

# Commencement

CALIFORNIA INSTITUTE OF TECHNOLOGY  
PASADENA

June 8, 1934, 4:30 o'clock



PROCESSIONAL MARCH—

"Festal March in C" - - - - - *C. W. Cadman*  
THE INSTITUTE BAND

Invocation

HYMN—"America" - - - - - *Smith*

Chaplain's Address

THE REVEREND MERLE NEGLEY SMITH, D.D.

Address

"Literature and Science"  
OSCAR JAMES CAMPBELL, Litt.D.

Presentation of Candidates for Degrees

FREDERIC W. HINRICHES, 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.

Chairman of Committee on Graduate Study

Conferring of Degrees

on behalf of the Trustees and Faculty  
ROBERT A. MILLIKAN, PH.D., LL.D., Sc.D.  
Chairman of the Executive Council

Announcement

SONG—"Hail C. I. T." - - - - - *Barnes*

Benediction

POSTLUDE—"Recessional" - - - - - *Ganne*

(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

- FRANCIS DASHWOOD BODE, B.S. and M.S., California Institute  
JAMES FREDERICK BONNER, A.B., University of Utah  
DONALD SHERMAN CLARK, B.S. and M.S., California Institute.  
JAMES DILLON COBINE, B.S., University of Wisconsin; M.S., California Institute.  
HORACE RICHARD CRANE, B.S., California Institute.  
CLYDE BROOKS CRAWLEY, A.B. and M.S., University of Kentucky.  
HENRY BLYTHE DEVORE, B.S. and M.S., Pennsylvania State College.  
BERNARD NEIL DICKINSON, B.A. and M.S., University of Oklahoma.  
WILLIAM FERDINAND EBERZ, B.S., California Institute.  
EMORY LEON ELLIS, B.S. and M.S., California Institute.  
MELVIN EARNEST GAINER, B.S., California Institute; M.S., University of Pittsburgh.  
EARL S. HILL, B.S., Oregon State Agricultural College; M.S., California Institute.  
WALTER HARRISON JORDAN, B.A. and M.S., University of Oklahoma.  
LAWRENCE EDWARD KINSLER, B.S., California Institute.  
IRVING PARKHURST KRICK, A.B., University of California; M.S., California Institute.  
YUN-PU LIU, B.S., University of Amoy, China; M.A., University of Southern California.  
NORTON BARTLETT MOORE, A.B., University of California; M.S., Purdue University.  
ALBERT EDWARD MYERS, B.S., California Institute.  
JOHN READ, B.S., London University.  
HARINGTON MOLESWORTH ANTHONY RICE, B.A., University of British Columbia.  
BRUCE HORNBROOK SAGE, B.S., New Mexico College of Agriculture and Mechanical Arts; M.S., California Institute.  
MARSTON CLEAVES SARGENT, A.B., Harvard University.  
ERNEST EDWIN SECHLER, B.S. and M.S. (in ME and AE), California Institute.  
HAMPTON SMITH, B.S., California Institute.  
CARSTEN CONOVER STEFFENS, A.B., Syracuse University.  
ROBERT INGERSOLL STIRTON, B.S., California Institute.  
THOMAS PRENCE THAYER, B.A., University of Oregon; M.A., Northwestern University.  
SAMUEL STEWART WEST, B.S. and M.S., California Institute.  
OLIN CHADDOCK WILSON, JR., A.B., University of California.  
GEORGE FRIEDRICH WISLICENUS, M.E., State Institute of Technology, Wurzburg, Germany; M.S., California Institute.

## Master of Science in Science

### PHYSICS

- DAVID FULMER BENDER, B.S., California Institute.  
EUGENE MITTELL BRUNNER, B.S., California Institute.  
CARL F. J. OVERHAGE, B.S., California Institute.

### MATHEMATICS

- WILLIAM ALVIN MERSMAN, B.S., California Institute.

### CHEMISTRY

- RUSSELL NIMTZ DOESCHER, B.S., California Institute.  
RUBIN HAROLD FRIEMAN, B.S., California Institute.  
EDWIN RUSSELL KENNEDY, B.S., California Institute.  
FRANKLIN FALLER OFFNER, B.Chem., Cornell University.

### CHEMICAL ENGINEERING

- ✓DUNCAN LEVERICH HOOPER, B.S., Yale University.  
✓JAN GERARD SCHAAFSMA, B.S., California Institute.

