



1972-03

Naval Postgraduate School Graduation Exercises / Class of March 1972

Naval Postgraduate School (U.S.)

Monterey, California. Naval Postgraduate School

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U.S. NAVAL POSTGRADUATE SCHOOL

MONTEREY, CALIFORNIA

GRADUATION EXERCISES

FRIDAY AFTERNOON

24 MARCH 1972

AT TWO O'CLOCK

Ref.
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NAVAL POSTGRADUATE SCHOOL
MONTEREY, CALIF. 93940



Superintendent
A. SCOTT GOODFELLOW
Rear Admiral, United States Navy

Provost
MILTON U. CLAUSER
Doctor of Philosophy

Chief of Staff
ROBERT Y. GAINES
Captain, United States Navy

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

Director
of Military Operations and Logistics
JOHN E. McQUARY
Captain, United States Navy

Dean of Programs
W.F. KOEHLER
Doctor of Philosophy

MISSION

"To conduct and direct the 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 MELVIN F. REYNOLDS Grand Marshal
Professor ALFRED W.M. COOPER Marshal
Professor RUSSEL H. STOLFI Marshal
Lieutenant Colonel JOHN H. SMITH, U.S. Marine Corps Marshal

NATIONAL ANTHEM

INVOCATION

Captain JOSEPH F. CLOONAN, CHC, U.S. Navy

INTRODUCTION OF SPEAKER

Rear Admiral A. SCOTT GOODFELLOW, U.S. Navy

ADDRESS TO GRADUATES

The Honorable ROBERT A. FROSCH

Assistant Secretary of the Navy
(Research and Development)

PRESENTATION OF NAVY LEAGUE OF MONTEREY AWARD FOR ACADEMIC IMPROVEMENT

PRESENTATION OF CNO COMMUNICATIONS AWARD AND CNO COMMUNICATIONS CERTIFICATE

ANNOUNCEMENT OF DEGREES

Rear Admiral A. SCOTT GOODFELLOW, U.S. Navy
Provost MILTON U. CLAUSER

For the Degree of:

Presentation of Candidates by Department Chairman:

Bachelor of Arts with Major in Government/International Relations Professor BOYD F. HUFF
Bachelor of Science in Aeronautical Engineering Professor RICHARD W. BELL
Bachelor of Science with Major in Business Administration Professor DONALD P. GAYER
Bachelor of Science with Major in Computer Science Dean BROOKS J. LOCKHART
Bachelor of Science in Engineering Science Dean BROOKS J. LOCKHART
Bachelor of Science in Meteorology Professor GEORGE J. HALTINER
Bachelor of Science with Major in Oceanography Professor DALE F. LEIPPER
Master of Science in Aeronautical Engineering Professor RICHARD W. BELL
Master of Science in Electrical Engineering Professor SYDNEY R. PARKER
Master of Science with Major in Mathematics Professor ROBERT E. GASKELL
Master of Science in Meteorology Professor GEORGE J. HALTINER
Master of Science in Oceanography Professor DALE F. LEIPPER
Master of Science in Computer Systems Management Professor DONALD P. GAYER
Master of Science in Management Professor DONALD P. GAYER
Master of Science in Operations Research Professor DONALD P. GAYER
Electrical Engineer Professor SYDNEY R. PARKER
Mechanical Engineer Professor ROBERT H. NUNN

BENEDICTION

Captain JOSEPH F. CLOONAN, CHC, U.S. Navy

RECESSIONAL

PLATFORM PARTY

First Row (left to right)

Captain Joseph F. Cloonan, CHC,
U.S. Navy
Chaplain, Naval Postgraduate School

Provost Milton U. Clauser
Provost, Naval Postgraduate School

Colonel Jack E. Dausman
United States Marine Corps

Major General Harold G. Moore
United States Army

Rear Admiral A. Scott Goodfellow,
U.S. Navy
Superintendent, Naval Postgraduate School

The Honorable Robert A. Frosch
Assistant Secretary of the Navy
(Research and Development)

