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# Naval Postgraduate School Graduation Exercises / Class of September 1971

Naval Postgraduate School (U.S.)

Monterey, California. Naval Postgraduate School

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U S NAVAL POSTGRADUATE SCHOOL MONTEREY, CALIFORNIA

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# GRADUATION EXERCISES

FRIDAY AFTERNOON, 24 SEPTEMBER 1971, AT FOUR O'CLOCK

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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 WILLIAM R. SAMUEL, CHC, U.S. Navy

### INTRODUCTION OF SPEAKER

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

### ADDRESS TO GRADUATES

Vice Admiral RAYMOND E. PEET, U.S. Navy  
Commander, First Fleet

### PRESENTATION OF NAVY LEAGUE OF MONTEREY AWARD FOR ACADEMIC IMPROVEMENT

### PRESENTATION OF CNO COMMUNICATIONS AWARD

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 JACK R. BORSTING
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 Electrical Engineering . . . . .	Professor CHARLES H. ROTHAUGE
Bachelor of Science in Meteorology . . . . .	Professor GEORGE J. HALTINER
Bachelor of Science with Major in Oceanography . . . . .	Professor DALE F. LEIPPER
Bachelor of Science in Physics . . . . .	Professor OTTO HEINZ
Master of Science in Aeronautical Engineering . . . . .	Professor RICHARD W. BELL
Master of Science in Computer Science . . . . .	Dean BROOKS J. LOCKHART
Master of Science in Engineering Acoustics . . . . .	Dean BROOKS J. LOCKHART
Master of Science in Electrical Engineering . . . . .	Professor CHARLES H. ROTHAUGE
Master of Science in Management . . . . .	Professor JACK R. BORSTING
Master of Science in Operations Research . . . . .	Professor JACK R. BORSTING
Master of Science with Major in Mathematics . . . . .	Professor ROBERT E. GASKELL
Master of Science in Mechanical Engineering . . . . .	Professor ROBERT H. NUNN
Master of Science in Meteorology . . . . .	Professor GEORGE J. HALTINER
Master of Science in Oceanography . . . . .	Professor DALE F. LEIPPER
Master of Science in Physics . . . . .	Professor OTTO HEINZ
Electrical Engineer . . . . .	Professor CHARLES H. ROTHAUGE

## BENEDICTION

Captain WILLIAM R. SAMUEL, CHC, U.S. Navy

## RECESSIONAL

## PLATFORM PARTY

### First Row (left to right)

Provost Milton U. Clauser  
Provost, Naval Postgraduate School

Captain Edward T. Alberta, U.S. Navy  
Assistant Commander for Operations and Readiness  
Naval Communications Command

Colonel William L. Webb, Jr.  
U. S. Army

Brigadier General Paul G. Graham  
U. S. Marine Corps

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

Vice Admiral Raymond E. Peet, U.S. Navy  
Commander, First Fleet

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

Captain William R. Samuel, CHC, U.S. Navy  
Chaplain, Naval Postgraduate School

### Second Row

Professor Robert H. Nunn  
Department of Mechanical Engineering

Professor Robert E. Gaskell  
Department of Mathematics

Professor Otto Heinz  
Department of Physics

Professor Dale F. Leipper  
Department of Oceanography

Professor George J. Haltiner  
Department of Meteorology

Professor Charles H. Rothauge  
Department of Electrical Engineering

Dean Brooks J. Lockhart  
Dean of Curricula

Professor Jack R. Borsting  
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 CORAL V. SCHUFELDT, U.S. Navy

Recipient of the CNO Communications Award

Lieutenant ROBERT E. MOLLET, U.S. Navy

Recipient of the CNO Communications Certificate

Commander JOHN P. McNICHOLS, JR., U.S. Navy

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## Naval Postgraduate School Curricular Officers

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

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

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

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Ordnance Systems Engineering

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

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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

