



1966-05

# Naval Postgraduate School

## Commencement Exercises / May 1966

Naval Postgraduate School (U.S.)

Monterey, California. Naval Postgraduate School

---

<http://hdl.handle.net/10945/41166>



Calhoun is a project of the Dudley Knox Library at NPS, furthering the precepts and goals of open government and government transparency. All information contained herein has been approved for release by the NPS Public Affairs Officer.

**Dudley Knox Library / Naval Postgraduate School**  
**411 Dyer Road / 1 University Circle**  
**Monterey, California USA 93943**

<http://www.nps.edu/library>

38  
336  
—  
77



---

UNITED STATES NAVAL POSTGRADUATE SCHOOL

---

# COMMENCEMENT EXERCISES

---

FRIDAY, 27 MAY 1966 AT TEN O'CLOCK IN THE MORNING MONTEREY, CALIFORNIA

---

Library  
U. S. Naval Postgraduate School  
Monterey, California

Superintendent  
EDWARD J. O'DONNELL  
Rear Admiral, United States Navy

Deputy Superintendent  
HENRY F. LLOYD  
Captain, United States Navy

Academic Dean  
ROBERT FROSS RINEHART  
Doctor of Philosophy

Director of Programs  
JOHN W. MURPH  
Captain, United States Navy

Dean of Programs  
WILBERT FREDERICK KOEHLER  
Doctor of Philosophy

## MISSION

"To conduct and direct the Advanced Education of commissioned officers, to broaden the professional knowledge of general line officers, and to provide such other indoctrination, 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."



# PROGRAM

PROCESSIONAL . . . . . GRAND MARSHAL, Professor BOYD MEWBORN  
MARSHALS . . . . . Professor M. F. REYNOLDS  
Lieutenant Colonel A. KOSITCH, U. S. Marine Corps

## NATIONAL ANTHEM

### INVOCATION

Captain SAMUEL D. CHAMBERS, CHC, U. S. Naval Reserve

### INTRODUCTION OF SPEAKER

Rear Admiral EDWARD J. O'DONNELL, U. S. Navy

### ADDRESS TO GRADUATES

The Honorable PAUL H. NITZE, Secretary of the Navy

### PRESENTATION OF MEDALLIONS TO DISTINGUISHED PROFESSORS

#### PRESENTATION OF CAPTAIN J. C. WOELFEL AWARD

#### PRESENTATION OF MEWBORN STUDENT RESEARCH AWARD

#### AWARDS OF DIPLOMAS FOR COMPLETION OF CURRICULA

Captain JOHN W. MURPH, U. S. Navy

CONFERRING OF DEGREES . . . . . Rear Admiral EDWARD J. O'DONNELL, U. S. Navy  
Dean ROBERT F. RINEHART

For the Degree of:	Presentation of Candidates by Department Chairmen:
Bachelor of Arts . . . . .	Professor EMMETT F. O'NEIL
Bachelor of Science . . . . .	Commander CARL C. SCHMUCK, USN
Bachelor of Science in Aeronautical Engineering . . . . .	Professor RICHARD W. BELL
Bachelor of Science in Chemistry . . . . .	Professor GILBERT F. KINNEY
Bachelor of Science in Communications Engineering . . . . .	Professor CHARLES H. ROTHAUGE
Bachelor of Science in Electrical Engineering . . . . .	Professor CHARLES H. ROTHAUGE
Bachelor of Science in Engineering Electronics . . . . .	Professor CHARLES H. ROTHAUGE
Bachelor of Science in Mechanical Engineering . . . . .	Professor ROBERT E. NEWTON
Bachelor of Science in Meteorology . . . . .	Professor GEORGE J. HALTINER
Bachelor of Science in Physics . . . . .	Professor EUGENE C. CRITTENDEN, Jr.
Master of Science . . . . .	Professor W. RANDOLPH CHURCH
Master of Science in Aeronautical Engineering . . . . .	Professor RICHARD W. BELL
Master of Science in Chemistry . . . . .	Professor GILBERT F. KINNEY
Master of Science in Materials Science . . . . .	Professor GILBERT F. KINNEY
Master of Science in Communications Engineering . . . . .	Professor CHARLES H. ROTHAUGE
Master of Science in Electrical Engineering . . . . .	Professor CHARLES H. ROTHAUGE
Master of Science in Engineering Electronics . . . . .	Professor CHARLES H. ROTHAUGE
Master of Science in Mechanical Engineering . . . . .	Professor ROBERT E. NEWTON
Master of Science in Meteorology . . . . .	Professor GEORGE J. HALTINER
Master of Science in Physical Oceanography . . . . .	Professor GEORGE J. HALTINER
Master of Science in Operations Research . . . . .	Professor JACK R. BORSTING
Master of Science in Physics . . . . .	Professor EUGENE C. CRITTENDEN, Jr.
Aeronautical Engineer . . . . .	Professor RICHARD W. BELL
Doctor of Philosophy . . . . .	Dean ROBERT F. RINEHART

