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Naval Postgraduate School Graduation Exercises / Class of June 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

16 JUNE 1972

AT FOUR O'CLOCK

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U.S. Naval Postgraduate School
Monterey, California 93940

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A. SCOTT GOODFELLOW

Rear Admiral, United States Navy

Provost

MILTON U. CLAUSER

Doctor of Philosophy

Chief of Staff

JOHN E. McQUARY

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 meet needs of the Navy in Education by conducting advanced programs at Monterey, administering programs at civilian universities, and conducting other technical and professional programs where uniquely qualified. In support of above, to foster and encourage a research program in order to sustain academic excellence."

The Rear Admiral John Jay Schieffelin Award for Excellence in Teaching

The Rear Admiral John Jay Schieffelin Award for Excellence in Teaching is presented each June commencement exercise to the faculty member most highly regarded as a teacher by his colleagues, students and alumni. The presentation consists of a cash award made possible through a grant to the Naval Postgraduate School Foundation by Mr. William Schieffelin of New York, brother of the Admiral.

Admiral Schieffelin, a veteran of both wars, is designated Naval Aviator No. 124, and was awarded the Navy Cross for Heroic action in World War I.

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

The Honorable FRANK SANDERS
Under Secretary of the Navy

DISTINGUISHED PROFESSOR MEDALLIONS

EXCELLENCE IN TEACHING AWARD

PRESENTATION OF NAVY LEAGUE OF MONTEREY AWARD FOR ACADEMIC IMPROVEMENT

PRESENTATION OF NAVAL ELECTRONICS SYSTEMS COMMAND AWARD IN ELECTRICAL ENGINEERING

PRESENTATION OF NAVAL SHIP SYSTEMS COMMAND AWARD

PRESENTATION OF MEWBORN STUDENT RESEARCH AWARD

PRESENTATION OF CAPTAIN J.C. WOELFEL AWARD

PRESENTATION OF ADMIRAL WILLIAM ADGER MOFFETT AWARD

ANNOUNCEMENT OF DEGREES

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

PRESENTATION OF CANDIDATES BY DEPARTMENT CHAIRMEN

BENEDICTION

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

RECESSIONAL

MUSIC

TWELFTH NAVAL DISTRICT BAND
WO JOHN INGRAM, USN, Director

PLATFORM PARTY

First Row (left to right)

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

Colonel Paul L. Siegmund
United States Marine Corps

Colonel Albert J. Kaehn, Jr.
United States Air Force

Captain John J. Fehrenbacher
United States Coast Guard

Major General Harold G. Moore
United States Army

Provost Milton U. Clauser
Provost, Naval Postgraduate School

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

The Honorable Frank Sanders
Under Secretary of the Navy

Admiral James S. Russell,
U.S. Navy (Ret)
Representative, Pt. Lobos American Institute
of Aeronautics and Astronautics

Mr. Akbar Ahmadi
Representative, Consul General, Iran

Mrs. John M. Herbst
Representative, Monterey Peninsula
Council of the Navy League

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

Second Row

Professor Otto Heinz
Department of Physics

Professor George J. Haltiner
Department of Meteorology

Professor Richard W. Bell
Department of Aeronautics

Professor Eugene C. Haderlie
Department of Oceanography

Professor Robert E. Newton
Department of Mechanical
Engineering

Professor Robert E. Gaskell
Department of Mathematics

Professor Sydney R. Parker
Department of Electrical
Engineering

Dean Brooks J. Lockhart
Dean of Curricula

Professor John W. Schultz
Department of Material Science
and Chemistry

Professor Jack R. Borsting
Department of Operations Research
and Administrative Sciences

Professor Boyd F. Huff
Department of Government and
Humanities

awards

Recipient of the Navy League of Monterey Award for Academic Improvement

Commander Norio B. Endo, U.S. Navy

Recipient of the Naval Electronic Systems Command Award in Electrical Engineering

