



1976-06

# Naval Postgraduate School Graduation Exercises / Class of June 1976

Naval Postgraduate School (U.S.)

Monterey, California. Naval Postgraduate School

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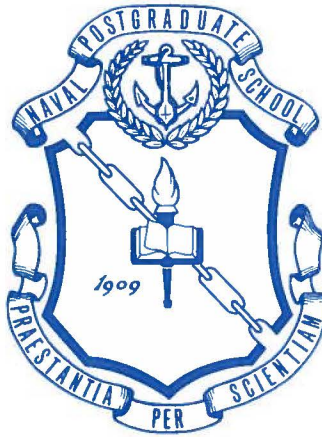
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NAVAL POSTGRADUATE SCHOOL

MONTEREY, CALIFORNIA

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# GRADUATION EXERCISES

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FRIDAY AFTERNOON

18 JUNE 1976

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# the program

## PROCESSIONAL

Professor ALFRED W.M. COOPER ..... Grand Marshal  
Professor CARROLL O. WILDE ..... Marshal  
Professor JAMES M. FREMGEN ..... Marshal  
Lieutenant Colonel RUSSELL E. JAMISON, U.S. Marine Corps ..... Marshal

## NATIONAL ANTHEM

## INVOCATION

Commander JOHN J. GLYNN, CHC, U.S. Navy

## INTRODUCTION OF SPEAKER

Rear Admiral ISHAM LINDER, U.S. Navy

## ADDRESS TO GRADUATES

Honorable JOSEPH T. McCULLEN, Jr.  
Assistant Secretary of the Navy  
(Manpower and Reserve Affairs)

## PRESENTATION OF AWARDS

Naval Postgraduate School Foundation Special Scholarship Awards  
Rear Admiral John Jay Schiefflin Award in Excellence in Teaching  
Navy League of Monterey Award  
Admiral William Adger Moffett Award  
W. Randolph Church Award  
Mewborn Student Research Award  
Captain Woelfel Award  
Naval Ship Systems Command Award  
Naval Electronics Systems Command Award

## PRESENTATION OF CANDIDATES BY DEPARTMENT CHAIRMEN

## ANNOUNCEMENT OF DEGREES

Rear Admiral ISHAM LINDER, U.S. Navy  
Provost JACK R. BORSTING

## BENEDICTION

Commander JOHN J. GLYNN, CHC, U.S. Navy

## RECESSIONAL

## platform party

### FIRST ROW (left to right)

Commander John J. Glynn  
CHC, U.S. Navy  
Chaplain, Naval Postgraduate School

Mrs. C. Mark Thomas  
Naval Postgraduate School Foundation

Captain J.C. Woelfel  
U.S. Navy (Retired)

Provost Jack R. Borsting  
Provost, Naval Postgraduate School

Rear Admiral Isham Linder, U.S. Navy  
Superintendent, Naval Postgraduate School

Honorable Joseph T. McCullen, Jr.  
Assistant Secretary of the Navy  
(Manpower and Reserve Affairs)

Major General Edward J. Miller  
United States Marine Corps

Commander Richard J. Collins  
U.S. Coast Guard

Mr. John A. Clancy  
President, Monterey Peninsula  
Council of the Navy League

Captain Joseph M. Barron, U.S. Navy  
Director of Programs, Naval  
Postgraduate School

### SECOND ROW

Professor Uno R. Kodres  
Department of Computer Science

Professor David R. Schrady  
Department of Operations Research  
and Administrative Sciences

