



1984-06

# Naval Postgraduate School Graduation Exercises / Class of June 1984

Naval Postgraduate School (U.S.)

Monterey, California. Naval Postgraduate School

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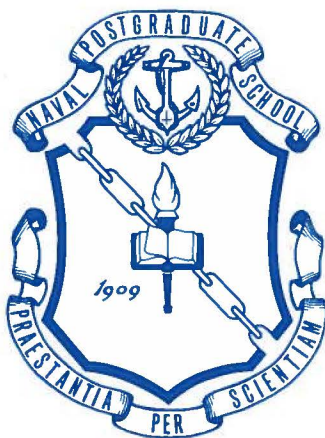
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NAVAL POSTGRADUATE SCHOOL

MONTEREY, CALIFORNIA

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# GRADUATION EXERCISES

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**Superintendent**  
**ROBERT H. SHUMAKER**  
Commodore, United States Navy

**Provost**  
**DAVID A. SCHRADY**  
Doctor of Philosophy

**Director of Programs**  
**MATTHEW F. PASZTALANIEC**  
Captain, United States Navy

**Dean of Information and Policy Sciences**  
**KNEALE T. MARSHALL**  
Doctor of Philosophy

**Dean of Science and Engineering**  
**JOHN N. DYER**  
Doctor of Philosophy

**Director of Military Operations**  
**JOHN E. BLEY, JR.**  
Captain, United States Navy

**Dean of Academic Administration**  
**GERALD H. LINDSEY**  
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 ROBERT E. NEWTON ..... Marshal  
Professor DONALD C. DANIEL ..... Marshal  
Lieutenant Colonel JOSEPH F. MULLANE, US Marine Corps ..... Marshal

## NATIONAL ANTHEM

## INVOCATION

### INTRODUCTION OF SPEAKER

Commodore ROBERT H. SHUMAKER, U.S. Navy

### ADDRESS TO GRADUATES

Vice Admiral LEE BAGGETT, JR., OP-095, Director of Naval Warfare

### PRESENTATION OF AWARDS

Distinguished Professor Rear Admiral John Jay Schieffelin Award  
for Excellence in Teaching  
Monterey Peninsula Council Navy League Award  
NAVSEASYSKOM Award in Naval Engineering  
William Randolph Church Award  
TRADOC Award in Operations Research  
The ADM Maffett Award  
NAVELEXSYSKOM Award in Electronics Engineering  
NAVSEASYSKOM Award for Weapons Systems Engineering Excellence  
Rear Admiral McClellan Award for Excellence in Administrative Science  
CNO Award for Academic Excellence in Organizational Development  
CNO Award for Academic Excellence in Manpower, Personnel  
and Training Analysis  
Naval Supply Corps Association Academic Excellence Award  
AFCEA Honor Award  
U.S. Naval Institute Award

### PRESENTATION OF CANDIDATES BY DEPARTMENT CHAIRMEN

### ANNOUNCEMENT OF DEGREES

Commodore ROBERT H. SHUMAKER, U.S. Navy  
Provost DAVID A. SCHRADY

## BENEDICTION

## RECESSIONAL

# platform party

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### FIRST ROW (left to right)

Commander Melvin J. Hary  
CHC, United States Navy

Colonel L.A. Wunderlich  
United States Marine Corps

Captain William Merlin  
United States Coast Guard

Colonel Anthony Johnson  
United States Army

Provost David A. Schrady  
Provost, Naval Postgraduate School

Commodore Robert H. Shumaker, USN  
Superintendent, Naval Postgraduate School

Vice Admiral Lee Baggett, Jr., USN  
OP-095, Director of Naval Warfare

Colonel Marshall C. Daniel, Jr.  
United States Air Force

The Honorable Clyde W. Roberson  
Mayor of Monterey

Captain Williard S. Houston, USN (Ret.)  
President, Monterey Peninsula  
Council of the Navy League

Captain Matthew F. Pasztalaniec  
U.S. Navy

Director of Programs, Naval Postgraduate School

### SECOND ROW

Professor Allen E. Fuhs  
Space Systems Academic  
Committee

Professor Gordon E. Schacher  
Department of Physics

Professor Russell Z. Elsberry  
Department of Meteorology

Professor Christopher N.K. Mooers  
Department of Oceanography

Professor David K. Hsiao  
Department of Computer Science

Professor James M. Fremgen  
Department of Administrative Sciences

Professor Gilbert T. Howard  
Department of Operations Research

Professor Donald M. Layton  
Department of Aeronautics

Professor Paul J. Marto  
Department of Mechanical Engineering

Professor Abraham Scheingold  
Department of Electrical Engineering

Professor Sherman W. Blandin  
Department of National Security Affairs



# awards

## **MONTEREY PENINSULA COUNCIL, NAVY LEAGUE AWARD for HIGHEST ACADEMIC ACHIEVEMENT**

Presented to the graduating USN, USMC or USCG officer who has maintained the highest academic grade average as a student at the Naval Postgraduate School.