Lieutenant William M. Donnelly, U.S. Navy

Recipient of the Naval Ship Systems Command Award in Naval Engineering

Lieutenant Frank K. McGrath, U.S. Navy

Recipient of the Professor W.R. Church Award

Lieutenant Commander Robert S. Owen, U.S. Navy

Lieutenant Commander Harald G.K. Ziehms, Federal German Navy

Recipient of the Mewborn Student Research Award

Lieutenant Commander Edward J. Harrison, Jr., U.S. Navy

Lieutenant Abdollah Zargary, Imperial Iranian Navy

Recipient of the Captain J.C. Woelfel Award

Lieutenant Commander Jon P. Groff, U.S. Navy

Recipient of the Admiral William Adger Moffett Award

Lieutenant Peter N. Rodrick, U.S. Navy

Naval Postgraduate School Department Chairmen

Professor GEORGE J. HALTNER
Meteorology

Professor SYDNEY R. PARKER
Electrical Engineering

Professor ROBERT E. GASKELL
Mathematics

Professor JOHN H. DUFFIN
Material Science and Chemistry

Professor JACK R. BORSTING
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

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.

Diploma of Completion

Engineering Science

*LUGO, Frank J., LCDR, USN

Ordnance Engineering

*MEEK, Calvin L., LT, USN

Bachelor of Arts with Major in Government/International Relations

ATHANSON, John W., LT, USN

BANKSON, Rodney A., LCDR, USN

BATTERBY, Robert E., LCDR, USN

*BLUM, Brandon B., CDR, USN

BOND, William D., LT, USNR

BROOKS, Charles E. LCDR, USN

BURNS, William F., LCDR, USNR

BURTCH, Patrick J., LT, USN

CLARK, Barbara L., LT, USN

*CLEMINGER, John W., LCDR, USN

DAGE, Jerry D., CDR, USN

DAVIS, Robert J., CDR, USNR

DE ST CROIX, Lawrence E., LT, USN

DILL, Donald L., LCDR, USN

DINGER, Robert S., Jr., LT, USN

*EDWARDS, Robert C., LT, USN

FOWLER, George M., CDR, USNR

HANNA, Donald V., LCDR, USN

*HINDS, James J., LT, USN

HUSHAW, Walter D., CDR, USNR

*JACKSON, Milton, Jr., LCDR, USN

JOHNSON, Richard L., LCDR, USN

KAUP, Robert C., LCDR, USN

LECROPANE, Richard R., CDR, USNR

LYNCH, Edward T., Jr., LCDR, USN

*LOPEZ, Thomas J., LT, USN

*MACOMBER, David B., LCDR, USN

MARR, William T., LCDR, USN

McCALLUM, James A., LCDR, USN

NORRIS, Lewis H., LT, USN

OLSEN, Kenneth A., LCDR, USN

ONSLOW, Vincent L., LCDR, USN

PEREZ, Demetrio J., LCDR, USN

QUERY, William C., Jr., CDR, USNR

STEPHENSON, Robert F., LCDR, USN

STOUTAMIRE, Stoney L., LT, USN

STRONG, Bradley S., LT, USN

VOLD, Almer C., LCDR, USN

Bachelor of Science with Major in Business Administration

BRATSCH, Roger D.J., LT, USN

BRIGGS, Robert J., LT, USN

BRYANT, James H., LCDR, USN

ERMIS, Leroy C., CDR, USN

*FIELDS, Billy J., LCDR, USN

FOX, Robert E., LT, USN

HOLLAND, Donald R., LT, USN

HOLIWAY, Weldon Y., LTJG, USN

HUNEYCUTT, Herbert K., LCDR, USN

RASMUSSEN, Paul D., LCDR, USN

SCHEWE, Norman L., LT, USN

VALENTY, Patrick P., LT, USN

Bachelor of Science in Operations Research

BIXLER, Paul W., LT, USN
CUMMINS, Clarence M., CDR, USN
FREAS, Henry E., LT, USN
PRICE, Dennis J., CDR, USN

