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Monterey, CA; Naval Postgraduate School

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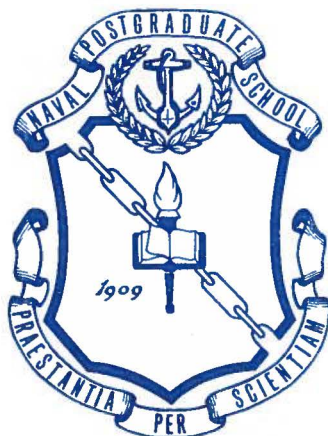


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U.S. NAVAL POSTGRADUATE SCHOOL

MONTEREY, CALIFORNIA

GRADUATION EXERCISES

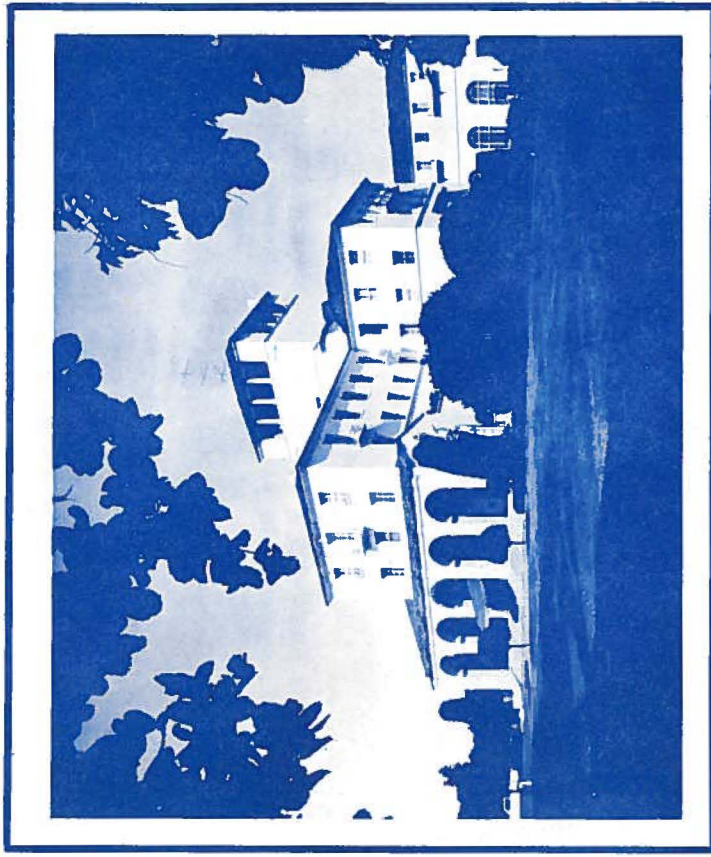
FRIDAY AFTERNOON

21 JUNE 1974

AT FOUR O'CLOCK

Ref.
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BY KNOX LI.
CAL POSTGRADUATE SCHOOL
MONTEREY, CALIFORNIA 93940



POSTAGE
PAID

Superintendent
MASON FREEMAN
Rear Admiral, United States Navy

Provost
JACK R. BORSTING
Doctor of Philosophy

Chief of Staff
EARL F. GODFREY
Captain, United States Navy

Director
of Programs
DONALD W. KILEY
Captain, United States Navy

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

Dean of Programs
W. F. KOEHLER
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 **CRAIG COMSTOCK** Marshal
Professor **CARROLL O. WILDE** Marshal
Lieutenant Colonel **RUSSEL E. JAMISON, U.S. Marine Corps** Marshal

NATIONAL ANTHEM

INVOCATION

Captain **JOSEPH E. RYAN, CHC, U.S. Navy**

INTRODUCTION OF SPEAKER

Rear Admiral **MASON FREEMAN, U.S. Navy**

ADDRESS TO GRADUATES

Honorable **J. WILLIAM MIDDENDORF, II**
Secretary of the Navy

PRESENTATION OF AWARDS

Naval Postgraduate School Foundation Special Scholarship Awards
Rear Admiral John Jay Schieffelin Award for Excellence in Teaching
Navy League of Monterey Award for Academic Achievement
Admiral William Adger Moffett Award
Professor W. Randolph Church Award
Mewborn Student Research Award
Commander Naval Electronic Systems Command Award