Lieutenant Commander ORION P. KEIFER, U.S. Navy

## **NAVAL SEA SYSTEMS COMMAND AWARD in NAVAL ENGINEERING**

Presented in recognition of distinguished academic achievement in the Naval Engineering Program. The criteria for the award includes demonstrated academic excellence measured by marks attained, contents of thesis and demonstrated leadership potential in Naval Engineering.

Lieutenant Commander ORION P. KEIFER, U.S. Navy

## **WILLIAM RANDOLPH CHURCH AWARD**

Presented annually to an officer student for outstanding performance in mathematics. The criteria for selection includes evidence of initiative, scholarly attitude and mathematical maturity.

Captain ROBERT D. CLEMENCE, JR., U.S. Army

## **UNITED STATES ARMY TRAINING AND DOCTRINE COMMAND AWARD FOR ACADEMIC EXCELLENCE IN OPERATIONS RESEARCH**

Presented semiannually to a U.S. Army officer student in the Operations Analysis Program who possesses an outstanding academic record, including thesis and project work, and who demonstrates those qualities indicative of an outstanding military officer.

Captain CYRUS J. STANIEC, USA

## **ADMIRAL WILLIAM ADGER MOFFETT AWARD**

Presented annually to an officer student in the Aeronautical Engineering program on the basis of academic excellence, including thesis and career potential. Officer graduates from each of the four quarters preceding the June graduation were considered.

Captain DAVID B. CRIPPS, U.S. Army

## **NAVAL ELECTRONIC SYSTEMS COMMAND AWARD in ELECTRONICS ENGINEERING**

Presented semi-annually to a U.S. Navy officer student in recognition of distinguished academic achievement in the advanced Electronics Engineering program.

Lieutenant Commander DENNIS J. CARLSON, U.S. Navy

## **NAVAL SEA SYSTEMS COMMAND AWARD for WEAPON SYSTEMS ENGINEERING EXCELLENCE**

Presented in recognition of distinguished scholastic achievement in a Weapons Engineering field of study. Selection is based on marks attained, quality and applicability of thesis and demonstrated leadership potential in the field of Weapons Engineering.

Lieutenant Commander THOMAS R. ANDERSON, U.S. Navy

## **CAPTAIN JOHN C. WOELFEL AWARD**

Presented each June to the outstanding Naval Engineering program officer student on the basis of academic and leadership qualities and performance. Officers from the past September, December, March and June graduating classes were considered.

\*Lieutenant DWIGHT D. HENDERSON, JR., U.S. Navy

## **OCEANOGRAPHER of the NAVY AIR - OCEAN SCIENCE AWARD**

Presented to a U.S. Navy officer graduate of the Air-Ocean Science Program who has demonstrated outstanding performance and exhibited those qualities indicative of an outstanding military officer.

\*Lieutenant ALBERT R. HOCHEVAR, U.S. Navy

## **REAR ADMIRAL THOMAS R. McCLELLAN AWARD for EXCELLENCE in ADMINISTRATIVE SCIENCE**

Presented to a graduate of Administrative Science based upon academic performance, professional commitment, and leadership potential.

Captain J. SELWYN A. CLARK, Royal Australian Army

**THE CHIEF OF NAVAL OPERATIONS AWARD for ACADEMIC EXCELLENCE  
in ORGANIZATIONAL DEVELOPMENT**

This award is presented semi-annually for academic excellence to the most outstanding graduate of the Human Resources Management Curriculum.

**Commander GREGG G. GULLICKSON, U.S. Navy**

**THE CHIEF OF NAVAL OPERATIONS AWARD for ACADEMIC EXCELLENCE  
in MANPOWER, PERSONNEL and TRAINING ANALYSIS**

Awarded semiannually to a U.S. Navy or OP-01 sponsored civilian graduate of the Manpower/Personnel Training Analysis curriculum who has demonstrated outstanding academic performance, thesis quality, and leadership potential.