Bachelor of Science in Chemistry

WARNER, Kenton D., LT, USN

Bachelor of Science with Major in Computer Science

ADAMS, Robert C., CDR, USNR
DEARING, Paul W., CDR, USNR
*GRAHAM, Robert E., CDR, USNR
MELLBERG, Kenneth E., LCDR, USNR
PAWLAS, Robert W., LT, USN
SECADES, Vincent C., LCDR, USN

Bachelor of Science in Engineering Science

AMANN, Lawrence S., LT, USN
BAGGETT, Donald W., LT, USNR
BOCK, Carl F., LT, USN
BOYLE, Patrick L., LCDR, USN
CRANE, Stephen H., LT, USN
CROWDER, Kenneth L., LCDR, USN
MADDOCKS, Ronald J., LCDR, USN
MARSYLA, Edward G., LT, USNR
MAUGERI, Peter J., LT, USN
NEWMAN, Roger L., LCDR, USN
PRATER, James, CDR, USNR
RASHLEY, George E., CDR, USNR
*SCHMIDT, Clifford B., LT, USN
WARREN, Fred V., LT, USN
WEBBER, Michael J., LCDR, USN
WILEY, Armando A., LT, USN

Bachelor of Science in Electrical Engineering

*BALL, Robert H., LT, USN
BOBADILLA, Juan M., LT, Spanish Navy
BURGESS, Larry L., LT, USN
CANTALAPIEDRA, Julio, LT, Spanish Navy
CLARK, Thomas A., LT, USN
GARAU, Pedro J., LT, Spanish Navy
HARRIMAN, Robert B., LCDR, USN
KAISER, David G., LCDR, USN
LEE, David C., LT, USNR
MOGOLLON, Manuel A., LTJG, Colombian Navy
MONTERO, Angel J., LT, Spanish Navy
*NUALPRASERT, Boon J. Rit, LCDR, Royal Thai Navy
PRICKETT, Frederick G., LT, USN
RODRIGUEZ, Francisco, LT, Spanish Navy
SADLER, Clint D., LT, USN
*SAENZ, Juan, LTJG, Ecuadorian Navy
WAGNER, Tod W., LT, USN
WATKINS, Paul V., Jr., LT, USN

Bachelor of Science with Major in Mathematics

BOWDEN, Newman F., Jr., LT, USNR
FRICK, Frederick M., LCDR, USN
GILFILLAN, Larry G., LT, USNR
SAYLOR, William H., LT, USN

Bachelor of Science in Mechanical Engineering

CRABBE, Douglas V., Jr., LCDR, USN
McABEE, John T., LCDR, USN
RUAN, Miguel G., LCDR, Colombian Navy
TOPOROSKI, Daniel M., LT, USN
URQUHART, Wiley B. III, LT, USNR

Bachelor of Science with Major in Oceanography

BILLINGS, Leland R., LT, USN
*HASENBAUER, Richard D., LT, USN
*HARSANYI, William S., LT, USN
SHEWELL, Daniel J., LT, USN
WIANT, Jeffrie E., Jr., LT, USN

Master of Science in Aeronautical Engineering

*ANDERSON, Terrance E., LT, USN
BAILEY, David L., LT, USN
COSTELLO, John P., LCDR, USN
ENDO, Norio B., CDR, USN
FREDERIKSEN, John T., LT, USN
HEATH, Donald E., ENS, USN
HOUCK, Timothy L., ENS, USN
HYDE, Joseph G., LT, USN
IVERSON, Michael M., LCDR, USN
MARGERUM, Gordon W., LCDR, USN
*MORGENFELD, Thomas A., LT, USN
OLMSTEAD, Allen J., Jr., LT, USN
PEARSON, Larry G., LT, USN
SAUL, Carlton W., LT, USN
SCHLEIN, Paul B., LT, USN
TEICHGRABER, Walter M., LT, USN

Master of Science in Chemistry

DALE, Charles J., ENS, USN
HOVERMALE, Mark D., ENS, USN
MOON, Raymond L., LTJG, USN