### GEOLOGY AND PALEONTOLOGY

- ✓WILLIAM DONALD CHAWNER, A.B., Occidental College.  
✓CHARLTON DOWS COOKSEY, B.S., Yale University.  
✓DUNCAN ANDERSON MCNAUGHTON, A.B., University of Southern California.

## Master of Science in Engineering

### ELECTRICAL ENGINEERING

- ✓DAVID ERVING COOK, B.S., Duke University.  
✓EDGAR LAROE KANOUSE, B.S., Oklahoma University.  
ALEXANDER FELLER LIBBY, B.S., California Institute.

- ✓ ADIN ERNEST MATHEWS, B.S., University of Southern California.  
 ✓ JAMES WILSON MCRAE, B.A.Sc., University of British Columbia.  
 JOHN ROBINSON PIERCE, B.S., California Institute.  
 LOUIS ALBERT PIPES, B.S., California Institute.  
 ✓ GEORGE FOSTER RUCKER, B.S., Southern Methodist University.  
 ALVIN JOSEPH SMITH, B.S., California Institute.  
 RALPH CLARENCE WEBER, B.S., California Institute.  
 MOSES B. WIDESS, B.S., California Institute.  
 HALLEY WOLFE, B.S., California Institute.

#### MECHANICAL ENGINEERING

- ✓ WILLIAM BOLLAY, B.S., Northwestern University.  
 MADISON THENTON DAVIS, III, B.S., California Institute.  
 ROBERT DAWSON FLETCHER, B.S., California Institute.  
 JAMES STANLEY JOHNSON, B.S., California Institute.  
 JAMES EVERETT LIPP, B.S., California Institute.  
 ERNEST RAY LOCKHART, B.S., California Institute.  
 ✓ ROBERT GILES PITTS, B.S., Alabama Polytechnic Institute.  
 NIKOLAI NIKEOLAEVICH SKAREDOFF, B.S., California Institute.  
 ✓ RICHARD ERVIN SLAUGHTER, B.S., Southern Methodist University.  
 ✓ ROLAND JAMES WHITE, B.S., University of California.  
 ✓ KENNETH ALONZO WILLARD, B.S., Northwestern University.  
 ✓ CARLOS CLAUDE WOOD, A.B., College of the Pacific.

#### CIVIL ENGINEERING

- RALPH EDWARD BYRNE, JR., B.S., California Institute.  
 ✓ NEPHI ALBERT CHRISTENSEN, B.S., Brigham Young University.  
 TRENT RAYSBOOK DAMES, B.S., California Institute.  
 ✓ GEORGE WILLIAM HOUSNER, B.Sc., University of Michigan.  
 SAMUEL YORKS JOHNSON, B.S., California Institute.  
 WILLIAM WALLACE MOORE, B.S., California Institute.  
 GEORGE HENRY PICKETT, B.S., California Institute.  
 ✓ ARZA FRANCIS PORTER, B.C.E., University of Santa Clara.  
 ✓ HOMER JUDKINS SCOTT, B.S., Iowa State College.

#### AERONAUTICAL ENGINEERING

- ✓ ALPHONSE MAURICE DESCAMPS, Mining and Metallurgical School, Mons, Belgium.  
 ✓ JULIAN RICHARD GOLDSTEIN, B.S., University of Rochester.  
 ✓ JOHN LESLIE MAGDEN, B.S., University of California; M.S., California Institute.  
 WILLIAM CURTIS ROCKEFELLER, B.S., California Institute.  
 ✓ LEONARD EUGENE ROOT, A.B., College of the Pacific; M.S., California Institute.  
 ✓ FRANCIS JOSEPH BRIDGET, Lieut. U.S.N., United States Naval Academy.  
 ✓ CARLTON BARMORE HUTCHINS, Lieut. (j.g.) U.S.N., United States Naval Academy.  
 ✓ CLAYTON CHARLES JEROME, Lieut. U.S.M.C., United States Naval Academy.  
 ✓ WILLIAM THEODORE RASSIEUR, Lieut. U.S.N., United States Naval Academy.  
 ✓ AURELIUS BARTLETT VOSSELLER, Lieut. U.S.N., United States Naval Academy.

#### METEOROLOGY

- ✓ ANTHONY EUGENE CURCIO, Lieut. U.S.A., United States Military Academy.  
 ✓ WILLIAM HOLMES WENSTROM, Lieut. U.S.A., United States Military Academy,  
     Army Signal School, M.S., Yale.