**Lieutenant Commander JEFFREY R. CRANE, U.S. Navy**

**NAVAL SUPPLY CORPS ASSOCIATION ACADEMIC EXCELLENCE AWARD**

Presented annually to an outstanding U.S. Navy Supply Corps officer in Administrative Science at the Naval Postgraduate School. This award is made on the basis of academic achievement, research excellence, contribution to the professional and civilian community, and faculty recommendation.

**Lieutenant Commander RANDLE D. BALES, U.S. Navy**  
**Lieutenant Commander KURT R. HUFF, U.S. Navy**

**ARMED FORCES COMMUNICATIONS and ELECTRONICS  
ASSOCIATION HONOR AWARD**

Presented to that officer graduate who has achieved academic excellence and best demonstrated professional qualities in one of the following programs: Electronics, Communications, Intelligence, Command and Control, or Computer Technology.

**Captain ROBERT J. WATSON, U.S. Marine Corps**

**UNITED STATES NAVAL INSTITUTE AWARD**

Presented each quarter to that recipient of a Master's Degree in National Security Affairs whose achievement has significantly advanced professional, literary or scientific knowledge in the naval or maritime services.

**Commander NORMAN J. CARLEY, U.S. Navy**

**NAVAL POSTGRADUATE SCHOOL DEPARTMENT CHAIRMEN**

**Professor Robert J. Renard**  
Meteorology

**Professor Abraham Sheingold (Acting)**  
Electrical Engineering

**Professor Gordon E. Latta**  
Mathematics

**Professor Alan R. Washburn**  
Operations Research

**Professor Sherman W. Blandin**  
National Security Affairs

**Professor Donald M. Layton (Acting)**  
Aeronautics

**Professor Christopher N.K. Mooers**  
Oceanography

**Professor Paul J. Marto**  
Mechanical Engineering

**Professor Gordon E. Schacher**  
Physics

**Professor David K. Hsiao**  
Computer Science

**Professor James M. Fremgen**  
(Acting) Administrative Science

**Professor R. Neagle Forrest**  
Antisubmarine Warfare

**Professor John M. Bouldry**  
Electronic Warfare

**Professor Michael G. Sovereign**  
Command, Control and Communications



**NAVAL POSTGRADUATE SCHOOL CURRICULAR OFFICERS**

**Lieutenant Commander PATRICK A. SANDOZ, U.S. Navy**  
Operations Analysis

**Commander WILLIAM M. SIEGEL, U.S. Navy**  
Aeronautical Engineering

**Commander ANDREW P. SOSNICKY, U.S. Navy**  
Electronics and Communications

**Commander HERBERT B. SHAW, III, U.S. Navy**  
Weapons Engineering

**Captain ALAN J. JOHNSON, U.S. Navy**  
Naval Engineering

**Commander CARL B. IHLI, JR., U.S. Navy**  
Air-Ocean Sciences

**Commander FRANK B. KELLER, U.S. Navy**  
Administrative Sciences

**Commander MICHAEL J. ANDERSON, U.S. Navy**  
Computer Technology

**Captain LAURENCE N. SCHUETZ, U.S. Navy**  
National Security Affairs/Intelligence

**Lieutenant Colonel JOHN T. MALOKAS, JR., U.S. Air Force**  
Command, Control and Communications

**Commander STEPHEN M. PRIBULA, U.S. Navy**  
Antisubmarine Warfare

*\*Awarded in absentia*



# the graduates

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

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

\*DULL, Robert H., MAJ, USA

## MASTER OF ARTS IN NATIONAL SECURITY AFFAIRS

\*BORING, John E., CAPT, USAF  
\*CARRELL, Robert E., CAPT, USAF  
CILEK, William H., CAPT, USAF  
DUCH, Charles J., CAPT, USAF  
\*EGAN, George R., CAPT, USAF  
FELIZ, Robert J., CAPT, USAF  
\*GAEBEL, Roger, CAPT, USAF  
MOORE, William D., Mr., USAF  
\*POWERS, Brian E., CAPT, USAF  
\*SCHWALBE, Stephen R., CAPT, USAF  
\*SLIGAR, Daniel J., Mr., USAF  
TYLER, Arthur Q., Mr., USAF  
WHITE, Karen H., CAPT, USAF  
\*BERCZEL, David J., CPT, USA  
COOK, David L., MAJ, USA  
\*COX, Stephen M., CPT, USA  
DINELLA, Harry D., MAJ, USA  
\*DUNN, Bernard J., CPT, USA  
FIRER, John B., CPT, USA  
\*GOTOWICKI, Stephen H., CPT, USA  
HOWELL, Robert N., Jr., LTCOL, USA

## MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

AVERILL, Warren P., CAPT, USMC  
THRASH, Gary D., CAPT, USMC  
AMRAPALA, Chachawarn, LT, Royal  
Thai Navy  
ANDERSON, Thomas R., LCDR, USN  
CARLSON, Dennis J., LCDR, USN  
CETEL, Alan J., LCDR, USN  
DE MIRANDA, Cesar T., CAPT,  
Brazilian Air Force

\*JOHNSON, Dennis L., CPT, USA  
\*KIMSEY, Robert M., CPT, USA  
MAY, Larry W., CPT, USA  
\*MIMS, Jason D., CPT, USA  
MITCHELL, Thomas B., III, CPT, USA  
\*MURAWSKY, Jan E., CPT, USA  
MURRAY, Robert A., III, MAJ, USA  
\*ODOM, Charles F., CPT, USA  
\*RILEY, Thomas R., CPT, USA  
\*SHADLE, Charles R., CPT, USA  
WILSON, John S., CPT, USA  
CARLEY, Norman J., CDR, USN  
COTTON, Lawrence S., LCDR, USN  
INBODY, Donald S., LT, USN  
MEISTER, Douglas C., LT, USN  
\*ORBANN, Carl T., LCDR, USN  
PARSON, Gary P., LT, USN  
TURRENTINE, Luanne A., LCDR, USN  
WALSH, Stephen J., LT, USN  
WILLIAMS, Russell L., LCDR, USN

FARWELL, Faris T., LT, USN  
HANSON, Christopher L., LT, USN  
JEAN, King W., CAPT, Canadian  
Forces  
JONES, Richard L., LT, USN  
KOPACZ, Anthony J., LCDR, USN  
KOVACEVICH, Gary D., LCDR, USN  
LAURVICK, Conrad A., LCDR, USN  
LOMBART, Kenneth G., LCDR, USN

## MASTER OF SCIENCE IN ELECTRICAL ENGINEERING (Cont.)

LYMAN, Randall T., LT, USN  
MANIKAS, Constantinos G., LT,  
Hellenic Navy  
MORAIS, Roger J., LT, USN

O'DWYER, John M., LT, USN  
SAKKAS, Charalambos I., LT,  
Hellenic Navy  
STOEHR, Dale E., LCDR, USN

## MASTER OF SCIENCE IN MECHANICAL ENGINEERING

BROWER, Steven K., LT, USN  
KEIFER, Orion P., LCDR, USN  
MARTINEZ, Benjamin, Jr., LT, USN  
MCGEE, William S., LT, USN  
NICKODEM, Peter W., LCDR, USN  
PULIDO, Ricardo O., LT, Colombian  
Navy

REDDIX, Mason C., Jr., LCDR, USN  
RENTZ, Thomas R., LT, USN  
STORM, Michael A., LT, USN  
UETZ, Kurt R., LT, USN  
WELCH, Mark S., LT, USN  
WHITE, Richard W., LT, USN

## MASTER OF SCIENCE IN AERONAUTICAL ENGINEERING

\*CORLEY, Farrell G., LCDR, USN  
\*CRAIG, Raymond P., LCDR, USN  
CRIPPS, David B., CPT, USA  
\*GRITTE, Brian R., LCDR, USN  
JEWETT, Charles E., LCDR, USN

MACY, Archer M., Jr., LT, USN  
\*MEELEY, William A., LCDR, USN  
MORROW, Joel S., LT, USN  
SHEEHY, Hugh F., LCDR, USN  
\*WELLER, Joseph D., LCDR, USN

## MASTER OF SCIENCE IN OPERATIONS RESEARCH

ESMANN, William J., MAJ, USMC  
ALEXANDER, Daniel R., CPT, USA  
BALDERMAN, Michael D., CPT, USA  
BROWN, David C., CPT, USA  
CLEMENCE, Robert D., Jr., CPT, USA  
FRISBIE, Robert P., CPT, USA  
GANDY, Thomas A., CPT, USA

\*HUGHES, James M., CPT, USA  
JOHNSON, Malcolm D., Jr.,  
CPT, USA  
\*MANZO, Joseph T., CPT, USA  
MARTIN, Ephraim, IV, CPT, USA  
STANIEC, Cyrus J., CPT, USA  
THOMAS, David A., CPT, USA