## Diploma of Completion

### Computer Science

\*DONALD R. PENNINGTON, LCDR, USN

### Engineering Science

\*GARY R. KAMP, LT, USN

\*FREDERICK M. WISSING, LT, USN

### Oceanography

\*HARRY F. BALL, JR, LCDR, USN

---

## Bachelor of Arts with Major in Government/International Relations

ALLAN W. ANDERSON, LT, USN

CLARENCE H. JUHL, LT, USN

VERNON R. BUSSARD, CDR, USN

\*ROGER P. McTIGHE, CDR, USN

WILLIAM E. DENNISON, CDR, USN

KEITH O. NYMAN, LT, USN

BENJAMIN F. FOLSOM, JR, LT, USN

HAROLD T. NICKS, LT, USN

RONALD V. HILL, LCDR, USN

\*RICHARD A. WILEY, LT, USN

## Bachelor of Science in Aeronautical Engineering

THOMAS F. DOYLE, JR, LCDR, USN

MATTHEW T. MAXWELL, III, CDR, USN

GARY W. FISKE, LT, USN

DONALD O. TAYLOR, LT, USN

THOMAS R. GREEN, LCDR, USN

\*ROBERT L. VENABLE, LCDR, USN

RUSSELL W. HARRISON, JR, LT, USN

ROBIN C. WOOD, LT, USN

## Bachelor of Science with Major in Business Administration

WILFRED J. BERGERON, CDR, USN

NICHOLAS M. TARR, LCDR, USN

\*THOMAS J. MOORE, LCDR, USN

## Bachelor of Science with Major in Computer Science

\*BURTON L. BENSON, LT, USN

SUPRAPTO, MAJ, Indonesian Navy

WILLIAM E. SMITH, LCDR, USN

### Bachelor of Science in Engineering Science

GREGORY S. BOOTH, LT, USN	FREDRIC A. DUNBAR, CDR, USN
RICHARD S. BUTTERFIELD, LT, USN	*MALCOLM E. FITZGERALD, LCDR, USN
*THOMAS K. DAVIS, LT, USN	DANIEL E. JOHNSON, LT, USN
HENRY R. DOMBROWSKI, LCDR, USN	HALVOR N. PETERSEN, LCDR, USN

### Bachelor of Science in Electrical Engineering

*SEYFETTIN ENGINLER, LTJG, Turkish Navy	*DAVID A. VETTER, LCDR, USN
*TAHSIN KARAN, LTJG, Turkish Navy	ROLAND L. WEIDT, LT, USN
JEFFREY S. PATTERSON, LCDR, USN	THOMAS R. WORTHAM, JR, LT, USN
WILLIAM W. POSENECKER, LT, USN	

### Bachelor of Science in Meteorology

RICHARD C. CORKRUM, LCDR, USN

### Bachelor of Science with Major in Oceanography

BARRY L. DOLGOW, LT, USN

### Bachelor of Science in Physics

LEROY R. BANNACH, LCDR, USN	DONALD L. COVER, LCDR, USN
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### Master of Science in Aeronautical Engineering

MERLIN R. HUCKEMEYER, CAPT, USMC	MICHAEL H. MERRITTS, LT, USN
JOHN A. BURT, LCDR, USN	RICHARD J. MILES, LCDR, USN
LEWIS L. COBURN, LT, USN	ARTHUR W. NELSON, III, LT, USN
JOSEPH J. DANTONE, JR, LT, USN	CARL S. PARK, JR, LT, USN
MARLE D. HEWETT, LCDR, USN	EDGAR D. PRIEST, JR, LT, USN
ARNE E. JOHNSON, LCDR, USN	CORAL V. SCHUFELDT, LCDR, USN
JAMES N. KRAFT, LT, USN	WILLIAM J. TINSTON, JR, LT, USN
RONALD J. LAIB, LT, USN	ROBERT A. WILDMAN, LT, USN

### Master of Science in Computer Science

THOMAS A. BARRY, LT, USN	ALFRED H. SPRUELL, JR, LCDR, USN
JOHN N. MCKAY, JR, LCDR, USN	

### Master of Science in Computer Systems Management

\*WALTER A. PEZET, III, LCDR, USN

### Master of Science in Engineering Acoustics

LEE H. HENDERSON, LCDR, USN	PETER A. TRUMP, LT, USN
-----------------------------	-------------------------



## Master of Science in Electrical Engineering

EVAGELOS BACOPOULOS, LCDR,  
Hellenic Navy  
RAYMOND L. BELANGER, LCDR, USN  
ÖZDEN BERKAN, LTJG, Turkish Navy  
BRADFORD HUMPHREY, JR, LT, USN  
\*JACK U. KLAAS, LT, USN  
\*GUY R. KNIERIEM, ENS, USN  
ROBERT E. MOLLET, LT, USN  
\*DENNIS R. OLDSON, LT, USN  
MAURO CESAR R. PEREIRA, CDR, Brazilian Navy  
MARVIN J. WENIGER, LT, USN