## BENEDICTION

Captain THOMAS J. BURKE, CHC, U. S. Navy

## RECESSIONAL

### MUSIC

Twelfth Naval District Band  
Chief Warrant Officer H. E. HUDDLESTON, U. S. Navy, Conducting

## PLATFORM PARTY

### First Row (left to right)

Captain Henry F. Lloyd, U. S. Navy  
Deputy Superintendent

Mr. Knut Orre  
Consul General of Norway

Colonel Vernon G. Gilbert, U. S. Army  
Acting Commanding General, Combat Development  
Command Experimental Command

Mr. Do Soon Chung  
Consul General of Korea

Colonel Robert Baird, U. S. Marine Corps  
Marine Corps Air Reserve Training Detachment, NAS Alameda

Mr. Pierre Asselin  
Consul General of Canada

Rear Admiral Christopher C. Knapp, U. S. Coast Guard  
Commander, Twelfth Coast Guard District

Dean Robert F. Rinehart  
Academic Dean

The Honorable Paul H. Nitze  
Secretary of the Navy

Rear Admiral Edward J. O'Donnell, U. S. Navy  
Superintendent, Naval Postgraduate School

Vice Admiral Earle W. Mills, U. S. Navy (Ret.)

Rear Admiral John McN. Taylor, U. S. Navy  
Commander, Western Sea Frontier

Brigadier General Maurice F. Casey, U. S. Air Force  
Commander, 1501st Air Transport Wing, Travis Air Force Base

Mr. Renato A. Urquiola  
Consul General of the Philippines

Rear Admiral William R. Irvin, U. S. Navy  
Commander, MSTS, Pacific Area

Mr. Kenya Iwasaki  
Senior Consul, Japan

Captain J. C. Woelfel, U. S. Navy (Ret.)

Captain James J. McMullan, U. S. Navy  
Executive Assistant to the Director of Programs

Dean Roy S. Glasgow  
Dean Emeritus

Captain John W. Murph, U. S. Navy  
Director of Programs

### Second Row (left to right)

Captain Thomas J. Burke, CHC, U. S. Navy  
Chaplain, Naval Postgraduate School

Dean Brooks J. Lockhart  
Dean of Admissions

Captain Richard O. Devine, U. S. Navy  
Officer in Charge, Naval Auxiliary Landing Field

Dean Wilbert F. Koehler  
Dean of Programs

Professor James M. Fremgen  
Department of Business Administration and Economics

Professor Robert E. Newton  
Department of Mechanical Engineering

Professor George J. Haltiner  
Department of Meteorology and Oceanography

Professor Jack R. Borsting  
Department of Operations Analysis

Professor Eugene C. Crittenden, Jr.  
Department of Physics

Professor Charles H. Rothauge  
Department of Electrical Engineering

Professor Gilbert F. Kinney  
Department of Material Science and Chemistry

Professor Richard W. Bell  
Department of Aeronautics

Professor W. Randolph Church  
Department of Mathematics

Commander Carl C. Schmuck, U. S. Navy  
Department of Naval Warfare

Professor Emmett F. O'Neil  
Department of Government and Humanities

Dean Carl E. Menneken  
Dean of Research Administration

Captain William A. Pitcher, U. S. Navy  
Director of Administrative and Logistic Services