Master of Science in Computer Science

BAHLER, Richard C., MAJ, USMCR
BITTNER, Barry N., LCOL, USMC
CARPENTER, Charles L., Jr., MAJ,
USMC
MOSSLER, Alfred H., CAPT, USMC
ZAVOYSKI, Eugenia M., MAJ,
USMCR
ASHFORD, Richard F., Jr., LT, USN
*BARNES, John W., Jr., LT, USN
BLANCHARD, Robert C., LT, USN
BREWER, Carl C., LT, USN
CARDEN, Robert J., ENS, USN
HYDINGER, John P., LT, USN
JOHNSON, Robert L., Jr., LT, USN
LEVIN, Kenneth, LT, USN
MALIG, Romeo L., LTJG, Philippine
Navy
McGRUTHER, Gordon T., LCDR, USN
POGGI, Steven N., LT, USN
RICKELMAN, John H., LCDR, USN
*SCANGO, Patsy D., LT, USN
SPRAGUE, Jay W., LT, USN
STOWELL, Ralph H., Jr., LCDR, USN
STUBBS, Frederick M., LT, USN

Master of Science in Electrical Engineering

VENCE, Robert L., Jr., LCDR, USCG
ALLEN, James W., LCDR, USN
BOBADILLA, Juan M., LT, Spanish
Navy
BURMAN, George A., LT, USN
CANTALAPIEDRA, Julio, LT, Spanish
Navy
DAVISON, Charles A., LT, USN
DONNELLY, William M., LT, USN
GARAU, Pedro J., LT, Spanish Navy
*GREENE, James B., Jr., USN
*GROSS, Charles N., LCDR, USN
HOUGH, James R., LT, USN
*JENNERS, Joseph A., LT, USN
KELLE, Karl-Heinz F., LT, Federal
German Navy
*KENNEDY, Edward E., LCDR, USN
LAYL, Jerry N., LT, USN
MARGOLIS, Sheldon L., LT, USN
McINTOSH, Clarence V., Jr., LT,
USN
MECK, Norman C., LT, USN
MONTERO, Angel J., LT, Spanish
Navy
NITTLE, Jeremy J., LT, USN
OXENRIDER, Eugene L., LT, USN
PHILLIPS, William S., LT, USN
RODRIGUEZ, Francisco, LT, Spanish
Navy
ROMERO, Edgar, LTJG, Colombian
Navy
SWIENTEK, Francis M., LT, USN
TODARO, Richard C., LCDR, USN
WALZ, Victor M., ENS, USN

Master of Science with Major in Mathematics

EDER, William R., ENS, USNR
ENDERLE, John P., ENS, USN
*OWEN, Robert S., LCDR, USN
PROFFITT, James D., ENS, USNR

Master of Science in Mechanical Engineering

BAKSHSHANDEHPOUR, Manochehr,
LT, Imperial Iranian Navy
*CHAMPAGNE, Gerald E., ENS, USN
*FITTS, Joel R., LT, USN
FUNKE, Richard H., ENS, USN
*HATLEBERG, Clarence J., LT, USN
HENDERSHOT, Robert P., ENS, USN
HORNE, Lance C., LT, USN
LONG, Theodore W., ENS, USN
McGRATH, Frank K., LT, USN
NEMETH, Edward P., ENS, USNR
O'CONNOR, Kip, LCDR, USN
PERKINSON, Brian T., LCDR, USN
PLOEGER, Robert B., LT, USN
SCHAPIRA, Joel R., ENS, USN
STUHLMAN, Robert H., ENS, USN
WESSMAN, Ernest E., ENS, USN
ZARGARY, Abdollah, LT, Imperial
Iranian Navy

Master of Science in Meteorology

SMITH, Craig H., ENS, USN

Master of Science in Oceanography

*BELSER, Richard B. III, LCDR, USN
*BOOTH, Gregory S., LT, USN
SMITH, Terry D., LT, USN
WHITSON, William F., ENS, USN

