# CALIFORNIA INSTITUTE OF TECHNOLOGY

COMMENCEMENT EXERCISES FEBRUARY 18, 1944 4:00 P. M.

PASADENA CIVIC AUDITORIUM

# PROGRAM

CONCERT AND PROCESSIONAL MARCH

The Navy V-12 Band

# INVOCATION AND CHAPLAIN'S ADDRESS

The Reverend Lloyd C. Douglas, D.D., LL.D., Litt.D.

### COMMENCEMENT ADDRESS

The Nation's Accomplishments During Two Years of War in the Fields of Research, Production, and Fighting.

Rear Admiral Wilson Brown, U. S. N., Naval Aide to the President

## CONFERRING OF CERTIFICATES AND DEGREES

Candidates presented by

Winchester Jones, A.B., Assistant 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

Roscoe G. Dickinson, 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 Gouncil

"THE YEAR'S PROGRESS"

Dr. Millikan

HYMN: "FOR THOSE IN PERIL ON THE SEA"

(The words are printed on the last page)

BENEDICTION

THE NATIONAL ANTHEM

# Certificates

# CANDIDAT

Hale Chapin Field

Milo Sedgwick Gates

George Meade Holstein, III

Clement Richard Huntsberger

Jeremy Jerome Lamb

Willard Wallace Smith

George Woodbury Stimson

Dean Putnam Stone

Hubert Witter

Harry John Witz

CRAN HARDIN BARROW ARTHUR NAEOLE CARSON HOWARD HOW CHUNG CHAN CHARLES SHIPLEY COX CLIFFORD INGEBRITSON CHMMINGS STANLEY SCHEMMER DAY WILLARD ALMUR DODGE, JR.

GRANT LEE BENSON, JR. FREDERICK BERTRAM ELY DONALD A. KEATING ALFRED GEORGE KNUDSON, JI

### BACE

B

FRANK ANTHONY ALONSO WARREN AMSTER TWAY WALTER ANDREWS\*+ ERTUGUL BIRLIK TAY ROLDEN BORDEN\* **TOSEPH RAYMOND BRUMAN** 

CHARLES GILBERT ALMQUIST, JR. DEAN RODEN CHAPMAN\* HAROLD VICTOR CURCI ELMER SCOTT HALL DAVID ROUX JONES FRANKLIN HENRY KNEMEYER FRANK WELBORN LEHAN\* TOHN WARREN MARSHALL

ANTHONY JOHN ANDREW MORGAN FREDERICK WILLIAM MORRIS, JR. **JOHN BYRD NELSON\*** WHEELER JAMES NORTH HANS NUETZEL OWEN SPENCER OLDS

-Warran Orvil Kott

- William Pickering Harland

# CANDIDATES FOR CERTIFICATES AND DEGREES

### CERTIFICATE

(Names of recipients of certificates will be announced by the Registrar.)

### BACHELOR OF SCIENCE IN SCIENCE

### CIVILIAN STUDENTS

CRAN HARDIN BARROW ARTHUR NAEOLE CARSON HOWARD HOW CHUNG CHANG CHARLES SHIPLEY COX CLIFFORD INGEBRITSON CUMMINGS STANLEY SCHEMMER DAY WILLARD ALMUR DODGE, JR.

THOMAS LEWIS GILBERT\* FORREST RICHARD GILMORE\* LEON GREEN, IR. TAY EDWIN HAMMEL GARMAN HARBOTTLE CARL OGDEN MATTINSON FRANCIS E. ODELLT WILLIAM WILKES OLENBUSH

TAMES MCTAGUE PLOESER WESLEY ROBERT SANDELL RAYMOND ALFRED SAPLIS ALOIS WOLFGANG SCHARDT\* CORNELIUS STEELINK ROBERT G. THOMAS CHARLES ALEXANDER TRILLING WILLIAM MALLEY TRIMBLE

### NAVY V-12 STUDENTS

GRANT LEE BENSON, IR. FREDERICK BERTRAM ELY DONALD A. KEATING ALFRED GEORGE KNUDSON, JR.\* BRUNO HARRISON PILORZ

ROBERT WAYLAND LESTER JOSEPH STEWART MARTIN LOUIS SHREVE OSBORNE\*

MAURICE RATTRAY, JR. IOHN ROBERT REMPEL\* WILLARD RICHARD SCOTT, IR. JAMES TUEDIO

# BACHELOR OF SCIENCE IN ENGINEERING

### CIVILIAN STUDENTS

FRANK ANTHONY ALONSO WARREN AMSTER TWAY WALTER ANDREWS\*+ ERTUGUL BIRLIK TAY ROLDEN BORDEN\* TOSEPH RAYMOND BRUMAN

CHARLES GILBERT ALMOUIST, JR. DEAN RODEN CHAPMAN\* HAROLD VICTOR CURCI ELMER SCOTT HALL DAVID ROUX JONES FRANKLIN HENRY KNEMEYER FRANK WELBORN LEHAN\* JOHN WARREN MARSHALL

ANTHONY JOHN ANDREW MORGAN FREDERICK WILLIAM MORRIS, IR. JOHN BYRD NELSON\* WHEELER JAMES NORTH HANS NUETZEL OWEN SPENCER OLDS

- William Pickering Harland

ROBERT JOSEPH PARKS\* ROLF W. PROTZEN+ DAVID FREDERICK RUTLAND LEROY SANDERS, JR.