## Master of Science in Management

LOREN L. CLARK, CDR, USN  
JOHN C. COGSWELL, III, LT, USN  
RONALD A. COLE, LT, USN  
\*JOSEPH I. CONVERSE, JR, LCDR, USN  
ERICH H. CRAMER, CDR, USN  
JAMES A. DENNIS, JR, LCDR, USN  
\*PREBEN E. EBBESEN, LT, USN  
PHILIP S. GUBBINS, LCDR, USN  
ALAN L. HEISIG, LT, USN  
WILLIAM A. HIMCHAK, LCDR, USN  
\*EDWARD B. HUBBARD, JR, LT, USNR  
DEAN R. LARSON, LT, USN  
DANIEL B. LEAR, LT, USN  
\*JOHN P. McNICHOLS, JR, CDR, USN  
~~MICHAEL G. MESZAROS, CDR, USNR~~  
PATRICK A. PANCOAST, LCDR, USN  
PATRICK J. SHEEDY, JR, LT, USN  
ROBERT H. SISSON, LCDR, USN  
PETER K. STEVENSON, CDR, USN  
~~JOEL L. WILKINS, LT, USN~~ MARTIN J. EGAN, LCOL, USMC

## Master of Science in Operations Research

LARRY D. BACHELOR, MAJ, USA  
\*PETER M. BENTSON, MAJ, USA  
JAMES H. CAPPS, CPT, USA  
THOMAS P. CARNEY, MAJ, USA  
PHILLIP A. COSTAIN, MAJ, USA  
ROBERT D. EVANS, MAJ, USA  
RALPH E. HAYES, MAJ, USA  
ANSEL L. HUGGINS, JR, MAJ, USA  
\*WILLIAM M. KNAUER, MAJ, USA  
THOMAS F. REESE, MAJ, USA  
STEPHEN SILVASY, JR, MAJ, USA  
RAY D. SPINOSA, CPT, USA  
WILLIAM J. WALLACE, JR, LCDR, USCG  
RANDALL W. AUSTIN, MAJ, USMC  
THEODORE T. BEAN, CAPT, USMC  
WILLIAM A. DAVIDSON, III, CAPT, USMC  
ROBERT W. G. JONES, LCOL, USMC  
HAROLD J. KEELING, LCOL, USMC  
\*WILLIAM G. KEMPLE, CAPT, USMC  
LOUIS T. NAPPI, MAJ, USMC  
JAMES A. BIGGINS, LCDR, USN  
WAYNE H. BOSTIC, LT, USN  
JAMES D. BUTTINGER, LT, USN  
DAVID R. CAMPBELL, LT, USN  
\*GEORGE F. CHRISTIAN, LT, USN  
OREN B. COOKE, LCDR, USN  
TEDDY G. DAVIDSON, LT, USN  
GERALD W. DUNNE, LCDR, USN  
EUGENE S. DVORNICK, LCDR, USN  
ERNEST F. GALE, JR, LT, USN  
RICHARD L. GATES, CDR, USN  
LEE F. GUNN, LT, USN  
HOWARD H. HAMILTON, LT, USN  
CHARLES S. HYATT, LCDR, USN  
PHILIP R. JACOBS, LCDR, USN  
CHARLES W. JONES, LT, USN  
BJORNAR J. KIBSGAARD, LCDR,  
Royal Norwegian Navy  
KERRY E. KIRK, LCDR, USN  
JOHN W. McKINNEY, LT, USN  
RICHARD W. MISTER, LCDR, USN  
HANS-DIETER MUELLER, LCDR,  
Federal German Navy  
TOR M. NIKOLAISEN, CDR,  
Royal Norwegian Navy  
TANER OZBAYKAL, LTJG, Turkish Navy  
RICHARD S. PARODI, LT, USN  
RICHARD H. PHELAN, LCDR, USN  
ROBERT T. PROBUS, LT, USN