Captain Otto D. Tiderman, U.S. Navy
Representative, Naval Communications Command

Mr. Gordon K. Reid, President
Monterey Peninsula Council of the Navy League

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

Second Row

Professor Robert H. Nunn
Department of Mechanical
Engineering

Professor Robert E. Gaskell
Department of Mathematics

Professor Sydney R. Parker
Department of Electrical
Engineering

Professor Dale F. Leipper
Department of Oceanography

Professor George J. Haltiner
Department of Meteorology

Dean Brooks J. Lockhart
Dean of Curricula

Professor Donald P. Gaver
Department of Operations Research
and Administrative Sciences

Professor Richard W. Bell
Department of Aeronautics

Professor Boyd F. Huff
Department of Government and
Humanities

awards

Recipient of the Navy League of Monterey Award for Academic Improvement

Lieutenant Commander Jimmy R. Slaughter, U.S. Navy

Recipient of the CNO Communications Award

Lieutenant Commander John C. Thorn, U.S. Navy

Recipient of the CNO Communications Certificate

Lieutenant Wesley M. Kramer, U.S. Navy

Naval Postgraduate School Curricular Officers

Commander JOHN D. HARTLEY, U.S. Navy
Operations Research/Systems Analysis

Commander DONALD W. MATHEWS, U.S. Navy
Aeronautical Engineering

Commander JOE M. JAMES, U.S. Navy
Electronics and Communications Engineering

Commander GEORGE C. SUP, U.S. Navy
Ordnance Systems Engineering

Captain JOHN R. WALES, U.S. Navy
Naval Engineering

Commander JAMES J. DAGDIGIAN, U.S. Navy
Environmental Sciences

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

Lieutenant Commander PHILIP J. O'CONNELL, U.S. Navy
Engineering Science

Commander LLOYD T. ZUEHLKE, U.S. Navy
Baccalaureate Programs

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

BRYANT, James C., LCDR, USN	McBETH, Dan C., LCDR, USNR
DURKIN, Wallace M., LCDR, USN	MESERVE, Theodore J., LT, USN
ELLISON, Charles L., LT, USNR	MEZZADRI, Francis X., LCDR, USN
HARRELL, Joe W., LT, USN	NELSON, Bruce R., LCDR, USN
JENKINS, James A., LT, USN	QUINN, Jeffrey, LT, USN
KALIN, Robert E., LCDR, USNR	THORNTON, Peter C., LT, USNR
KARLISCH, Manfred, LT, USN	*WEICHMAN, Denis R., CDR, USN
LASHER, William J., Jr., LT, USN	WESENBERG, Wm. W., LCDR, USNR

Bachelor of Science in Aeronautical Engineering

COLEMAN, John B., Jr., LT, USN

Bachelor of Science with Major in Business Administration

COFFEY, William M., LT, USNR	*GRAHAM, Robert F., CDR, USN
DONAHUE, John C., LT, USN	*SMITH, Stanley A., LT, USN
FISHER, Gary C., LCDR, USN	

Bachelor of Science with Major in Chemistry

*BROWN, George R., LCDR, USN

Bachelor of Science with Major in Computer Science

BACON, Robin L., CDR, USNR	NICHOLSON, Herbert H.J., CDR, USN
BEST, William V., CDR, USNR	
HINKLE, James L., LCDR, USNR	

Bachelor of Science in Electrical Engineering

*ROMERO, Edgar V., LTJG, Colombian Navy	*PRUNSCH, Heinz R.P., LT, Federal German Navy
PALOUBIS, John, LT, Hellenic Navy	*ZIMMERMANN, Wolff-Ruediger, LT, Federal German Navy

Bachelor of Science in Engineering Science

HARRELD, Roger A., LT, USN	*KEARNEY, Michael E., LT, USN
ISHERWOOD, Raymond T., LCDR, USN	TINCHER, Edward S., LT, USN
	*WILSON, Melvin A., LT, USN

Bachelor of Science in Meteorology

SAUL, Joe M., LT, USN	*TURCZYN, Daniel W., LCDR, USN
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Bachelor of Science with Major in Oceanography

