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1977-06

# Naval Postgraduate School Graduation Exercises / Class of June 1977

Naval Postgraduate School (U.S.)

Monterey, California. Naval Postgraduate School

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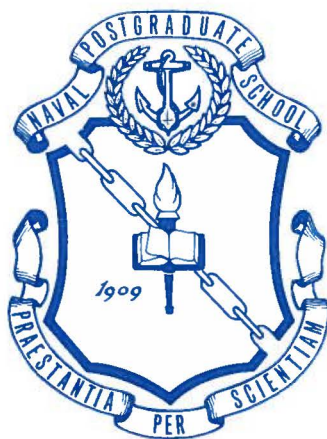


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NAVAL POSTGRADUATE SCHOOL

MONTEREY, CALIFORNIA

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# GRADUATION EXERCISES

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FRIDAY AFTERNOON

17 JUNE 1977

AT THREE O'CLOCK

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LIBRARY,  
GRADUATE SCHOOL  
SANTA BARBARA, CALIF. 93940  
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

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 program

## PROCESSIONAL

Professor ALFRED W.M. COOPER ..... Grand Marshal  
Professor RUSSEL H. STOLFI ..... Marshal  
Professor CRAIG COMSTOCK ..... Marshal  
Lieutenant Colonel NEIL P. MILLER, U.S. Marine Corps ..... Marshal

## NATIONAL ANTHEM

## INVOCATION

Commander JOHN H. KaelBERER, CHC, U.S. Navy

## INTRODUCTION OF SPEAKER

Rear Admiral ISHAM LINDER, U.S. Navy

## ADDRESS TO GRADUATES

Brigadier General EDWARD J. MEGARR, U.S. Marine Corps  
Commanding General, Force Troops, Pacific

## 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 Sea Systems Command Award in Naval Engineering  
Naval Sea Systems Command Award in Weapons Engineering  
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 H. KaelBERER, CHC, U.S. Navy

## RECESSIONAL





## platform party

### FIRST ROW (left to right)

Commander J.H. Kaelberer  
CHC, U.S. Navy  
Chaplain, Naval Postgraduate School

Mr. Thomas F. Dixon  
American Institute of Aeronautics and Astronautics

Mrs. Jane Herbst  
Naval Postgraduate School Foundation

Colonel Melvin Riggert  
United States Air Force

Provost Jack R. Borsting  
Provost, Naval Postgraduate School

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

Brigadier General Edward J. Megarr  
U.S. Marine Corps  
Commanding General, Force Troops, Pacific

Major General Robert A. Kirwan  
United States Army

Captain Fred W. Folger  
United States Coast Guard

Mr. Donald M. Layton  
President, Monterey Peninsula Council  
of the Navy League

Captain John C. Woelfel  
U.S. Navy (Ret)

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

### SECOND ROW

Professor Carl R. Jones  
Department of Administrative Sciences

Professor Gordon R. Bradley  
Department of Computer Science

Professor K.E. Woehler  
Department of Physics and Chemistry

Professor Dale F. Leipper  
Department of Oceanography

Professor George J. Haltiner  
Department of Meteorology

Professor Michael G. Sovereign  
Department of Operations Research

Professor Allen E. Fuhs  
Department of Mechanical Engineering

Professor Richard W. Bell  
Department of Aeronautics

Professor Donald E. Kirk  
Department of Electrical Engineering

Professor P.J. Parker  
Department of National Security Affairs

## awards

### NAVY LEAGUE OF MONTEREY AWARD for ACADEMIC ACHIEVEMENT

Lieutenant Commander JOHN S. BEACHY, U.S. Navy

### ADMIRAL WILLIAM ADGER MOFFETT AWARD

Lieutenant Commander DONALD L. FINCH, U.S. Navy

### W. RANDOLPH CHURCH AWARD

Lieutenant Commander JOSEPH A. STRADA, U.S. Navy

### MEWBORN STUDENT RESEARCH AWARD

\*Lieutenant RICHARD G. KELLY, U.S. Navy

### CAPTAIN WOELFEL AWARD

Lieutenant CHARLES R. ELLIN, U.S. Navy

### NAVAL SEA SYSTEMS COMMAND AWARD in NAVAL ENGINEERING

Lieutenant BRUCE A. WILLIAMS, U.S. Navy

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

\*Lieutenant Commander SEABORN M. McCRORY III, U.S. Navy

### NAVAL SEA SYSTEMS COMMAND AWARD for WEAPONS SYSTEMS ENGINEERING EXCELLENCE

\*Lieutenant Commander JAMES S. POLK, U.S. Navy

\*Awarded in absentia

## NAVAL POSTGRADUATE SCHOOL DEPARTMENT CHAIRMEN

Professor GEORGE J. HALTINER  
Meteorology

Professor DONALD E. KIRK  
Electrical Engineering

Professor CARROLL O. WILDE  
Mathematics

Professor MICHAEL G. SOVEREIGN  
Operations Research

Professor PATRICK J. PARKER  
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