Master of Science in Physics

BARR, Douglas H., CPT, USA
FARRIS, Ivan R., MAJ, USA
GRAY, Frederic C., CPT, USA
HARRIS, William D., MAJ, USA
KUNIHIRO, Dean M., CPT, USA
NORTON, Donald W., MAJ, USA
RAYMOND, William M., MAJ, USA
STERBENZ, Henry W., Jr., CPT, USA
TANKOVICH, James A., CPT, USA
YAGER, Charles S., Jr., CPT, USA
FAUTH, Herbert C., LT, USN
HOGAN, Raymond J., ENS, USN
LANE, Christopher K., ENS, USN
LANE, Thomas F., LT, USN
MACKIN, Jere G., LCDR, USN
MIDGETT, Joe C., ENS, USN
MORGAN, John H., II, LT, USN
O'SHEA, Michael G., LT, USN
VAJDA, Thomas C., LT, USN
*VERA, Enrique, LCDR, Chilean Navy
WEBER, Steven D., LT, USN
WELSH, Richard G.T., LT, USN

Master of Science in Computer Systems Management

BAUMHOFER, William J., LCDR, USN
BIXLER, Michael B., LT, USN
BROWN, Harry J., Jr., LT, USN
BUSS, Richard H., LCDR, USN
CARTER, Floyd W., Jr., LCDR, USN
GILBERT, James C., CDR, USN
GOFF, Jerry D., LT, USNR
*HEATH, David M., LCDR, USN
LUSK, James B., Jr., LCDR, USN
MAHELONA, George L., LCDR, USN

Master of Science in Computer Systems Management (cont.)

*MALONEY, John J., CDR, USN
PERKINS, Robert C., LTJG, USNR
PERRY, "J" Stephen, LCDR, USN
SCHENONE, Bruno H., LTJG,
Peruvian Navy
SCHMAUSS, Henry W., Jr., LT, USN
SCHNEIDER, Larry J., LTJG, USN
SHELDON, John T., LT, USN
STEPHENSON, Graves B., LCDR,
USN
WALKER, Joseph S., IV, LT, USN
WETZEL, Kenneth R., LT, USN

Master of Science in Management

AMEY, David G., CAPT, USMC
BOWER, James W., MAJ, USMC
HITCHENS, Alan W., CAPT, USMC
*KEY, John H., CAPT, USMC
LOHMAN, Charles M., CAPT, USMC
MULCAHY, Robert D., MAJ, USMC
SAENZ, Ramiro, MAJ, USMC
WEEDE, Richard D., MAJ, USMC
BLANCHARD, William H., LT, USCG
CARBONE, Anthony R., LT, USCG
CHISWELL, Benjamin M. III, LT,
USCG
COLLINS, Russell J., LT, USCG
COOK, Richard B., LT, USCG
FETTERS, James A., LT, USCG
GEMMELL, David S., LCDR, USCG
*MAHAN, Neal, LCDR, USCG
McCAHILL, James F., Jr., LCDR,
USCG
PESCHEL, Rudy K., LCDR, USCG
*PHILPOTT, Robert J., LT, USCG
PIERSON, John A., LT, USCG
SOLTYS, Anthony J., LCDR, USCG
VODEN, John C., LT, USCG
AUCOIN, James B., CDR, USN
BECKMAN, Robert J., ENS, USN
BENEDIKTSSON, Philip W.,
CDR, USN
BISHOP, David K., LCDR, USN
BLUMBERG, Lawrence B., LCDR, USN
BRADT, Douglas J., LT, USN
BURNS, John J. LCDR, USN
BURNS, John M., Jr., LCDR, USN
*CABOT, Alan S., CDR, USN
CAMPBELL, Guy R., III, LCDR, USN
COOK, Walter T., LCDR, USN
DANTONE, Joseph J., Jr., LT, USN
DELANEY, John R., CDR, USN
DONNELLY, John T., LT, USN
EVERHART, Guy F., LT, USN
FITZGERALD, Malcolm E., LCDR,
USNR
*FOLSOM, Benjamin F., LT, USN
FULTON, William J., LCDR, USN
GERDEL, David H., LCDR, USN
GOHMANN, Barton C., LT, USN
GROSS, Charles N., LCDR, USN
GURCAN, Erhan, CDR, Turkish Navy
*HALL, Royce H., Jr., LCDR, USN
HAMMOND, Leroy L., CDR, USN
HARMON, William H., LCDR, USN
HARRISON, Gilbert A., LT, USN
HAYES, Robert C., LCDR, USN
*HEPHNER, Patrick J., LT, USN
HESS, Gerald R., LT, USN
HINKLE, Otis R., CDR, USN
HORNOR, Ronald D., LT, USN