Professor Dale F. Leipper  
Department of Oceanography

Professor Paul J. Marto  
Department of Mechanical Engineering

Professor Donald E. Kirk  
Department of Electrical Engineering

Professor Richard W. Bell  
Department of Aeronautics

Professor K.E. Woehler  
Department of Physics and Chemistry

## awards

### NAVY LEAGUE OF MONTEREY AWARD for ACADEMIC ACHIEVEMENT

Lieutenant Commander JOHN F. ANDERSON, U.S. Navy

### ADMIRAL WILLIAM ADGER MOFFETT AWARD

\*Lieutenant Commander E. FENTON CAREY, JR., U.S. Navy

### W. RANDOLPH CHURCH AWARD

\*Captain JACK B. GAFFORD, U.S. Army

### MEWBORN STUDENT RESEARCH AWARD

Lieutenant Commander STEVEN R. COHEN, U.S. Navy

### CAPTAIN WOELFEL AWARD

Lieutenant Commander JAMES R. BUCKINGHAM, U.S. Navy

### NAVAL SEA SYSTEMS AWARD in NAVAL ENGINEERING

Commander PAULO ARRUDA RAPOSO, Brazilian Navy

### NAVAL ELECTRONICS SYSTEMS COMMAND AWARD for DISTINGUISHED ACADEMIC ACHIEVEMENT

Lieutenant BRYANT F. BOOTH, III, U.S. Navy

\*Awarded in absentia

## Naval Postgraduate School Department Chairmen

Professor **GEORGE J. HALTINER**  
Meteorology

Professor **DONALD E. KIRK**  
Electrical Engineering

Professor **LADIS D. KOVACH**  
Mathematics

Professor **DAVID R. SCHRADY**  
Operations Research and Administrative Sciences

Professor **BOYD F. HUFF**  
National Security Affairs

Professor **RICHARD W. BELL**  
Aeronautics

Professor **DALE F. LEIPPER**  
Oceanography

Professor **ALLEN E. FUHS**  
Mechanical Engineering

Professor **K.E. WOehler**  
Physics and Chemistry

Professor **UNO R. KODRES**  
Computer Science



## Naval Postgraduate School Curricular Officers

Lieutenant Commander **JOSEPH H. CYR, JR., U.S. Navy**  
Operations Research/Systems Analysis

Commander **LEO A. LUKENAS, U.S. Navy**  
Aeronautical Engineering

Commander **PETER S. RODER, U.S. Navy**  
Electronics and Communications

Commander **RAYMOND W. HINE, U.S. Navy**  
Weapons Engineering

Commander **ROBERT L. WARTERS, U.S. Navy**  
Naval Engineering

Commander **JERRY D. JARRELL, U.S. Navy**  
Environmental Sciences

Commander **JAMES T. FLEMING, U.S. Navy**  
Administrative Sciences

Commander **WINDOM L. ESTES, U.S. Navy**  
Computer Technology

Superintendent  
**ISHAM LINDER**  
Rear Admiral, United States Navy

Provost  
**JACK R. BORSTING**  
Doctor of Philosophy

Director of  
Programs  
**JOSEPH M. BARRON**  
Captain, United States Navy

Dean of Information  
and Policy Sciences  
**DAVID A. SCHRADY**  
Doctor of Philosophy

Director of  
Military Operations and Logistics  
**EDWARD E. RILEY**  
Captain, United States Navy

Dean of Science  
and Engineering  
**ROBERT R. FOSSUM**  
Doctor of Philosophy

## MISSION

"To conduct and direct advanced education of commissioned officers and to provide such other technical and professional instruction as may be prescribed to meet the needs of the Naval Service; and, in support of the foregoing, to foster and encourage a program of research in order to sustain academic excellence."

## THE NAVAL POSTGRADUATE SCHOOL

The Naval Postgraduate School had a modest beginning at the Naval Academy at Annapolis in 1909, at which time the first class of ten officers enrolled in the School of Marine Engineering. In 1912, the School was designated the Postgraduate Department of the Naval Academy, and the scope of its engineering curricula was broadened to include Ordnance, Naval Construction and Civil Engineering.

After a suspension of operations during World War I, the Postgraduate Department resumed operations in 1919; two years later it was officially designated the "Naval Postgraduate School." A further extension of its curricula and the growth of its enrollment took place in the years between the two World Wars.

In 1927, the General Line Course was started within the Postgraduate School to acquaint junior line officers with modern developments taking place in the Navy and to broaden their professional knowledge by means of integrated courses in naval science.