Commander CHARLES P. GIBFRIED, USN  
Computer Science

Professor CARL R. JONES  
Administrative Science

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## 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 CARLYSLE J. THOMAS, U.S. Navy  
Electronics and Communications

Commander EDWARD J. MAHON, 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

Commander THOMAS H. BARR, U.S. Navy  
Naval Intelligence

## the graduates

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

### BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

ANES, Adolfo E., LT, Venezuelan Navy

BLOSS, Hans A., LTJG, Federal German Navy

PEREIRA, Jose L., LCDR, Brazilian Navy

ROCHA, Ivano D., LCDR, Brazilian Navy

XUMSAENG, Yodchai, LT, Royal Thai Navy

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### MASTER OF ARTS IN NATIONAL SECURITY AFFAIRS

COE, Richard E., CAPT, USAF

\*EASTERLY, James C., CAPT, USAF

HELMS, David L., CAPT, USAF

MURRAY, Paul E., CPT, USA

WILLIAMS, George M., MAJ, USA

### MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

ROBINSON, James R., II, CAPT, USMC

WATTS, Kenneth D., CAPT, USMC

BALL, Robert H., LCDR, USN

FUENTEZ, Raymond M., LCDR, USN

FUJISAWA, Kunio, LT, Japanese Maritime Self Defense Force

HAMPSHIRE, Eddie W., LT, USN

O'BRYON, Raymond T., LT, USN

PATTON, James W., LT, USN

RENFREE, Peter R., LT, USN

RIEDEL, Rolf-Guenther, LCDR, Federal German Navy

SILALAH, Rondang M., MAJ, Indonesian Navy

VICK, Paul S., LT, USN

YAYASUWARYA, Shaka, LTCOL, Indonesian Air Force

### MASTER OF SCIENCE IN AERONAUTICAL ENGINEERING

\*OLSEN, Peter C., LT, USCG

YOUNG, Paul D., MAJ, USMC

BEAUDET, Carl A., LT, USN

CASKO, John D., LT, USN

\*CHICOINE, Rene J., LCDR, USN

EATON, George A., Jr., LCDR, USN

ENGLEHARDT, Cleveland D., LT, USN

FETZER, William W., Jr., LT, USN

HEARD, Chester A., LT, USN

KAIL, Karl A., IV, LT, USN

KRUMBHOLZ, Karl O., LT, USN

LANCASTER, Emmett J., II, LT, USN

MADY, Clemens J., Jr., LT, USN

MCINTYRE, Lewis F., LT, USN

RUSSELL, Robert W., LT, USN



### MASTER OF SCIENCE IN MECHANICAL ENGINEERING

DALEY, Michael J., LT, USN  
DURAO, Mario D., LT, Portuguese Navy  
ELLIN, Charles R., LT, USN  
KANAZAWA, Masaaki, LT, Japanese Maritime Self Defense Force  
POST, Richard A., LT, USN  
SAVORY, John R., LT, USN  
TANTRAKUL, Chaiyuth, LT, Royal Thai Navy  
TONEY, James H., LT, USN  
WILLIAMS, Bruce A., LT, USN

### MASTER OF SCIENCE IN APPLIED SCIENCE

GOESLING, William H., LCDR, USN

### MASTER OF SCIENCE IN OPERATIONS RESEARCH

BANIS, Felix G., II, CPT, USA  
DEWALD, Lee S., CPT, USA  
HINCHEY, John A., CAPT, USAF  
SIBRE, Charles E., LT, USCG  
ANDERSON, James R.  
\*LIPPERT, Keith W., LT, USN  
MOORE, Harry R., II, LT, USN

### MASTER OF SCIENCE IN METEOROLOGY

MACIAS, Valente, Jr., CAPT, USAF  
NICKLIN, Donald S., 1LT, USAF  
SHEWCHUK, John D., CAPT, USAF  
VAN ORMAN, Brian L., CAPT, USAF  
GODIN, Raymond H., LT, USNR  
LUBECK, Olaf M., LT, USNR  
PATTERSON, Wayne L., LT, USN

### MASTER OF SCIENCE IN METEOROLOGY AND OCEANOGRAPHY

BERRY, George H., LT, USN

### MASTER OF SCIENCE IN OCEANOGRAPHY

RANEY, Sharon D.