Dean Lawrence E. Kinsler  
Dean of Curricula

Commander Boone C. Taylor, U. S. Navy  
Special Assistant to Director of Programs

Captain Samuel D. Chambers, U. S. Naval Reserve  
Chaplain, Naval Postgraduate School



## Recipients of Distinguished Professor Medallion

Professor G. ROBERT GIET  
Professor Emeritus, Department of Electrical Engineering

Professor WENDELL M. COATES  
Department of Aeronautics

Professor WILLIAM D. DUTHIE  
Department of Meteorology and Oceanography

Professor AUSTIN R. FREY \*  
Department of Physics

Professor A. BOYD MEWBORN  
Department of Mathematics

The accolade, Distinguished Professor, is an honor bestowed in recognition of sustained outstanding academic service in the accomplishment of the mission of the United States Naval Postgraduate School

## Recipient of the Captain J. C. Woelfel Award

Lieutenant Commander SEBASTIAN P. PASSANTINO, U. S. Navy

## Recipient of the Mewborn Student Research Award

Lieutenant Commander ROBERT K. SPARKES, Royal Canadian Navy

## U. S. Naval Postgraduate School Curricular Officers

Commander ROBERT S. HUTCHES, U. S. Navy  
Curricular Officer of Aeronautical Engineering Programs

Commander ALBERT F. SHIMMEL, U. S. Navy  
Curricular Officer of Electronics and Communications Engineering Programs

Commander MARK HOPKINS, Jr., U. S. Navy  
Curricular Officer of Ordnance Engineering Programs

Commander EUGENE M. HENRY, U. S. Navy  
Curricular Officer of Naval Engineering Programs

Commander RICHARD S. DOWNEY, U. S. Navy  
Curricular Officer of Environmental Sciences Programs

Captain FLETCHER H. BURNHAM, U. S. Navy  
Curricular Officer of Naval Management and Operations Analysis Programs

Commander ROBERT E. SHELDON, U. S. Navy  
Curricular Officer of Engineering Science Programs

Commander JOHN DICK, U. S. Navy  
Curricular Officer of General Line and Baccalaureate Programs

\* On leave of absence

# GRADUATES

Those officers whose names are preceded by a \* are being given their degrees in absentia

