences

VICTOR ARI A., B.S., Tomas Frias University, Bolivia, 1943; M.S. (C.E.), California Institute of Technology, 1945.
WILLIAM THOMAS-HOLSER, B.S., California Institute of Technology, 1942.
JOHN OSCAR NIGRA, A.B., University of Texas, 1937.

**Graduated with honor*

Meteorology

RALPH WILLIAM ALLEN, B.B.A., University of Cincinnati, 1942.
PATRICK ROBERT JAMELE, A.B., Columbia College, 1927.
BYRON ORDWAY LOWERY, A.B., Whitman College, 1938.
ROBERT HERB REECE, B.S., University of New Mexico, 1942.
DANSY TRITE WILLIAMS, B.S., Wisconsin State Teachers College, 1940.

Physics

GEORGE LEE BATE, A.B., Princeton University, 1945.
DWAYN BURNS BOWEN, B.S., California Institute of Technology, 1942.
CHARLES BULLARD DOUGHERTY, B.S., Iowa State College, 1945.
LAWRENCE D'ARLE HINDALL, B.S., Carnegie Institute of Technology, 1942.

MASTER OF SCIENCE IN ENGINEERING

Aeronautics

JOHN HENRY ALTSEIMER, B.S., University of Wisconsin, 1941.
HARRY ISRAEL ASHKENAS, B.S., University of California, 1944.
BORIS BRESLER, B.S., University of California, 1941.
PATRICK STANLEY CHASE, B.S., California Institute of Technology, 1943.
CHARLES W. COLE, B.A.E., University of Minnesota, 1940.
JULIAN D. COLE, M.E., Cornell University, 1944.
FRANK JOHN DORE, B.S., California Institute of Technology, 1945.
MIKE WALTER FOSSIER, B.S., Louisiana State University, 1945.
THEODORE ROBERT GOODMAN, B.A., Rensselaer Polytechnic Institute, 1945.
JOHN N. KLEISSAS, B.S., University of Pittsburgh, 1943.
MORRIS LBOVITS, B.S., University of Illinois, 1940.
BERNARD BARCLAY LEVITT, B.S., University of Colorado, 1941.
EDMUND BLAKE MASKE, JR., B.S., Louisiana State University, 1942.
GEORGE MARSHALL PALMER, JR., B.S., Purdue University, 1945.
HENRY THOMAS PONSFORD, A.B., Stanford University, 1944.
AUDRE RICHARDSON, B.S., California Institute of Technology, 1943.
JOHN GILBERT SMALL, B.S., California Institute of Technology, 1941.
NATESAN SRINIVASAN, B.S., Madras University, India, 1938.
LEON TRILLING, B.S., California Institute of Technology, 1944.
MAHINDER SINGH UBEROI, B.S., Forman Christian, India, 1944.
DAVID HUGH WHITLOW, B.S., University of Washington, 1943.
MELVIN NOBLE WILSON, JR., B.S., California Institute of Technology, 1945.
JOHN WINTHROP BARNES, Major, U.S.A., B.S., United States Military Academy, 1942.
WILLIAM LORING CLAY, Lt.Col., U.S.A., B.S., United States Military Academy, 1940.
THOMAS FREDERICK COLEMAN, Lt., U.S.A., B.S., University of Michigan, 1943.
JOHN OLIVER CRUM, Major, U.S.A., B.S., Massachusetts Institute of Technology, 1940.
GUY HUMPHREY DREWRY, JR., Capt., U.S.A., B.S., Virginia Military Institute, 1941.
HARRY LANE GEPHART, Major, U.S.A., B.S., New Mexico State Teachers College, 1937.
RICHARD JOSEPH GIFFORD, Major, U.S.A., B.S., Iowa State College, 1942.
CARL FREDERICK HAGENMAIER, Lt., U.S.A., B.S., Purdue University, 1945.
DOUGLAS WARWICK HEGE, Capt., U.S.A., B.S., Duke University, 1942.
JOHN STANLEY INGHAM, Lt., U.S.A., B.S., Worcester Polytechnic Institute, 1941.
JOHN RALPH JACOBSEN, Capt., U.S.A., B.S., Purdue University, 1941.
CHARLES HENRY KING, JR., Capt., U.S.A., B.S., Massachusetts Institute of Technology, 1941.
WILLIAM EDWARD KINNEY, Lt. Col., U.S.A., B.S., University of Dayton, 1940.
HAROLD CECIL LARSEN, Lt., U.S.A., B.S., University of Utah, 1941.
CHARLES COLEMAN MARTIN, JR., Lt., U.S.A., B.S., United States Military Academy, 1944.
JOHN WILLIAM MCCURDY, Lt., U.S.A., B.S., University of Pittsburgh, 1943.