### MASTER OF SCIENCE IN PHYSICS

ANDERSON, Samuel K., LT, USN  
BEACHY, John S., LCDR, USN  
FUNK, William T., LT, USN  
HALLIDAY, William H., MAJ, Canadian Forces  
HOUK, William A., LT, USN  
KELLY, Patrick W., LT, USN  
\*POLK, James S., LCDR, USN  
\*SMITH, Gary L., LT, USN  
SONTHEIMER, Richard F., LT, USN

### MASTER OF SCIENCE IN COMPUTER SCIENCE

DALTON, Thomas R., CAPT, USMC  
FRYDRYCHOWICZ, James J., CAPT, USMC  
HOUSTON, Dan P., CAPT, USMC  
McCORD, Boyd S., CAPT, USMC  
MULLER, Richard J., MAJ, USMC  
RHOADS, Larry E., CAPT, USMC  
ROESCH, Robert W., Jr., CAPT, USMC  
McNEIL, Charles E., MAJ, USAF  
SIBRE, Charles E., LT, USCG  
BURKHEAD, Franklin, Jr., LCDR, USN  
CLOYES, Robert D., Jr., LCDR, USN  
CUZZOCREA, John L., LT, USN  
DOYLE, Patrick M., LT, USN  
FIEGL, Erik, LCDR, Federal German Navy  
GODLEY, John B., LCDR, USNR  
HOFFMANN, Heinz-Michael, LCDR, Federal German Navy  
KELLER, Joseph F., LT, USN  
METKARUNCHIT, Treepet, CAPT, Royal Thai Army  
ROBERTSON, Michael D., LT, USN  
THOMAS, Michael C., LT, USN

### MASTER OF SCIENCE IN COMPUTER SYSTEMS MANAGEMENT

KEENAN, John C., CPT, USA  
RHOADS, Thomas H., MAJ, USA  
WARLEY, Ronald R., CPT, USA  
ABOESENO, CAPT, Indonesian Army  
GAINEY, John M., III, LCDR, USN  
KIM, Jong Kil, MAJ, Korean Army  
MUSTAMAR, CAPT, Indonesian Air Force  
PARK, Kwan Chul, CPT, Korean Army

### MASTER OF SCIENCE IN MANAGEMENT

MATZKO, Dean H., MAJ, USMC  
PATROW, Renee, CAPT, USMC  
RIESZ, James R., LT, USCG  
SAMUELSON, Roy C., Jr., LT, USCG  
FOUNTAIN, David C., CPT, USA  
GOLDEN, Kim B., CPT, USA  
SHERWOOD, Richard W., CPT, USA  
ABU AL-SAMH, Rashad, CDR, Royal Saudi Arabian Naval Forces  
ANDERSON, Wayne H., LT, USN  
ARRAIZ, Silvio E., LCDR, Venezuelan Navy  
BRADLEY, Fred H., Jr., LT, USN  
BUCKNER, Ernest W., CDR, USN  
CAMP, Robert T., LT, USN  
CHANDLER, Thomas H., LCDR, USN  
CRANK, Harold L., LT, USN  
EDWARDS, Daniel D., LT, USN  
EARLY, Eugene  
ESHGHI, Alireza, CDR, Imperial Iranian Navy  
FETZER, William W., Jr., LT, USN  
FOOTE, Morris C., LCDR, USN  
GOESLING, William H., LCDR, USN



## MASTER OF SCIENCE IN MANAGEMENT (Continued)

GREEN, William T., LCDR, USN	MOSHER, Richard L., LCDR, USN
HOLLIS, Michael K., LT, USN	NUSANTORO, Priyadi, LCDR, Indonesian Navy
JONES, Rudolph, LT, USN	PRIGMORE, Marvin E., LCDR, USN
KIM, Pyong-U, CDR, Republic of Korea Navy	*RABOLD, Bernard L., Jr., LT, USN
KOEPP, Gary E., LCDR, USN	ROBINSON, Richard D., LCDR, USN
KRATTLI, Robert W., LT, USN	SANCHEZ, Domingo H., LCDR, USN
KRUSE, Harry R., LCDR, USN	SCHOTTLER, David A., LT, USN
LIU, Ke-Cheng, COL, Republic of China Marine Corps	STEIDLE, Robert E., CDR, USN
*MAGEE, Terry E., LT, USN	SUAREZ, Manuel, LCDR, Venezuelan Navy
*MATTHEWS, John C., LT, USN	TALUTIS, William R., LCDR, USN

### ELECTRICAL ENGINEER

BAR-YEHOSHUA, David, LT, Israeli Navy  
ELITAS, Kayhan S., LT, Turkish Navy  
SHACHAR, Moshe, LTJG, Israeli Navy

### AERONAUTICAL ENGINEER

KAIL, Karl A., IV, LT, USN

### MECHANICAL ENGINEER

DURAO, Mario D., LT, Portuguese Navy  
ELLIN, Charles R., LT, USN  
POST, Richard A., LT, USN  
SAVORY, John R., LT, USN  
TANTRAKUL, Chaiyuth, LT, Royal Thai Navy  
WILLIAMS, Bruce A., LT, USN

### DOCTOR OF ENGINEERING

\*BELL, Edison L., LT, USN

### DOCTOR OF PHILOSOPHY

\*CAMPBELL, David R., LCDR, USN  
SHUMAKER, Robert H., CAPT, USN  
TUPAZ, Jesus B., CDR, USN

## 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.*