ARTHUR WARREN SCHNACKE HARRISON WILLIAM SIGWORTH\* FRANK CHESLEY SMITH, JR.+ SUREYYA RAFET TANYILDIZ

LEON TRILLING **TOHN CHARLES WARREN** DOYLE ERNEST WILCOX\* GREGORY ODD YOUNG

### NAVY V-12 STUDENTS

ROBERT EMERSON ALLINGHAM WILLIAM PERKINS BAIR+ FRANK ARTHUR BARNES\* BARTON BREWSTER BEEK FREDERICK ALBERT BEHRENS, JR. EDWARD ADOLPH GOLDSMITH WILLIAM HOWARD BOND FRANKLIN OTIS BOOTH, IR. Ross Alton Buchanan

WILLIS ARTHUR BUSSARD+ HERBERT JOHN CABRAL KENNETH ROSS DEREMER\* ALVIN MARTIN GALBREATH WINFIELD HENRY HUGHES RALPH WALDO MARSHALL, JR. ROBERT KIDD MITCHELL\* Hale Chapin Field Lewis L. Grimmi

CARL WARREN OLSON HERMAN PROCTOR, IR. RICHARD WARREN SEED George Shor, Jr.\* RICHARD JOSEPH SOIKE ALBERT TENNEY SPAULDING, JR. PAUL HUGO WINTER PAUL LEWIS WOLF

John Hart Wilson

\*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.

# MASTER OF SCIENCE IN SCIENCE

# Biology

KEITH S. DITMAN, B.S., Santa Barbara State College, 1942.

# Chemistry

ALLAN LOUIS GROSSBERG, B.S., California Institute, 1942.

# Chemical Engineering

DANIEL FUNDERBURG BOTKIN, B.S., New Mexico College of Agriculture and Mechanic Arts, 1939.

# Geological Sciences

- WALTER ROSS FILLIPPONE, B.A., Marietta College, 1942.
- √Enrique F. Silgado, Bachiller en Ciencias Matemáticas, Universidad Nacional Mayor de San Marcos,
- Sulhi Yungul, B.S., Montana School of Mines, 1943.

# Physics

- ALAN H. ANDREW, B.S., University of Nebraska, 1942.
- EUGENE WILLIS PETERSON, B.S., Purdue University, 1942.

# MASTER OF SCIENCE IN ENGINEERING

### Aeronautics

HALIT SUNALP, M.S., University of Michigan, 1941.

Civil Engineering

THOMAS GREY CURTIS, B.S., California Institute, 1942.

JOHN MARTIN FRENCH, B.S., California Institute, 1943.

Electrical Engineering

NICHOLAS ANTHONY BEGOVICH, B.S., California Institute, 1943.

Paul Julius Labanauskas, Royal Italian Naval Academy, 1931.

# DOCTOR OF PHILOSOPHY

RICHARD BYRD ESCUE, JR. (Chemistry), B.A., North Texas, Teachers College, 1939; M.A., 1940.

DAVID ROY VINCENT GOLDING (Chemistry), A.B., Harvard College, 1941.

NING Hu (Physics), B.S., National Tsing Hua University, 1938.

Geoffrey Lorrimer Keighley (Biology), B.A., University of Toronto, 1926; M.S., California Institute, 1940.

CHIA CHIAO LIN (Aeronautics), B.S., National Tsing Hua University, 1937; M.A., University of Toronto, 1941.

Don Stanley Martin, Jr. (Chemistry), B.S., Purdue University, 1939.

ROBERT CHARLES McMaster (*Electrical Engineering*), B.S., Carnegie Institute of Technology, 1936; M.S., California Institute, 1938.

HERBERT SARGENT (Chemistry), B.S., California Institute, 1940.

A. MORDECAI ZAREM (Electrical Engineering), B.S., Armour Institute of Technology, 1939; M.S., California Institute, 1940.

# FOR THOSE IN PERIL ON THE SEA

Eternal father, strong to save,
Whose arm hath bound the restless wave,
Who bidds't the mighty ocean deep
Its own appointed limits keep;
Oh, hear us when we cry to Thee,
For those in peril on the sea.

O Christ Whose voice the waters heard And hushed their raging at Thy word, Who walked'st on the foaming deep, And calm amidst its rage didst sleep; Oh, hear us when we cry to Thee For those in peril on the sea!

Most Holy Spirit! Who did'st brood Upon the chaos dark and rude, And bid its angry tumult cease, And give, for wild confusion, peace; Oh, hear us when we cry to Thee For those in peril on the sea!

O Trinity of love and power!
Our brethren shield in danger's hour;
From rock and tempest, fire and foe,
Protect them wheresoe'er they go;
Thus evermore shall rise to Thee
Glad hymns of praise from land and sea.

THIS IS A SONG BENEDICTION which has particular application to sea-faring men. It was written in 1860 by the Reverend William Whiting, clergyman of the Church of England, after he had come through a terrible storm in the Mediterranean Sea. At the United States Naval Academy, this hymn is sung at the conclusion of every service.