World War II caused an increase in enrollment in the Engineering curricula from about 125 to over 600 and a tremendous expansion of activity in contrast to the complete suspension of operations during World War I. After hostilities ceased in 1945, a program was initiated to relocate the Postgraduate School and improve its professional status. Between 1945 and 1948, legislation was passed establishing the School as a separate activity under its own Superintendent; creating the office of Academic Dean; granting the Superintendent the right to award Bachelor's, Master's and Doctor's degrees; authorizing the re-establishment at Monterey, California, and purchasing the Del Monte site. The move to Monterey was commenced in 1948 and completed in 1951.

In 1956, the Navy Management School was established as a component of the Postgraduate School. Its mission was to provide graduate education for Naval officers in the theories, philosophies and application of scientific methods of management specifically oriented to the Navy in order to advance efficiency and economy of operation afloat and ashore. In August 1960, the Management School curriculum was lengthened from a five to a ten-month course leading to a Master's degree for those who could meet the requirements for such a degree.

In 1958, the General Line School was redesignated as the General Line and Naval Science School and a Bachelor of Science curriculum was offered to meet the educational and career requirements of selected officers who did not have baccalaureate degrees. Further developments in the undergraduate program resulted in recognition of the need for a Bachelor of Arts curriculum, which was subsequently inaugurated in the General Line and Naval Science School in August 1961.

A major internal reorganization was approved by the Chief of Naval Personnel and became effective on 3 August 1962. The three component schools were consolidated into a single unified Postgraduate School, with academic operations under the direction of a Director of Programs (military) and a Dean of Programs (civilian). The reorganization in no way changed the curricula offered, but achieved unity of policy and gave emphasis to the educational programs required for the Navy.



## academic dress

The cap and gown and colorful hood so prominent in commencement ceremonies resemble to some extent articles of dress worn by church and university dignitaries in the Middle Ages. The cap and gown indicate that the wearer is a member of a university or college. The hood shows the degree the wearer holds.

The gown for the bachelor's degree has pointed sleeves and is designed to be worn closed. The master's gown has closed sleeves, square at the end, the arms coming through a slit at the elbow; it may be worn open or closed. The doctor's gown has bell-shaped sleeves and may be worn open or closed. Down the front the doctor's gown has a facing of velvet and three bars of the same material on each sleeve. The facing and bars may be either black or the color distinctive of the subject to which the degree pertains. The cap is worn for all degrees; the doctor may wear a golden tassel.

Hoods are normally black with a colorful lining rolled outward. Bachelor's hoods are three feet long, master's three and one half feet, and doctor's four feet.

For all academic purposes, including trimmings for the doctor's gown, edgings of hoods, and tassels of caps, the colors associated with the different subjects are as follows:

Agriculture .....	Maize	Library Science .....	Lemon
Arts, Letters, Humanities .....	White	Music .....	Pink
Business, Commerce .....	Drab	Pharmacy .....	Olive Green
Education .....	Light Blue	Philosophy .....	Dark Blue
Engineering .....	Orange	Physical Education .....	Sage Green
Forestry .....	Russet	Science .....	Golden Yellow
Home Economics .....	Maroon	Theology .....	Scarlet
Law .....	Purple	Veterinary Science .....	Gray

The silk or satin lining of the hood is the color or colors of the university or college which conferred the degree. Some have a slash or chevron of contrasting color. For example:

University Granting Degree	Lining	Slash or Chevron
University of Wisconsin .....	Bright Red	
University of Minnesota .....	Old Gold .....	Maroon
Yale University .....	Blue	
University of California .....	Gold .....	Yale Blue
University of Washington .....	Purple Above Gold	
University of Oregon .....	Lemon Yellow .....	Dark Green
New York University .....	Violet	
Stanford University .....	Cardinal	
Columbia University .....	Light Blue .....	White
University of Michigan .....	Maize .....	Blue
University of Texas .....	White Above Orange .....	Burnt Orange
Duke University .....	Royal Blue .....	White
Cornell University .....	Cardinal .....	Two White
Harvard University .....	Crimson	
Michigan State University .....	Green .....	White
Iowa State University .....	Gold Above Cardinal	
State University of Iowa .....	Old Gold	
Oregon State University .....	Burnt Orange	
Lewis and Clark College .....	Princeton Orange .....	Black, Orange
University of Denver .....	Cardinal .....	Gold

*The Naval Postgraduate School hood has a satin lining of dark blue with a gold chevron.*