MASTER OF SCIENCE IN ENGINEERING

Aeronautics

- JOHN CHARLES NICKERSON, JR., Lt. Col., U.S.A., B.S., United States Military Academy, 1938.
ROBERT GRIER PARKE, Capt., U.S.A., B.S., University of Pittsburgh, 1942.
CHARLES CLIFFORD PINKERTON, JR., Capt. U.S.A., B.S., United States Military Academy, 1943.
JOHN CARL SILTANEN, Major, U.S.A., B.A.E., New York University, 1938.
BASIL GEORGE STERGIS, Lt., U.S.A., B.S., Drexel Institute of Technology, 1943.
STUART ALLEN WARREN, Capt., U.S.A., B.S., Oregon State College, 1941.
THOMAS FRANKLIN WELDON, Major, U.S.A., B.S., College of the Holy Cross, 1941.
JOHN BERWICK ANDERSON, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
FRANK HORACE BROWNING, JR., Comdr., U.S.N., B.S., University of Washington, 1936.
KENAN CLARK CHILDERS, JR., Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
WILLIAM EDGAR DAVIS, III, Lt., U.S.N.R., B.S., University of Pennsylvania, 1942.
RICHARD BRUCE FOSTER, Lt., U.S.N.R., B.S., Newark College of Engineering, 1939.
EDMOND STEPHEN GILLETTE, JR., Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1940.
CHARLES CALVIN HOFFMAN, Lt. Comdr., U.S.N., B.S., Northwestern State Teachers College, 1936.
STANLEY WILLIAM KERKERING, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
NORMAN JACK KLEISS, Comdr., U.S.N., B.S., United States Naval Academy, 1938.
GEORGE HANNIBAL KRONMILLER, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1940.
FREDERICK JAMES LEWIS, Lt., U.S.N.R., B.S., St. Edward's University, 1940.
FREDERICK WILLIAM MAXWELL, JR., Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1941.
JAMES WILLIAM MCCONNAUGHAY, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
JAMES FREDERICK PARKER, Comdr., U.S.N., B.S., Georgia School of Technology, 1938.
WEBSTER CHARLES ROBERTS, Ens., U.S.N.R., B.S., Case School of Applied Science, 1940; M.S.,
Lehigh University, 1942.
CHARLES ROBERTS RUSSELL, Ens., U.S.N.R., B.S., State College of Washington, 1936; M.S., University
of Wisconsin, 1939; Ph.D., University of Wisconsin, 1941.
ROBERT JAMES TRAUER, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
RICHARD McCLELLAN TUNNELL, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
HARRY LANSING VINCENT, JR., Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1941.
DANIEL KEHR WEITZENFELD, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.

Civil Engineering

- JOSE ANTONIO ARGUEDAS, B.S., Georgia School of Technology, 1944.
JOSE DANIEL CORTES-GUZMAN, Agr. Eng., National Agricultural School, Mexico, 1945.
RICHARD HORTON COX, B.S., California Institute of Technology, 1942.
MUNSON WHITE DOWD, B.S., California Institute of Technology, 1938.
CLAUDIO FEDERICO STEGMANN, C.E., University of Buenos Aires, Argentina, 1936.