## Bachelor of Science

### SCIENCE

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|---|---|
| ROBERT DEVORE BOCHE<br>ALEXANDER CRANE CHARTERS, JR.<br>*FRANCIS HETTINGER CLAUSER<br>*MILTON URE CLAUSER<br>✓DONALD LEROY CLEVELAND<br>ROBERT ALEXANDER DIETRICH<br>*EDWARD BUSHNELL DOLL<br>WILLIS RAY DONAHUE, JR.<br>WILHELM SYDOW EVERETT<br>ROBERT CARLEN FELT<br>GARFORD GAILORD GORDON<br>*HOWARD EAST GULICK<br>LAWRENCE HALLANGER<br>ROBERT A. HOWARD<br>JACK FINLAY JUDSON | FRED KURATA<br>†ELVIN BERNARD LIEN<br>GEORGE HEINEMAN MARMONT<br>H. DAVID MICHENER<br>RALPH ARTHUR NAYLOR<br>DENNIS ARTHUR NEWCOMBE<br>*EDWIN WOOLMAN PAXSON<br>JAMES CROXTON RADFORD<br>CHARLES LOUIS SCHNEIDER<br>*†ROBERT PHILLIP SHARP<br>†JOHN ELLIOTT SHERBORNE<br>DAVIS AYRES SKINNER<br>✓ALVERDO EARNEST THOMPSON<br>†GLEN EVERETT WOODWARD<br>†FRANCIS WILLIAM WYATT |
|---|---|

\* 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

### ENGINEERING

ROBERT CARRON ANDERSON	GILBERT DONALD McCANN, JR.
HORACE WELCOME BABCOCK	FRANKLIN JAMES MCCLAIN
WILLIAM CANVIN BIRDSEY	WILLIAM CLYDE MCFADDEN
ROBERT OWEN BOYKIN, JR.	GUY OSCAR MILLER
ROBERT BROWN	MORTON ESTES MOORE
JAMES RICHARD CAMPBELL	LEE PIERCE MORRIS
MILFORD CARLSON CHILDERS	†BRYANT ELMER MYERS
SOL COGEN	CHARLES VERNON NEWTON
EDWIN JOHN CORE	GARTH FANCHER NICOLSON
JOHN TAYLOR CORTELYOU	HUGH MICHAEL O'NEIL
HERBERT ORVILLE COX	RICHARD TUDOR PARKER
†CARROLL CARPENTER CRAIG	WARREN LOMAX PATTON
*RICHARD STANLEY CRUTCHFIELD	†*JOHN FREDERICK PEARNE
PAUL HOWARD DANE	†EVERETT HARRY PIER
JAMES DONALD DAVIS	PAUL CLARK ROBERTS
JACK MAXWELL DESMOND	FREDERICK CHARLES ROEDING
ROLAND HERMAN ESCHERICH	JOHN ALBERT ROMOLI
Lewis Fort Etter	*†DONALD R. ROOKE
†JAMES NATHANIEL GREGORY	FRANK AUGUSTUS SCHAAK, JR.
†JOSEPH WILBUR GRIMES	†J. ROBERT SCHRECK
JOHN DANIEL HARSHBERGER	LOUIS PERRY SEXTON
RAY WATT HASKINS	ORIN HENDERSON SHOEMAKER, JR.
FRANCIS FREDERICK HEBEL	EDWARD ERNEST SIMMONS, JR.
ALBERT HEINRICH, JR.	LEON SLAVIN
RUDOLPH GEORGE HOLMAN	DARRELL HAYES SLUDER
HAROLD THOMAS HOLTON	†GEORGE SIDNEY SMITH
ERNEST RUSSELL HOWARD	ARTHUR LOUIS STEVENSON
WALTER LAVERN HOWLAND	ROBERT CROFT SUNDERLAND
RUDOLF VON HOININGEN HUENE	ALFRED IVAN SWITZER
WILLIS FEIGHAN JAYNES	FRANCIS GALLATIN TRACY, JR.
NORMAN STANLEY JOHNSON	RAYMOND WILLIAM TRAYNOR
*PAUL LOUIS KARTZKE	NICK THOMAS UGRIN
RAYMOND EDWARD KIDD	GEORGE WILLIAM VAN OSDOL
PAUL HOYT LEDYARD	NICO VAN WINGEN
JOHN ROBERT LITTLE	GLENN WAKELIN WEAVER
DAVID WALLACE LUTES	EDGAR JAMES WHEELER
†DAN REINERT MATHEWSON	CHARLES EDWARD WHITE
	WILLIAM WAYNE WILSON

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

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## 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.*