## Diplomas of Completion

### Engineering Science

FRANCIS J. ALMBERG, LCDR, USN

DANIEL T. COUGHLIN, Jr., LT, USN

CARL W. GREGORY, LT, USN

OREN D. JOHNSON, LCDR, USN

ROBERT R. KORNEGAY, LT, USN

EVERETTE K. LOVE, Jr., LTJG, USNR

JOHN M. McNABB, LT, USN

GEORGE E. RUCKERSFELDT, LT, USN

### Technical

FRANCIS E. GLASER, LT, USN

\*DAVID A. KRATCH, LCDR, USN

JOHN F. NEISH, LT, USN

JAMES W. NEWCOMB, Jr., LCDR, USN

\*ELMER C. SCHONEMAN, LT, USN

ROBERT J. VOLLMER, CDR, USN

---

### Bachelor of Arts

RONALD N. ARTIM, LT, USN

JACKIE K. ASHMORE, CDR, USN

JOHN F. CALHOUN, LT, USN

HENRY C. CANTLION, LCDR, USN

\*FRANCIS W. ENGLISH, Jr., LCDR, USN

JAMES W. HARRIS, LCDR, USN

RONALD L. HELMS, LCDR, USN

MICHAEL G. HOFF, LT, USN

HERBERT P. HUNTER, LCDR, USN

FREDERICK W. LAWLER, LCDR, USN

\*HERBERT S. MELTZER, LCDR, USN

ERNEST M. MOORE, Jr., LCDR, USN

BERNARD J. O'ROURKE, LCDR, USN

ROBERT L. ROBINSON, LCDR, USN

\*FRANK P. SCOTT, LCDR, USN

ROBERT W. SPENCER, CDR, USN

MERLE A. STEWART, Jr., LCDR, USN

MICHAEL D. TROUT, LT, USN

MAX W. WAKELAND, LCDR, USN

## Bachelor of Science

DEAN A. ALBOWICH, LT, USN	STUART T. MEREDITH, LCDR, USN
ERNS M. ANDERSON, LCDR, USN	JERRY L. MITCHELL, LCDR, USN
HOWELL D. AVERYT, LCDR, USN	PETER M. MORIARTY, CDR, USN
SALLY BOSTWICK, LT, USN	ROBERT P. NICOLLS, LT, USN
SHELBY V. T. CLARK, LCDR, USN	WILLIAM T. OWESNEY, LCDR, USN
JOHNNY L. CLOUSE, LT, USN	JOHN W. PATTERSON, LT, USN
DONALD V. DAVIS, LCDR, USN	JAMES W. PIGMAN, LT, USNR
*THOMAS W. ENTWISTLE, Jr., LT, USN	JOHN W. ROBERTS, LCDR, USN
*PETER K. FITZWILLIAM, LCDR, USN	GRANT A. SHARP, LT, USN
GARY E. HAKANSON, LT, USN	JOHN F. SICKMAN, Jr., LT, USN
MICHAEL E. JACKETS, LCDR, USN	JAMES M. SMYTH, CDR, USN
WERNER H. JESSEN, LT, USN	LOUIS O. STACY, Jr., LT, USN
BUDDY C. JOHNSTON, LT, USN	JOHN K. VERSER, LCDR, USN
HAROLD L. JONES, LT, USN	ALLAN P. WEINTRAUB, LCDR, USN
DAVID R. MASTERS, LT, USN	CARL I. WUEST, CDR, USN
HARRY L. MAY, LCDR, USN	

## Bachelor of Science in Aeronautical Engineering

DONALD D. BERGMAN, CAPT, USMC	ERNEST J. EHLERS, LT, USN
CHARLES L. PHILLIPS, MAJ, USMC	WAYNE J. HALEY, LT, USN
ROBERT H. STRAND, CAPT, USMC	JOHN W. HAWTHORNE, LT, USN
VERNON C. BLOCH, LT, USN	*PHILLIP S. HOWARD, LT, USN
*WILLIAM C. CHRISTENSON, LT, USN	DONALD G. KLEIN, LT, USN
KENT R. CLARK, LT, USN	ROBERT W. LOGIE, LT, USN
THOMAS A. CLIFT, LT, USN	RICHARD E. LOVEJOY, LT, USN
GEORGE K. COYNE, Jr., LT, USN	LEO A. LUKENAS, LT, USN
JAMES V. DAVIS, LT, USN	*WILLIAM F. MACAULEY, LT, USN
*WALTER J. DAVIS, Jr., LT, USN	JAMES P. MEHL, CDR, USN