PRESENTATION OF CANDIDATES BY DEPARTMENT CHAIRMAN

ANNOUNCEMENT OF DEGREES

Rear Admiral **MASON FREEMAN, U.S. Navy**
Provost **JACK R. BORSTING**

BENEDICTION

Captain **JOSEPH E. RYAN, CHC U.S. Navy**

RECESSIONAL

platform party

FIRST ROW (left to right)

Captain Joseph E. Ryan, CHC,
U.S. Navy
Chaplain, Naval Postgraduate School

Captain C.F. DeWolf
United States Coast Guard

Major General Harry C. Olson
United States Marine Corps

Provost Jack R. Borsting
Provost, Naval Postgraduate School

Rear Admiral Mason Freeman,
U.S. Navy
Superintendent, Naval Postgraduate School

Honorable J. William Middendorf II
Secretary of the Navy

Major General Robert G. Gard
United States Army

Mr. Charles B. Kramer
Naval Postgraduate School Foundation

Mr. Joseph Thompson
Monterey Peninsula
Council of the Navy League

Captain Donald W. Kiley, U.S. Navy
Director of Programs,
Naval Postgraduate School

SECOND ROW

Professor Ladis D. Kovach
Department of Mathematics

Professor Louis V. Schmidt
Department of Aeronautics

Professor Otto Heinz
Department of Physics and Chemistry

Professor Warren C. Thompson
Department of Oceanography

Professor George J. Haltiner
Department of Meteorology

Professor Robert H. Nunn
Department of Mechanical Engineering

Professor Sydney R. Parker
Department of Electrical Engineering

Professor Gerald L. Barksdale
Computer Science Group

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

Professor Boyd F. Huff
Department of Government and Humanities

awards

NAVY LEAGUE OF MONTEREY AWARD for ACADEMIC ACHIEVEMENT

Lieutenant JOHN C. BITZBERGER, U.S. Navy

ADMIRAL WILLIAM ADGER MOFFETT AWARD

Commander MARLE D. HEWETT, U.S. Navy

PROFESSOR W. RANDOLPH CHURCH AWARD

Lieutenant KIRK E. EVANS, U.S. Navy
Lieutenant Commander KLAUS-DIETER KUCHLER, Federal German Navy

MEWBORN STUDENT RESEARCH AWARD

Lieutenant Commander KENNETH M. BROOKS, Sr., U.S. Navy

COMMANDER NAVAL ELECTRONIC SYSTEMS COMMAND AWARD

Lieutenant Commander PAUL D. FRAZER, U.S. Navy

CAPTAIN J.C. WOELFEL AWARD

*Lieutenant DAVID A. SMITH, Jr., U.S. Navy

NAVAL SHIP SYSTEMS COMMAND AWARD IN NAVAL ENGINEERING

*Lieutenant Commander MICHAEL G. SIMPSON, U.S. Navy

* awarded in absentia

Naval Postgraduate School Department Chairmen

Professor **GEORGE J. HALTNER**
Meteorology

Professor **SYDNEY R. PARKER**
Electrical Engineering

Professor **LADIS D. KOVACH**
Mathematics

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

Professor **BOYD F. HUFF**
Government and Humanities

Professor **RICHARD W. BELL**
Aeronautics

Professor **DALE F. LEIPPER**
Oceanography

Professor **ROBERT H. NUNN**
Mechanical Engineering

Professor **OTTO HEINZ**
Physics and Chemistry

Naval Postgraduate School Curricular Officers

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

Captain **DONALD W. MATHEWS, U.S. Navy**
Aeronautical Engineering

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

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

Captain **PHILIP F. CAROTHERS, JR., U.S. Navy**
Naval Engineering and Engineering Science

Commander **LEROY R. BECHELMAYR, U.S. Navy**
Environmental Sciences

Commander **WINDOM L. ESTES, U.S. Navy**
Administrative Science/Computer Science

Commander **DONALD T. FITZGERALD, U.S. Navy**
Baccalaureate and Naval Intelligence

the graduates

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

Bachelor of Arts with Major in Government (International Relations)