UJLAKI, Michael, Jr., LT, USN

Master of Science in Aeronautical Engineering

ANDERSON, Terrance E., LT, USN	FARMER, Clinton J., LT, USN
BIERY, George M., II, LT, USN	GIBSON, Richard A., LT, USN
BUEHLER, Roy R., LCDR, USN	HELMSIN, Francis K., LT, USN
BURNS, Richard J., LT, USN	HEYER, Robert W., LT, USN
CALKINS, Franklin W., Jr., LT, USN	HUSTON, William G., CDR, USN
*CLEMENT, Russell L., LCDR, USN	KAHRS, John H., III, LCDR, USN
COLLIER, Arthur H., LT, USN	*MILES, Kenneth K., LT, USN
DECARLI, Wiley P., LCDR, USN	PLUM, Jerry E., LT, USN
DeTHOMAS, John V., LT, USN	RODRICK, Peter T., LT, USN
ENTERLINE, Edward R., LT, USN	WEBSTER, Kenneth A., LCDR, USNR

Master of Science in Computer Systems Management

*GILKISON, Edward R., CDR, USN ULUSER, Yilmaz, LTJG, Turkish Navy
MILLER, George, CDR, USN

Master of Science in Electrical Engineering

ALFREDSON, Leonard E., LT, USN PALOUBIS, John, LT, Hellenic Navy
CUMMINGS, David L., LT, USN *ROBBINS, Christopher B., LCDR, USN
ELROD, Stephen A., LCDR, USN SANDERS, George A., LT, USN
HANNUM, Edmund P., Jr., LT, USN SCOTT, William J., LT, USN
KENNEDY, Edward E., LCDR, USN

Master of Science with Major in Mathematics

BLOXOM, Edward L., CAPT, USMC

Master of Science in Management

*ANDERSON, Richard G., LCDR, USN LYONS, Joseph E., Jr., LT, USN
BALIAN, Alexander G., LCDR, USN *MARSHALL, Paul E., LT, USN
BINH, Nguyen Van, LT, Vietnamese Navy McGUANE, Gary F., LT, USN
BONTROP, Paul N., Jr., LT, USN MEADE, Richard J., LT, USN
BRANCH, Allen D., LCDR, USN MILLER, Dennie L., LT, USN
CARLSEN, "W" Eugene, LT, USN MOHORICH, Helen M., LCDR, USN
CATONE, Robert A., LT, USN *NACE, Wilbert J., CDR, USN
COBURN, Clarence D., Jr., LT, USN NASH, Malcolm P., III, LCDR, USN
*DURFEE, Gerald A., LCDR, USN O'HARA, James P., CDR, USN
GARDEN, Leon B., LCDR, USN ROORBACH, James A., II, LT, USN
*HOLTHAUS, Hollis L., LCDR, USN ROSSELLE, William T., LT, USN
*HOOPER, Charles C., ENS, USN THORN, John C., LCDR, USN
JOHNSON, John D., LCDR, USN TODARO, Fred M., LCDR, USN
*KEISER, Ronald L., LT, USN TULLOCH, Allan W., LT, USN
KLEIN, John F., LT, USN TURNER, Laurence H., Jr., LT, USN
KOLB, William W., LCDR, USN WILLIAMS, Charles R., Jr., LT, USN
KRAMER, Wesley M., LT, USN *WILSON, Stephen R., LT, USN
WOOLMAN, Joseph C., LCDR, USN

Master of Science in Mechanical Engineering

ERICSON, Walter A., LT, USN *WOODARD, John S., LCDR, USN
FRICK, Kenneth E., LT, USN

Master of Science in Meteorology

BOZICH, Robert, LT, USN McCONATHY, Donald R., LT, USN
BREARTON, Gerald A., LT, USN NELSON, Thomas S., LT, USNR
COLVERT, Lundy R., LCDR, USN SAFLEY, Gordon W., LT, USN
FREEMAN, David L., LT, USN SLAUGHTER, Jimmy R., LCDR, USN
GLAES, Roger B., LCDR, USN STANFIELD, Robert A., LT, USN
HEBURN, George W., LT, USN TAIPALE, Denis G., LCDR, USN
HEPNER, Bruce W., LT, USN TRUMBOWER, Glenn C., LT, USN
HOFFMAN, Carl W., LCDR, USN ZEIGLER, Lewis E., LCDR, USNR
LANGLAND, Rodger A., LT, USN