## Bachelor of Science in Aeronautical Engineering (Continued)

LAWRENCE C. PIZINGER, LT, USN

WAYNE E. PULLING, LT, USN

LAWRENCE R. REID, Jr., LT, USN

DAVID D. SULLIVAN, LT, USN

\*THOMAS L. WASMUND, LT, USN

EDWARD R. WAY, LCDR, USN

BRADFORD W. WELLES, LT, USN

## Bachelor of Science in Communications Engineering

JOHN R. HAY, LT, USCG

MICHAEL R. JOHNSON, LT, USCG

ROGER L. BERG, LT, USN

EUGENE S. BURROUGHS, III, LT, USN

WILL A. BUTZ, LT, USN

DONALD U. CALVIN, LT, USN

WALDO L. HEASLEY, LCDR, USN

WILLIAM H. KELLY, LT, USN

RONALD J. McAFEE, LT, USN

ROBERT W. PEACHER, LCDR, USN

JERRY W. SACTHJEN, LCDR, USN

THOMAS S. ULDRICK, LT, USNR

LAURENCE W. WILSON, LT, USN

RONALD W. WRIGHT, CAPT, USMC

## Bachelor of Science in Electrical Engineering

GENE E. BRENNAN, CAPT, USMC

ANTHONY W. STREMIC, CAPT, USMC

CLIFTON E. BANTA, LT, USN

CHARLES E. CHRISTOPHER, LT, USN

THOMAS J. DEEVY, LT, USN

GEORGE M. ELLIOTT, LT, USN

DAVID E. GORDON, LCDR, USN

GERALD N. GALSTAN, LT, USN

DRAKE A. HOFFMAN, LT, USN

GUY M. HOUSTON, LT, USN

HARUO KATO, LCDR, USN

KENNETH A. MacGILLIVRAY, LT, USN

FRANCIS X. MUNGER, LT, USN

BRUCE D. NORDWALL, LT, USN

ROBERT G. OLIVER, LT, USN

DAVID F. PARRISH, LT, USN

WILLIAM M. PITT, LT, USN

ROBERT E. RUMNEY, LT, USN

WALTER J. SCHUTZ, CDR, USN

MARTIN STAIGER, LT, USN

JAMES J. THOMPSON, CDR, USN

RONALD C. TROSSBACH, LT, USN

## Bachelor of Science in Engineering Electronics

ALTON L. AMIDON, CAPT, USMC

JERRY M. BYRD, CAPT, USMCR

ROY M. GULICK, Jr., CAPT, USMC

RICHARD C. REYNOLDS, CAPT, USMC

## Bachelor of Science in Engineering Electronics (Continued)

GLEN SANFORD, MAJ, USMC	KENNETH L. HINSEN, CDR, USN
GRANT D. WRIGHT, CAPT, USMC	LOUIS B. MACKIN, Jr. LCDR, USN
ROBERT H. CASSIS, Jr., LT, USCG	KENNETH F. MITCHELL, LT, USN
JAMES A. HALLOCK, Jr., LT, USCG	FREDERIC I. MORROW, LT, USN
WILLIAM H. HAYES, Jr., LT, USCG	RICHARD A. MOZIER, LCDR, USN
RICHARD J. BOYD, LT, USNR	CHARLES T. PHILLIPS, CDR, USN
DENNIS W. FERM, LCDR, USNR	JAMES R. SEELEY, LT, USN
ALBERT L. GRIGGS, Jr., LT, USNR	HANS C. SMITH-SIVERTSEN, LCDR Royal Norwegian Navy
LORREN G. HARPER, CDR, USN	RALPH H. WEINTRAUB, LT, USNR

## Bachelor of Science in Mechanical Engineering

*DAVID J. KNORR, LT, USN	ARNOLD C. RISTAD, LT, USNR
ROBERT S. MALONE, LT, USN	CHARLES A. SELLGREN, LT, USN
DAVID L. MARES, LT, USN	PAUL F. SIEBEKING, Jr., LT, USN
A. GREGORY RESCH, LT, USNR	WILSON E. SOUTHERN, LCDR, USN

## Bachelor of Science in Meteorology

CORINGTON A. ALEXANDER, Jr., LT, USNR	JOHN J. HIGGINSON, LCDR, USN
DANIEL J. BELLAY, LT, USN	ROBERT M. IRVIN, LT, USN
ROBERT R. CARON, LCDR, USN	ROBERT A. LINA, LCDR, USN
JOHN M. CURREY, LT, USN	RALPH L. LOVELESS, LT, USNR
RICHARD T. GUNDERMANN, LT, USN	FRANCIS X. PICHER, Jr., LT, USN

## Bachelor of Science in Physics

*WILLIAM J. BIRD CAPT, USA	*MICHAEL F. HAYES, LCDR, USN
RONALD H. SMILEY, MAJ, USA	JAMES M. McCULLOCH, LT, USN
ARNOLD R. BATTAGLINI, LT, USN	REECE W. STEINER, LT, USNR
EDWARD M. CLUNE, LT, USN	GENE A. STROMMEN, LCDR, USN
DANIEL P. GARVEY, LT, USNR	