## the graduates

*Those officers whose names are preceded by an \* are being given their degrees in absentia.*

### Bachelor of Science in Physics

LOPEZ, Joseph D., LCDR, USN

### Master of Science in Physics

BATES, George M., LCDR, USN

SCHWARTZ, Henry W., LCDR, USN

CALLAHAN, Daniel J., LT, USN

SHANNON, James O., LCDR, USN

DUBOIS, Dorse H., II, LCDR, USN

SHEWCHUK, Sydney A., CAPT,  
Canadian Forces

HALL, Howard R., LT, USN

SMITH, William H., LT, USN

JACOBSON, John F., LT, USN

TURNER, Ronald D., LT, USN

MARCELL, Frederick C., Jr., LT, USN

WILLIAMSON, Francis T., Jr., LCDR,  
USN

PARISH, Philip W., LCDR, USN

PLETT, John R., LT, USN

WILLIAMS, Pharis E., LT, USN

PRICE, Joseph M., LCDR, USN

### Master of Science in Engineering Acoustics

DONNELLY, John J., ENS, USN

### Master of Science in Applied Science

DAMPIER, Craig R., LT, USN

### Master of Science in Aeronautical Engineering

DAVIS, Thomas J., LT, USN

ROBBINS, Edward F., LT, USN

DODGE, Frederick J., LT, USN

THOMPSON, GARY R., LT, USN

EZZARD, Henry S., Jr., ENS, USN

VELTMAN, Richard J., LT, USN

PAIGE, Gordon C., LCDR, USN

### Master of Science in Electrical Engineering

ANG VONG, Mongkol, Cambodia  
ARNESON, Dennis C., LT, USN  
BOOTH, Bryant F., III, LT, USN  
CARMEAN, Wilson L., LT, USN  
CARNEY, James M., LT, USN  
CASSIDY, Richard M., Jr., LT, USN  
COLYER, Thomas J., LCDR, USN  
\*EJAZ, Arif, LT, Pakistan Navy  
HICKEY, William A., III, LT, USN  
MACE, Frederick E., Jr., LT, USN  
McCORMICK, Dennis C., LT, USN  
PARKER, Gary B., LT, USN  
PARSONS, Hugh P., LT, USN  
PFENNIG, Kurt A.R., CDR, Federal German Navy  
POLLACK, Michael, A., LT, USNR  
PURAWIDJAJA, Djakaria, LTCOL, Indonesian Air Force  
SHUFF, Allen R., LT, USN  
STAMPS, David W., LCDR, USN  
SUPARMAN, Achmad I., LTCOL, Indonesian Air Force  
THOMPSON, Jerry D., LT, USN  
VIET, Duong Tuan, Vietnam  
VINES, Larry P., LT, USN  
WIEDEMANN, Hans-Joachim, LCDR, Federal German Navy  
WILSON, Charles H., LT, USN  
XEFTERIS, Constantine L., LT, USN

### Master of Science in Mechanical Engineering

BUCKINGHAM, James R., LCDR, USN  
COLLINS, Neil J., LT, USN  
CORLEY, Robert D., ENS, USN  
FORTIK, Donald F., LT, USN  
GONGAWARE, William R., LT, USN  
LUEBKE, William H., ENS, USN  
RAPOSO, Paulo Arruda, CDR, Brazilian Navy

### Master of Science in Oceanography

NELSON, Craig S., LT, NOAA  
\*ZUBERBUHLER, William J., LCDR, USN

### Master of Science in Operations Research

LEE, Yin Chu, COL, Republic of China Army  
LUKASCZYK, Norbert, LCDR, Federal German Navy  
PI, Yu-Kung, LTCOL, Republic of China Army  
WICK, Daniel B., ENS, USN