*CROSS, Stanley O., LCDR, USN	MITCHELL, Thomas A., LCDR, USN
CROSSEN, William J., LCDR, USN	MONTGOMERY, Robert A., LCDR, USN
DICKIE, Robert W., CWO3, USN	MOORE, Ronald C., LCDR, USN
DURNAN, Patrick A., LCDR, USN	MORRIS, James E., LCDR, USN
GENTRY, Ronald E., CWO2, USN	MORRIS, Phillip G., LT, USN
GLADSTON, Steele, LCDR, USN	SCHAPER, Darwin E., LCDR, USN
GOEWY, Lee E., CDR, USN	SHROEDER, Gerard R., CDR, USN
HATCH, Marilyn J., LT, USN	SMITH, Thomas N., LCDR, USN
HIGGINS, Edward P., LCDR, USN	STEWART, James L., LCDR, USNR
HUNSTON, Larry A., LTJG, USN	*TEXEIRA, Antone Jr., LT, USN
JENKINSON, William R., LCDR, USN	VALADE, Gerald R., LTJG, USN
LONG, Michael, D., LCDR, USN	WARDROBE, James E., CWO2, USN
MERCIER, William E., LCDR, USN	

Bachelor of Science with Major in Business Administration

BECKETT, John C., LT, USN	FRANKLIN, Norman G., LCDR, USN
BERTELSEN, Duane L., LTJG, USN	MILLER, Ivan W., LT, USN
BLACK, John F., Jr., LCDR, USN	RASMUSSEN, Kenneth H., LCDR, USN
BRYANT, Cordis C., LCDR, USN	WELLS, Paul D., LCDR, USN
ERICKSON, Douglas L., CDR, USN	

Bachelor of Science with Major in Operations Research

ALEGRIA, Carlos C., LCDR, Peruvian Navy	*LIANG, Yung, CDR, Chinese Navy
HONG, Bui Van, 1-LT, Republic of Vietnam Army	TAI, Nguyen Cong, 1-LT, Republic of Vietnam Army

Bachelor of Science with Major in Computer Science

BERDESKI, Phillip R., CWO2, USN	RIESS, William A., LCDR, USN
MATYAS, Carl E., LCDR, USN	WOOD, H. Francis, LCDR, USN
McMINN, John F., LT, USN	

Bachelor of Science with Major in Electrical Engineering

CARMI, Emmanuel, LCDR,
Israeli Navy

DONNELLY, Ambrose T., LCDR, USN

EBRO, Rene L., LCDR, Philippine
Navy

GRIGGS, Edward C., LTJG, USN

HAAN, Dale E., LCDR, USN

HEARN, George H., CWO2, USN

McPARTLIN, Raymond P., LT, USN

SEEGAR, Marion L., CWO3, USN

Bachelor of Science in Engineering Science

AVENSON, Jerome H., LTJG, USN

BARE, James C., LCDR, USN

FRANZ, David, LCDR, USN

MORDHORST, Rawson B., LCDR,
USN

MOSER, Carter H., CDR, USNR

PETERSON, Brent L., LCDR, USN

TUJAGUE, Ronald B., LT, USN

*WATERS, James L., Jr., LT, USN

WIGFALL, George H., Jr., LCDR,
USN

Bachelor of Science in Mechanical Engineering

GRABLE, Paul D., LT, USN

Bachelor of Science in Meteorology

NEIVA, Eugenio J.F., LT, Brazilian
Navy

*SINGER, Floyd J., LCDR, USNR

Bachelor of Science with Major in Oceanography

DA SILVA, Luiz C.F., LT, Brazilian Navy

Bachelor of Science in Physics

FALCON, Michael F., LCDR, USN

*MOORED, Allen W., LCDR, USN

STULTS, James D., LT, USN

Master of Science in Aeronautical Engineering

AANERUD, Kenneth D., LT, USN

BELL, James K., LT, USN

BETTINGER, Robert G., LT, USN

BITZBERGER, John C., LT, USN

DOWNES, Charles P., LCDR, USN

GAUTHIER, David P., LCDR, USN

JOHNSON, Robert F., LT, USN

KANE, John E., LT, USN

KELLEY, Michael B., LT, USN

LINNANDER, Robert J., LT, USN

Master of Science in Aeronautical Engineering (Continued)