## Master of Science

THOMAS H. GAINER, Jr., LT, USN

WALTER H. GLENN, LT, USN

JAMES M. HAMRICK, LT, USN

KENDALL G. HINMAN, Jr., LT, USN

WILLIAM J. KENNEDY, Jr., LT, USNR

ROBERT G. KIRK, LT, USN

ROBERT R. PEARSON, LT, USNR

JAMES L. SAWHOOK, LT, USN

WILLIAM G. SCHRAMM, LT, USN

CHARLES J. STUART, Jr., LCDR, USN

LOWELL E. WEBB, LT, USN

## Master of Science in Aeronautical Engineering

RALPH L. BUTTON, LCDR, USN

HARLAN B. BARTELS, LT, USN

EUGENE D. CONNER, LCDR, USN

ROBERT L. CORBETT, LT, USN

ROBERT L. ELICH, LCDR, USN

WILLIAM A. FINN, LCDR, USN

THOMAS GIBBONS, LT, USN

★ROBERT L. HARSHBERGER, LT, USN

RICHARD D. HARTMAN, LCDR, USN

LAWRENCE M. HOGAN, LCDR, USN

RONALD H. JESBERG, LT, USN

LARRY D. KUNKEL, LCDR, USN

• RICHARD A. McCONNEL, LCDR, USN

✓ WENDELL C. RIDDER, LT, USN

★JOHN J. SEEBERGER, LT, USN

DAVID W. STUBBS, LT, USN

CARL R. SUMMERS, LT, USN

DARRELL C. TROUTMAN, LT, USN

## Master of Science in Chemistry

ROBERT C. BEERS, LCDR, USN

THOMAS R. BRETT, LT, USN

• HARVEY A. EIKEL, LT, USN

• JERROLD D. GAMER, LT, USN

• RICHARD D. MORROW, LCDR, USN

JAMES K. POOLE, LT, USN

HAROLD B. RUSSELL, LT, USN

ROBERT K. SPARKES, LCDR  
Royal Canadian Navy

## Master of Science in Materials Science

HUGH M. DAVIS, Jr., LT, USN

• JOHN W. EDGEMOND III, LT, USN

• PARKER B. HORNBECK, LT, USN

LOUIS D. KEIL, LCDR, USN

## Master of Science in Communications Engineering

JOHN E. AMBROSE, CDR, USN

• WILLIAM R. JONES, LT, USN

• HERBERT E. SEGELHORST, LCDR, USN

HUGH L. SHOEMAKER, LT, USN



### Master of Science in Electrical Engineering

ROBERT CHRISTENSEN, LT, USN

ROBERT L. EDIIN, LCDR, USN

JOHN S. FEENEY, Jr., LT, USN

HENRY G. B. HALLAS, LT  
Royal Canadian Navy

CLAIR E. HECKATHORN, LT, USN

STEPHEN JOHNSON, Jr., LT, USN

DAVID S. KELLY, LT, USN

JAY W. LAMB, LT, USN

ALBERT B. LEMANSKI, LT, USN

JERRY M. LOVELESS, LT, USN

JOHN C. McMICHAEL, LT, USN

JOHN A. PAINE, Jr., LT, USN

SEBASTIAN P. PASSANTINO, LCDR, USN

ROBERT H. PIDGEON, LT, USN

E. GRANT REES, LT, USN

TERENCE M. SHORTAL, LT, USN

GEORGE C. SKEZAS, LT, USN

HARRY A. STEELE, Jr., LT, USN

### Master of Science in Engineering Electronics

WILLIAM J. LANNES, III, CAPT, USMC

ALOIS A. SLEPICKA, MAJ, USMC

PHILIP ARCUNI, LCDR, USN

NEIL A. BARRETT, LT  
Royal Canadian Navy

JOHN C. CLINTON, LT, USN

DONALD L. LEICHTWEIS, LT, USN

PAK WON SIM, LT  
Republic of Korea Navy

GLENN L. PALATINI, CDR, USN

CHARLES A. PELLEGRINI, LT, USN

JAMES H. QUINN, LCDR, USN

YUKIO ZAIMA, LCDR  
Japanese Maritime Self-Defense Force

### Master of Science in Mechanical Engineering

STUART F. BALL, Jr., LT, USN

RICHARD E. DAVIES, LT, USN

### Master of Science in Mechanical Engineering (Continued)

MAXIMO S. DURLAO, Jr., LT  
Philippine Navy

HARRY J. HANSEN III, LT, USN