## MASTER OF SCIENCE IN MANAGEMENT

MECKEL, Robert J., CAPT, USMC  
RIGGIO, Joseph J., MAJ, USMC  
RUDGE, Harry G., MAJ, USMC  
FREITAS, Randall W., LT, USCG  
BIVENS, Nolen V., CPT, USA  
HILER, Roy G., CPT, USA  
AMOS, Kevin S., LT, USN  
BALES, Randle D., LCDR, USN  
\*BERTSCHE, Mark S., LT, USN  
BORZA, Michael J., LT, USN  
BROWN, Jerry J., LCDR, USN

BROYLES, Ned A., CDR, USNR  
BURNETT, Joseph L., LCDR, USN  
CHMIEL, Patricia A., LT, USN  
CLARK, J. Selwyn A., CAPT, Royal  
Australian Army  
COFFEEN, Robert C., LCDR, USN  
CRANE, Jeffrey R., LCDR, USN  
DERRICK, Jerry F., LCDR, USN  
FRANKLIN, Donald E., LT, USN  
GAGNER, Brenda M., LCDR, USN  
GORRIS, Frederick D., LCDR, USN



## MASTER OF SCIENCE IN MANAGEMENT (Continued)

GULLICKSON, Gregg G., CDR, USN  
HA Chul Soo, MAJ, Republic of  
Korea Army  
HAHNDORF, Fred R., LCDR, USN  
HERRING, David L., LCDR, USN  
HIGGINS, Roger J., LT, USN  
HOOPS, John R., LCDR, USN  
HUFF, Kurt R., LCDR, USN  
ILLIG, Christina F., LCDR, USN  
IRLAM, Ross E., LCDR, USN  
JATMIKO, Waluyo, MAJ, Republic  
of Indonesia Army  
LEE In Sik, LTCOL, Republic of  
Korea Marines  
\*LOWRY, Thomas M., LT, USNR  
MCANALLY, Nancy D., LCDR, USN  
MCGINTY, Louis L., LCDR, USN  
MCMAHON, Christine M., LT, USNR  
MELIDOSIAN, Vivian G., LT, USN  
MORAN, Raymond L., LCDR, USN  
NOEGROHO, Eddy, CDR, Republic  
of Indonesia Navy  
OSLUND, Dwayne A., LCDR, USN

## MASTER OF SCIENCE IN INFORMATION SYSTEMS

NAPOLIELLO, Michael F., CPT, USA  
BAE Seong S., CAPT, Republic of  
Korea Army  
FREW, Barry A., LT, USN

## MASTER OF SCIENCE IN COMPUTER SCIENCE

TEKAMPE, Robert C., CAPT, USMC  
WATSON, Robert J. CAPT, USMC  
FOX, F. Sutter, LCDR, USCG  
FROST, John R., LCDR, USCG  
RICHBOURG, Robert F., CPT, USA  
WEISHAR, Doyle, CPT, USA  
WOFFINDEN, Duard S., CPT, USA  
AYTACER, Engin, 1st LT, Turkish  
Air Force  
BAEK Kwang Soo, MAJ, Republic  
of Korea Army  
BUTLER, Dempsey III, LT, USN  
\*CARSON, T. Hill, LCDR, USN  
PARK Durk Kwan, MAJ, Republic  
of Korea Army  
ROSE, Charles V., Mr., Naval Air  
Rework Facility, North Island,  
San Diego, CA  
ROSMOND, James R., LCDR, USN  
SHERRY, Kevin J., LCDR, USN  
SHERMAN, Colleen, Ms., Defense  
Communications Agency,  
Washington, DC  
SILAS, Brian R., LT, USN  
SMITH, Stephen E., LT, USN  
SUEUR, Rhys C., LCDR, USN  
SULE, Michael F., CDR, USN  
SUMMERALL, Daniel B., LCDR, USN  
SWANDOJO, Joewono, LCDR, Re-  
public of Indonesia Navy  
\*TACKETT, Kevin J., LCDR, USN  
THOMAS, Michael G., LCDR, USN  
WALKER, Dale M., LCDR, USN  
WHITE, Carol A., LT, USN  
YACUS, George M., LCDR, USN