### Master of Science in Management

ACKER, Robert M., Jr., LT, USCG  
EIRICH, Donald G., MAJOR, USMC  
HONBARRIER, Harold L., Jr., MAJOR, USMC  
SULLIVAN, Robert J., MAJOR, USMC  
WALKER, John S., MAJOR, USMC  
ANDERSON, John F., LCDR, USN  
BERKEBILE, Donald F., LCDR, USN  
BUCKINGHAM, James R., LCDR, USN  
\*BUTLER, Paul K., LCDR, USN  
\*COOPER, Raiford W., LT, USN  
COSTON, Vernie R., LCDR, USN  
CRUMBLEY, Don C., LCDR, USN  
DEAN, Hilbert D., LCDR, USN  
DEVINS, Gerald L., CDR, USN  
DUNY, Marshall S., LT, USN  
GAGEN, Robert E., LCDR, USN  
GALLITZ, Ronald J., LT, USN  
GAUDI, Robert D., LT, USN  
GRAY, Cameron R., LCDR, USN  
GROVE, William E., LT, USN  
HANSON, Maurice D., LCDR, USN  
\*HERNANDEZ, Edward S., Jr., LCDR, USN  
HOGAN, Brian T., LCDR, USN  
JACKSON, Jeffrey Q., LCDR, Canadian Forces  
JACKSON, Bruce L., LCDR, USN  
JOHNSON, Wayne E., LCDR, USN  
JORDAN, Robert R., LCDR, USN  
KIGER, Charles R., LCDR, USN  
McCARTHY, Justin D., LT, USN  
METZGER, William J., LCDR, USN  
MONTEITH, Gary H., LCDR, USN  
\*MOODY, William B.B., LCDR, USN  
MOZGALA, David P., LT, USN  
NYENHUIS, Keith E., LCDR, USN  
\*OLDEN, Irvin L., LCDR, USN  
\*PERRY, William K., Jr., LT, USN  
QUINN, John T., LCDR, USN  
SELGELID, Larry C., CDR, USN  
TRUESDELL, William C., Jr., LCDR, USN  
\*WELBORN, James H., LCDR, USN

### Master of Science in Computer Systems Management

BOYLAN, Harold G., Jr., LT, USN  
DENSON, Dwight E., LT, USN  
FAHSL, John J., LCDR, USN  
GONZALEZ, Rene E., Jr., LCDR, USN  
HEIM, Robert J., LT, USN  
HINSON, Kenneth E., LT, USN  
KAROSICH, James C., LCDR, USN  
KORRELL, Harry J.F., Jr., CDR, USN  
LOVER, Kevin F., LT, USN  
MELLARD, Charles W., Jr., LT, USN  
\*PAIGE, Kathleen K., LT, USN  
\*PATTERSON, Shonnie J., LT, USN



### Master of Science in Computer Systems Management (continued)

THOMPSON, Donald R., LCDR, USNR    WICKER, Charles L., LCDR,  
TING, Shao Chung, MAJOR,                      USN  
Republic of China Army

### Master of Science in Computer Science

CALLISON, Kelly S., LT, USCG	DOCKHORN, Heinz-Dieter, LCDR, Federal German Navy
EMERY, Harvey W., Jr., CAPT, USMC	KARNS, Larry N., LT, USN
HOWARD, John E., CAPT, USMC	KIRCHGAESSNER, Michael, LCDR, Federal German Navy
KOLLAY, Daniel P., CAPT, USMC	KREUTZER, Kenneth L., LT, USN
NESSLAGE, Roger L., 1ST LT, USMC	MAY, Albert L., LT, USN
BAETZ, Lloyd N., CAPT, Canadian Forces	NELSON, States L., LT, USN
BISGROVE, Michael E., LT, USN	SEYHAN, Celal R., LTJG, Turkish Navy
CALLAHAN, Patrick A., LCDR, USN	WILLIAMS, Arrena S., LT, USN
CROWLEY, John J., Jr., LT, USN	

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### Aeronautical Engineer

GILL, James M., LCDR, USN

### Electrical Engineer

AMINELAHI, Hooshang, CDR, Imperial Iranian Navy	MANCINI, Anthony J., LT, USN
BITTENCOURT, Raul P., LCDR, Brazilian Navy	SHARON, Ram, LTJG, Israeli Navy
	UHRIN, John J., III, LT, USN

### Mechanical Engineer

COLLINS, Neil J., LT, USN

### Doctor of Philosophy

COHEN, Steven R., LCDR, USN    HOLMES, Stacy V., LCDR, USN