ROBERT M. HYDINGER, LT, USN

YONG SU KIM, LT  
Republic of Korea Navy

JOSEPH W. KOCH, Jr., LT, USN

MICHAEL D. MAYNARD, LT, USN

ROBERT A. RIDDELL, LT, USN

JAMES L. SIMMONS, LT, USN

LOUIS C. TEDESCHI, LT, USN

### Master of Science in Meteorology

PETER S. FERRENTINO, LT, USN

DON D. FRAME, LT, USN

WILLIAM O. KERMAN, Jr., LT, USN

DONALD J. SCHAFF, LCDR, USN

DELVIN L. SCHARDT, LT, USN

FRANCIS J. SCHATZLE, LCDR, USN

## Master of Science in Physical Oceanography

WILLIAM P. DANNER, CDR, USN

VIBERT H. DAVIS, LT, USN

\*JAMES E. HANCOCK, LT, USN

\* JOHN N. HARPER, Jr., LT, USN

DURWARD B. MOMMSEN, Jr., LT, USN

## Master of Science in Operations Research

THOMAS H. ATHEY, CAPT, USMC

RICHARD R. JOHNSON, CAPT, USMC

\* RICHARD S. ROBERTSON, CAPT, USMC

NEIL R. VANLEEUVEN, CAPT, USMC

ROBERT C. BAKER, LCDR, USN

THOMAS M. BURNS, Jr., LT, USN

RICHARD E. DEWINTER, LCDR, USN

JOHN J. DITTRICK, Jr., LT, USN

JOHN N. DONIS, LT, USN

\*CHARLES M. EARNEST, LCDR, USN

EPHRAIM P. HOLMES, Jr., LT, USN

KENNETH P. HOLTEL, LT, USN

\* ROBERT T. ISAACSON, LT, USN

THEODORE G. KRUMM, Jr., LT, USN

GEORGE M. LANMAN, LCDR, USN

PETER M. MALONEY, LCDR, USN

\* OWEN C. MARTIN, Jr., LT, USN

RICHARD McKEE, LT, USNR

DAVID L. McMICHAEL, LT, USN

VICTOR J. MONTE LEON, LT, USN

\* PETER E. PATACSIL, LT, USN

JAMES C. RYDZEWSKI, LCDR, USN

\* STEPHEN V. SNYDER, LT, USN

\*DAVID L. STANFORD, LT, USN

JACK A. WHITE, LCDR, USN

## Master of Science in Physics

SAMUEL L. EURE, CAPT, USA

ROSS A. GAGLIANO, CAPT, USA

JOHN P. JOHNSON III, CAPT, USA

DONALD C. LITTLE, Jr., MAJ, USA

RAYMOND J. NELSON, CAPT, USA

MILES T. BARNETT, Jr., 1/LT, USAF

RANDALL C. STEPHENS, 1/LT, USAF

ROBERT A. ALLEN, LT, USN

KENNETH H. BAUER, LT, USNR

RUDOLPH T. A. BREDDERMAN, LCDR, USN

\* RICHARD R. COLLINS, LT, USN

WILLIAM J. CUNNEEN, LT, USN

\* DAVID B. DICKMANN, LT, USN

GERALD N. GALSTAN, LT, USN

RICHARD E. HOLLOWAY, LT, USN

WILLIAM L. JOHNSON, LT, USNR

\* ROBERT J. PRATHER, LT, USN

REX H. RAMBO, LT, USNR

RONALD A. RESARE, LT, USN

LESLIE V. SHAFFER II, LT, USNR

## Master of Science in Physics (Continued)

JAMES E. SHEEHAN, LT, USN

JAMES C. VOHR, LT, USN

WILLIAM C. SONES, LCDR, USN

## Aeronautical Engineer

RICHARD H. ECKERT, CDR, USN

WILLIAM P. MORTENSON, LT, USN

JOHN E. BARTOCCI, LCDR, USN

JOHN C. MURPHY, LT, USN

ROBERT K. BRUMWELL, LT, USN

HENRY L. SEARLE, CAPT, USMC

## Doctor of Philosophy

JOHN W. R. POPE, Jr., LCDR, USN



## THE U. S. 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 Director of Programs (military) and a Dean of Programs (civilian). The reorganization in no way changed the curricula of courses offered, but achieves unity of policy and gives emphasis to the educational programs required of the Navy.