## MASTER OF SCIENCE IN COMPUTER SCIENCE (Continued)

MCGRATH, Thomas R., LCDR, USN  
METCALF, Sherman G., LT, USN  
MULDUR, Serdar, LT, Turkish Navy  
PANAGIARIAS, Vassilios, CDR,  
Hellenic Navy  
PERCINLER, Izzet, MAJ, Turkish Army  
RANSBOTHAM, James, LCDR, USN  
ROLLINS, Richard E., CDR, USN  
ROWE, Willis, LT, USN  
TOTOS Nicholas, CDR, Hellenic Navy

## MASTER OF SCIENCE IN METEOROLOGY AND OCEANOGRAPHY

KOSNIK, Mark E., LT, USN  
LAWSON, Robert A., LT, USN  
RAY SIN, Kent L., LCDR, USN  
SHOWALTER, Robert C., LCDR, USN  
SLEICHTER, William T., LCDR, USN

## MASTER OF SCIENCE IN METEOROLOGY

MCATEE, Michael D., CAPT, USAF  
WYSE, Neil R., CAPT, USAF

## MASTER OF SCIENCE IN PHYSICS

CHENOWETH, Emory L., LCDR, USN  
CUMMINGS, Harold H., Jr., LCDR,  
USN  
JOHNSON, Geoffrey D., LT, USN  
PETERSON, John S., LT, USN

## MASTER OF SCIENCE IN ENGINEERING SCIENCE

DEWES, William E., LT, USN  
\*HUGHES, Patrick W., LT, USN  
MARTZOUCOS, Vassilios, LT,  
Hellenic Navy

## MASTER OF SCIENCE IN SYSTEMS TECHNOLOGY SPACE SYSTEMS OPERATIONS

BEAVER, Robert J., LCDR, USN  
FARNSWORTH, Dale C., LT, USN  
MCGUINNESS, Thomas P., Jr.,  
LT, USN  
SOWERS, James R., LCDR, USN  
WHITNEY, Robert T., LT, USN  
WRIGHT, Robert P., LT, USN

## ELECTRICAL ENGINEER

DE MIRANDA, Cesar T., CAPT, Brazilian Air Force  
HANSON, Christopher L., LT, USN  
O'DWYER, John M., LT, USN

## MECHANICAL ENGINEER

MARTINEZ, Benjamin, Jr., LT, USN  
STORM, Michael A., LT, USN



## HISTORY OF THE SCHOOL

In 1909 the first Naval Postgraduate School, then called the Postgraduate Department of the U.S. Naval Academy, was established at Annapolis, Maryland. On June 9 that year ten students made up the class, three professors formed the faculty, and Marine Engineering was the only curriculum. When the first class graduated in 1911, Beekman Winthrop, Assistant Secretary of the Navy, said, "There will be some day a postgraduate course to call all the officers of the Navy together. This school is the beginning, and may be the one on which the Navy Department of the future may have to depend." As the school expanded over the next seven decades, his words have proved prophetic.

During World War I, the school closed, but classes resumed in 1919. Two years later the department was renamed the United States Naval Postgraduate School. In 1927, the General Line Course was established to acquaint junior line officers with modern developments within the Navy and broaden their professional knowledge for future command at sea.

World War II caused tremendous expansions of activities and a large increase in student enrollment. The school grew to meet the needs of the Navy, and more courses were added to the curriculum. After the 1945 armistice, the Navy began plans to move the school away from Annapolis and improve its professional status. Between 1945 and 1948, Congress established the school as a separate activity under its own superintendent, created the office of academic dean, granted the superintendent authority to award the bachelor's, master's and doctor's degrees and approved Monterey, California as the future home of the school.

After purchasing the former Hotel Del Monte and the surrounding acreage, the Navy officially established the school on the West Coast in 1951. Since moving to Monterey the postgraduate school has focused upon professional graduate education.

To meet this end, the Navy has made a strong commitment to quality postgraduate education of its officer corps — and for good reason. In addition to meeting the needs for near-term functional skills, this investment has served as a mechanism for sustaining the foundation of intellectual vigor in critical areas of expertise. Experience has proven that graduate level education is a fundamental constituent in the building of operational, technical, and managerial skills essential to maintaining institutional excellence in the face of dramatic change.

In support of national defense requirements, the Naval Postgraduate School graduates an average of 800 officers a year, and offers a variety of courses in science, management and engineering. In addition, its faculty members are dedicated to providing the highest quality education for their students — more than 1200 officers of all five U.S. services, 25 allied nations and U.S. government civilians.

## 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.*