### Master of Science in Operations Research (Continued)

EARNEST W. RICHARDSON, LCDR, USN  
ROBERT E. RINKER, LT, USN  
JAMES W. ROONEY, LT, USN  
\*JOHN D. SCHOENFELD, LTJG, USN  
NICHOLAS J. STASKO, LCDR, USN  
BILLY W. SURLES, LCDR, USN  
ALEXANDER A. TADAY, LT, USN  
PETER TOCHA, LCDR, Federal German Navy  
DAVID G. WILLINGHAM, LCDR, USN  
GEORGE E. WILSON, LT, USN  
MICHAEL G. WILSON, LCDR, USN

### Master of Science with Major in Mathematics

WILLIAM K. TERRELL, CAPT, USMC  
JAMES N. SWAN, LT, USN

### Master of Science in Mechanical Engineering

EDWARD J. CARLSON, LT, USN  
\*ERCAN TURKEN, LTJG, Turkish Navy

### Master of Science in Meteorology

STEPHEN G. COLGAN, LT, USN  
LEINO B. CORGNATI, JR, LT, USN  
ALLEN J. FRANK, LCDR, USN  
LARRY L. GIAUQUE, LCDR, USN  
PAUL B. KNOSTMAN, LCDR, USN  
\*JAMES C. KRAFT, LT, USN  
JOHN J. KRALL, LCDR, USN  
ROBERT P. KURTH, LT, USN  
~~THOMAS J. MANTEI, LCDR, USN~~  
CHARLES G. STEINBRUCK, LCDR, USN  
GEORGE VARGA, LCDR, USN  
~~CHARLES E. WORKMAN, LCDR, USN~~  
\*JOHN R. WRIGHT, LT, USN

### Master of Science in Oceanography

RAYMOND C. ANDERSON, LCDR, USN  
WILLIAM C. BARNEY, LCDR, USN  
GEORGE E. BOLLOW, LT, USN  
MARK F. CRANE, LCDR, USN  
\*THOMAS W. CREWS, III, LT, USN  
ROBERT E. DELGADO, LT, USNR  
M. YAVUZ ERGENGIL, LT, Turkish Navy  
FRANK M. HUNT, JR, LCDR, USN  
MARIA KAZANOWSKA, LT, USN  
MICHAEL J. LIEMANDT, LT, USN  
WILLIAM J. LOUNSBERY, LCDR, USN  
ALEXANDER MARATOS, LT, Hellenic Navy  
RAYMOND T. MICHELINI, LT, USN  
CHARLES S. MINTER, III, LCDR, USN  
AUSTEN M. OAKE, CAPT, Canadian Armed Forces  
WILLIAM REVEZ, JR, LCDR, USN  
JOSE M. SALDANHA, LT, Portuguese Navy  
JAMIE SANCHEZ C., LCDR, Colombian Navy  
\*RICHARD H. SCHAUS, LCDR, USN  
BRIAN H. SHOEMAKER, LCDR, USN  
HARRO H. SIEBERT, LT, USN  
GARY W. WILSON, LCDR, USN  
RALPH A. ZARDESKAS, LT, USN

### Master of Science in Physics

\*LEWIS P. GABY, II, CAPT, USAF  
DONALD L. COVER, LCDR, USN

---

### Electrical Engineer

ÖZDEN BERKAN, LTJG, Turkish Navy  
BRADFORD HUMPHREY, JR, LT, USN  
\*DENNIS R. OLDSO, LT, USN  
MAURO CESAR R. PEREIRA, CDR, Brazilian Navy  
MARVIN J. WENIGER, LT, USN

### Mechanical Engineer

\*ERCAN TURKEN, LTJG, Turkish 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
Cornel 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 NAVAL POSTGRADUATE SCHOOL

The United States 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 "United States 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 Deputy Superintendent for Programs (military) and a Dean of Programs (civilian). The reorganization in no way changes the curricula of courses offered, but achieves unity of policy and gives emphasis to the educational programs required of the Navy.