MURRAY, Leslie G., LT, USN

O'BRIEN, John G., LCDR, USN

PHANEUF, Joseph T., LCDR, USN

POPE, David L., LT, USN

SOMERS, James W., ENS, USN

STURGES, James W., LT, USN

VANN, John L., LT, USN

VIDRINE, David M., LCDR, USN

ZERR, John J., LCDR, USN

Master of Science in Computer Science

JOHNSON, Ronald P., CAPT, USMC

KIRKHAM, James H., MAJ, USMC

MACFARLANE, David B., CAPT,
USMC

COULTER, Edward C., LT, USN

*HARRIS, Michael J., ENS, USN

HILZER, Ralph C., Jr., LCDR, USN

JANOV, Bernard, LT, USN

JOHNS, Vernon M., LT, USN

LARSON, Dale L., LCDR, USN

*LUKASCZYK, Norbert, LCDR,
Federal German Navy

PARKER, Daniel J., LT, USN

*PEASE, Andrew J., ENS, USN

*UNDERWOOD, Van Douglas,
LT, USN

WORTMANN, Eberhard O., LCDR,
Federal German Navy

Master of Science in Computer Systems Management

ANDERSON, Allan W., LCDR, USN

CARRUTHERS, David G., LCDR, USN

GOULD, George A., III, LCDR, USN

HAMMAN, Kenneth A.,
CDR, USN

HOA, Pham Phu, LTJG,
Vietnamese Navy

MALIK, Mohammad Afzal,
Pakistan Navy

*TIETZ, Robert H., LCDR, USNR

Master of Science in Management

McCARTHY, Thomas J., LCDR, USCG

WALTON, Richard W., LCDR, USCG

WELCH, Thomas A., LCDR, USCG

BAHNMAIER, William W., MAJ,
USMC

SHILLINGLAW, James S., LTCOL,
USMC

ADLER, Vance E., LT, USN

ALLEN, Edmond L., LCDR, USN

ALLEN, Galen B., CDR, USN

ANDERSON, David K., LCDR, USN

BANNAT, Edward G., LT, USN

BELIECH, Dewey E., Jr., LT, USN

BEST, James B., LCDR, USN

BRANCO, Robert J., LCDR, USN

BRUNELLI, John F., LT, USNR

BURNS, Reuben D., LCDR, USN

CARTER, James J., LCDR, USN

CATER, Charles E., LCDR, USN

COX, Landon G., Jr., LCDR, USN

Master of Science in Management (Continued)

CRAIG, Kenneth G., LCDR, USN
DAVIS, Gary T., LT, USN
*DIRKX, Peter C., LCDR, USN
DOOLEY, William J., LCDR, USN
FEESER, Henry R., LCDR, USN
*GAYTON, Lewie E., LCDR, USN
*GIFFORD, Corydon R., LCDR, USN
GOLSHAN-DJAVADI, Fariborz, LT, Iranian Navy
GOODWIN, Michael R., LCDR, USN
*HALE, Ronald A., LCDR, USN
HARGRAVE, Paul E., LCDR, USN
HICKOK, John H., LT, USN
*JONES, Charles E., III, LT, USN
KIMIAGAR, Hamid, LT, Iranian Navy
KLAHR, Owen A., LT, USN
KOESNANDAR, LTCOL, Indonesian Navy
KORSMO, Thomas B., LCDR, USN
LARSON, Jerold J., CDR, USN
LAURANCE, Richard B., LCDR, USN
LINK, Kent A., LCDR, USN
LOWERY, Willis E., CDR, USN
*LUKENAS, Leo A., CDR, USN
McCULLAGH, Paul W., LCDR, USN
MOORE, Edward, Jr., LT, USN
MOORE, Wesley H., LT, USN

MURPHY, Timothy A., LT, USN
NAJARIAN, Moses T., LCDR, USN
NGA, Tran-Trong, LCDR, Vietnamese Navy
POLAND, James B., CDR, USN
PON, Carl M., LTJG, USNR
QUEK, Poh Huat, CAPT, Singapore Army
QUINLAN, John H., LT, USN
REYNOLDS, Craig O., ENS, USN
ROBINS, Harry B., Jr., CDR, USN
RUANGVAIDYA, Sompun, COL, Royal Thai Army
ROSE, Michael A., LCDR, USN
RUSCYK, Joseph A., CDR, USN
SRIMUANG, Chamlong, MAJ, Royal Thai Army
*STRAUSS, Lance J., ENS, USN
STRUTHERS, Lynn C., LCDR, USN
TAI, Doan Danh, CDR, Vietnamese Navy
TALCOTT, Bruce E., LT, USN
VAN ROYEN, William S., LCDR, USN
*VERNON, Jerry L., LT, USN
WENZEL, Keneth E., ENS, USN
WILL, Thomas J., LCDR, USN
WYLIE, Walter J., LCDR, USN
YEOMAN, William R., LCDR, USN