Master of Science in Oceanography

McCLELLAND, Joseph J., Jr., LT, USCG *LEWIS, Laird W., Jr., ENS, USN
*AUSTIN, Marshall H., Jr., LT, USN MARTINEK, Charles A., LT, USN
BARRY, Robert F., LT, USN MASSICOT, William H., LT, USN
BELSER, Richard B. III, LCDR, USN *McKENDRICK, John D., Jr., LT, USN
*BORDY, Michael W., LT, USN PETERSON, Richard S., LT, USN
BURCHAM, William R., LT, USNR RINALDI, Ronald D., LT, USNR
CAMP, Norman T., LCDR, USN SEYMOUR, Harry A., Jr., LT, USN
DUCHOCK, Charles J., Jr., LCDR, USN SIMPSON, John P., III, LT, USN
HARDER, Ronald E., LT, USN SIPE, Edman L., LT, USN
*HOWARD, Hugh W., Jr., LT, USN STEWART, Robert P., LT, USN
KLINE, Edward M., Jr., LT, USN WATERMAN, Larry W., LCDR, USN
WILLEMS, Robert C., LT, USN

Master of Science in Operations Research

DOUGLAS, Robert E., MAJ., USA McKEE, David L., MAJ, USA
FISCHER, George A., Jr., CPT, USA McLESKEY, Frank R., CPT, USA
HOWARD, John D., MAJ, USA SCHEIDIG, Robert E., MAJ, USA
KRAUSE, Robert G., MAJ, USA SILVEY, William J., MAJ, USA

Master of Science in Operations Research (cont.)

WEST, Arthur L., III, CPT, USA	LAABS, Stephen K., LCDR, USN
WITT, William W., MAJ, USA	LONG, Douglas A., LT, USN
*ZIEGLER, Bernard L., CPT, USA	LUNDE, Roger K., LCDR, USN
BURNS, Thomas V., CAPT, USMC	MACKE, Richard C., LCDR, USN
HARRISON, John C., CAPT, USMC	*MINER, John O., Jr., LT, USN
HESTER, Milton J., CAPT, USMC	MURPHY, Charles R., Jr., LT, USN
LLOYD, Calvin A., II, MAJ, USMC	OELMANN, Harlan D., LCDR, USN
MURRAY, John A., MAJ, USMC	O'NEILL, James P., CDR, USN
PRESTON, Charles P., Jr., CAPT, USMC	PADGETT, John E., LT, USN
TRUMPFHELLER, Robert C., MAJ, USMC	PETERSON, Michael C., LT, USN
ALTERGOTT, Dennis A., LT, USN *	*PIERSON, Richard L., LT, USN
BALTUTIS, John S., LCDR, USN	POWELL, Hal B., LCDR, USN
*BOWMAN, Terry L., LCDR, USN	*PRATH, Robert L.E., LCDR, USN
CLIFT, Fred J., LT, USN	*QUIRK, David J., LT, USN
CLOTHIER, Thomas J., LT, USN *	ROACH, Charles A., LT, USN
*CONNELL, Daniel E., LT, USN	RUCKNER, Edward A., Jr., LCDR, USN
CUSHING, John S., LT, USN	*SCHINELLER, Frederick J. III, LT USN
DELL, Jack V., LCDR, USN	SETTLE, Frank L., LT, USN
EDWARDS, Bufford R., LT, USN	*SISSON, Harold D., Jr., LT, USN
GAUTIER, William K., LT, USN	SPENCER, Lane L., CDR, USN
*GENERAL, John A., LT, USN	*SUTTON, Robert, LT, USN
HALL, Robert E., LT, USN	SWANSON, Barry G., LT, USN
HAYNE, William J., LCDR, USN *	*TUEL, William S., II, LT, USN
HESCHL, William C., LT, USN	WILLIAMS, Robert J., LCDR, USN
JEFFRIES, Clifford L., LCDR, USN	

Electrical Engineer

*HANNUM, Edmund P., Jr., LT, USN	ROBBINS, Christopher B., LCDR, USN
PALOUBIS, John, LT, Hellenic Navy	

Mechanical Engineer

*ERICSON, Walter A., LT, USN	*FRICK, Kenneth E., LT, USN
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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 has a satin lining of dark blue with a gold chevron.

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.