Electrical Engineering

- MORTON MICHAEL ASTRAHAN, B.S., Northwestern Technological Institute, 1945.
WILLIAM WALKER BUTLER, B.S., Iowa State College, 1940.
ROBERT FAIRBANK CLINE, B.A., University of Toronto, Canada, 1936.
CHARLES MELVILLE DAVIS, B.S., California Institute of Technology, 1945.
GEORGE SAMUEL FENN, B.S., California Institute of Technology, 1945.
ERIC GILBERT LAUB, B.S., California Institute of Technology, 1940.
RICHARD ALAN MONTGOMERY, B.A., University of British Columbia, Canada, 1940.
ROBERT LEROY SCHRAG, B.S., Kansas State College, 1945.
YU-SIU TUNG, B.S., Nankai University, China, 1936.
CARL PAUL WIEDOW, A.B., Occidental College, 1933; M.S., University of Southern California, 1935;
M.S. (Phys.), California Institute of Technology, 1945.

Mechanical Engineering

- JOHN T. BOWEN, B.S., California Institute of Technology, 1942.
FRANCIS BARTON BROWN, A.B., Stanford University, 1935.
HOWARD NORMAN FARMER, JR., B.S., California Institute of Technology, 1943.

MASTER OF SCIENCE IN ENGINEERING

Mechanical Engineering

HASSAN FATHOLMOLK FATEH, M.E., Honar Sara University, Iran, 1944.
RICHARD A. FAYRAM, A.B., Stanford University, 1945.
JACK RAYMOND KETTLER, B.S., California Institute of Technology, 1944.
CARL RICHARDSON, B.E., Yale University, 1943.
ROBERT DILWORTH BONNER, Lt., U.S.N.R., B.S., Rice Institute, 1943.
HAROLD LAMBERTUS, Lt., U.S.N.R., B.S., Purdue University, 1942.

PROFESSIONAL DEGREE

Meteorologist

CHUNG PEN HO, B.S., National Tsing-Hua University, China, 1932; M.S., California Institute of Technology, 1945.

Aeronautical Engineering

JULIAN D. COLE, M.E., Cornell University, 1944.
JONATHAN WINSON, B.M.E., College of the City of New York, 1943; M.A.E., New York University, 1944.
JOHN BERWICK ANDERSON, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
FRANK HORACE BROWNING, JR., Comdr., U.S.N., B.S., University of Washington, 1936.
KENAN CLARK CHILDERS, JR., Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
EDMOND STEPHEN GILLETTE, JR., Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1940.
GEORGE GRANDCHAMP HALVORSON, Lt. Comdr., U.S.N., United States Naval Academy, 1941.
CHARLES CALVIN HOFFMAN, Lt. Comdr., U.S.N., B.S., Northwestern State Teachers College, 1936.
STANLEY WILLIAM KERKERING, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
NORMAN JACK KLEISS, Comdr., U.S.N., B.S., United States Naval Academy, 1938.
GEORGE HANNIBAL KRONMILLER, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1940.
FREDERICK WILLIAM MAXWELL, JR., Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1941.
JAMES WILLIAM MCCONNAUGHAY, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
LESLIE RICHARD OLSEN, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1941.
JAMES FREDERICK PARKER, Comdr., U.S.N., B.S., Georgia School of Technology, 1938.
EDWARD CRESS SLEDGE, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1940.
ROBERT JAMES TRAUGER, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
RICHARD MCCLELLAN TUNNELL, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.
HARRY LANSING VINCENT, JR., Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1941.
DANIEL KEHR WEITZENFELD, Lt. Comdr., U.S.N., B.S., United States Naval Academy, 1939.

Civil Engineering

CARL B. JOHNSON, B.S., California Institute of Technology, 1937; M.S., California Institute of Technology, 1944.

Mechanical Engineering

DAVID HOLBROOK JARVIS, B.S., University of Utah, 1937; M.S., University of Colorado, 1942.

DOCTOR OF PHILOSOPHY

Biology

WALTER DANIEL BONNER, JR., B.S., University of Utah, 1940.
CLYDE ANDREW DUBBS, B.S., California Institute of Technology, 1943.
CONRAD TUCK ONN FONG, B.S., University of Hawaii, 1939.

Chemistry

WILLIAM NUNN LIPSCOMB, B.S., University of Kentucky, 1941.
WILLIAM SHAND, JR., A.B., Princeton University, 1940.

Electrical Engineering

HOWARD BALLER, B.S., California Institute of Technology, 1940; M.S., California Institute of Technology, 1941.