Master of Science in Operations Research

BARNHART, Randall G., ENS, USN
BOWLER, Roland T., LT, USN
CALLAHAN, James F., LCDR, USN
*CHUN, Byung W., LTC, Republic of Korea Army
CREWS, Jeffrey W., ENS, USN
CUMMINGS, Jeffrey W., ENS, USN

*HO, Tae Pom, LCDR, Republic of Korea Navy
*MELDRUM, Duncan H., ENS, USN
*RIDHIROJ, Seri, CAPT, Royal Thai Army
YOUNG, Peter A., LT, USN

Master of Science in Electrical Engineering

HOOPER, John W., CAPT, USMC
ANDRADE, Regis S., CDR, Brazilian Navy
*AYERS, Daniel O., LCDR, USN
DARMAWAN, Major, Indonesian Navy
*DODD, James L., LT, USN
EVANS, Robert S., LT, USN
FRAZER, Paul D., LCDR, USN
HINTZ, Edward J., Jr., LT, USN
HOFFER, Charles A., LT, USN
*JOLLEY, Ronald S., LCDR, USN
KADARISMAN, Sugihono, Major, Indonesian Navy
KEETON, Lloyd L., LTJG, USNR
KETRON, Michael G., LTJG, USN
LAROCK, Robert E., LT, USN
LIMA, Celso G., LCDR, Brazilian Navy
*MAGER, George L., Jr., LT, USN
McKINLEY, David H., LCDR, USN
McWEY, Russell E., ENS, USN
MORGE, Kenneth W., LT, USN
MUSSO, Alvaro D., CDR, Uruguayan Navy
*PATRICK, Darl P., LT, USN
RANKIN, Thomas P., LT, USN
ROGERS, Herman A., LT, USN
ROSA, Marcelo O., LCDR, Brazilian Navy
*ROSS, Jessie C., JR., LTJG, USN
SANBORN, Philip M., LT, USN
SIMONEAUX, Donald C., LT, USN
STOCKSLAGER, William E., LT, USN
VAN, Tran Van, LTJG, Vietnamese Navy
ZUAZO, Raul., LCDR, Peruvian Navy

Master of Science in Mathematics

LEHMANN, Richard C., ENS, USN
WILSON, Eugene K., Jr., ENS, USN

Master of Science in Mechanical Engineering

*ATCHISON, Donald L., LT, USN
*BORNHOLDT, Robert A., LCDR, USN
CARLIN, Jorge N., LT, Peruvian Navy
*HOOKS, Maurice L., LT, USN
*O'CONNOR, Joseph M., LT, USN
ROBLES, Rex C., LT, Philippine Navy
*ROLFES, Robert W., ENS, USN
*SIMPSON, Michael G., LCDR, USN
*SMITH, Lawrence J., LCDR, USN
*SUCH, Carliss R., LT, USN

Master of Science in Meteorology

MALAY, Jonathan T., ENS., USN

Master of Science in Oceanography

*BAUGH, Dale E., LTJG, USN

Master of Science in Physics

ADER, Steven W., CPT, USA
DOERNER, William C., LTCOL, USMC
ADAMS, Merchant S., LT, USN
ALEXANDER, Marion R., Jr.,
LCDR, USN
BEHRENS, Peter, LCDR, Federal
German Navy
BIRCH, Barry S., LCDR, USN

FENLON, Robert M., ENS, USN
FERLIC, Kenneth P., ENS, USN
KUNZ, Chester A., Jr., CDR, USN
MEYER, James R., LCDR, USN
OLSON, Harold M., Jr., LCDR, USN
WADDELL, Ronald D., LT, USN
WEGENER, Bernd, LCDR, Federal
German Navy

Aeronautical Engineer

BEAL, Robert E., LT, USN McCRACKEN, William L., LT, USN

Electrical Engineer

*EDMONDSON, Gary D., LT, USN

Mechanical Engineer

*ATCHISON, Donald L., LT, USN *SMITH, Lawrence J., LCDR, USN
*HOOKS, Maurice L., LT, USN *SIMPSON, Michael G., LCDR, USN

Doctor of Philosophy

CAPRA, James R., LT, USN HEWETT, Marle D., CDR, USN
GIRARD, Paul E., LCDR, USN *MITSCHANG, George W., LT, USN
HASKELL, Richard D., LCDR, USN *SMITHEY, William J.H., CDR, USN
HAYNE, William J., LCDR, USN WAYLAN, Cecil J., LCDR, 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.