Master of Science in Management (cont.)

JORDAN, James F., LCDR, USN
KAY, William H., Jr., LCDR, USN
KELLEY, Thomas G., LCDR, USN
KICKHOFEL, George C., LT, USN
KORHONEN, Kenneth R., LCDR, USN
KRAFT, James N., LT, USN
LANTSBERGER, Robert E., CDR, USN
LARSON, Gary L., LT, USN
LEMKE, Anthony M., LT, USN
LEMOYNE, Irve C., LCDR, USN
LIBBY, Kurt W., LT, USN
*LLOYD, Roger W., LCDR, USN
LONG, Peter A.C., LT, USN
LYNCH, David R., LCDR, USN
MACNEILL, Donald W., LCDR, USN
MALZAHN, Walter G., CDR, USN
McTIGHE, Roger P., Jr., CDR, USN
MOLLET, Robert E., LT, USN
MOORE, Gerrell D., LCDR, USN
MOWERY, Gary W., LCDR, USN
NEEDHAM, William R., LCDR, USN
NELSON, Arthur W., LT, USN
NELSON, Michael F., LT, USNR
NORMAND, Eugene J., CDR, USN
NUNNO, Thomas, LT, USN
NYMAN, Keith O., LT, USN
OLIVIER, Denny R., CDR, USN
PELOT, Kent B., LCDR, USN
PERRO, Michael A., Jr., CDR, USN
PEWETT, Robert H., LT, USN
REED, William H., LCDR, USN
REELITZ, Eric V., LT, USN
RICE, Lloyd K., CDR, USN
RICE, Michael G., LCDR, USN
RIEFLER, George B., CDR, USN
RITCHEY, Glenn W., Jr., LT, USN
ROONEY, James W., LT, USN
SAMFORD, Jack W., LCDR, USN
SANDALL, Vernon P., LTJG, USN
SCHUMANN, James F., CDR, USN
*SEILER, Melvin E., CDR, USN
SHANNON, William N., LCDR, USN
SHERMAN, Myron B., LCDR, USN
SHUGHROU, John J., Jr., CDR, USN
SIXSMITH, Howard T., Jr., LT, USN
SMITH, Wayne A., LCDR, USN
SPADAFORA, William H., LT, USN
STOAKES, Richmond B., LCDR, USN
*TAYLOR, John T., LCDR, USN
TAYLOR, Robert B., LT, USN
THOMAS, Gary B., CDR, USN
TROTTER, Earl C., LT, USNR
WALKER, Harry C., LCDR, USN

Master of Science in Operations Research

HAMMOND, Robert D., LTC, USA
*SCHEIDIG, Robert E., MAJ, USA
*SILVEY, William J., MAJ., USA
*ALTERGOTT, Dennis A., LT, USN
*MINER, John O., LT, USN
*OELMANN, Harlan D., LCDR, USN

Aeronautical Engineer

BOHLEY, Carl M., LCDR, USN McFEELY, Thomas E., LT, USN
 CHALKLEY, Henry G., LT, USN MERRITTS, Michael M., LT, USN
 COBURN, Lewis L., LT, USN TINSTON, William J., Jr., LT, USN
 HERTZLER, Charles M., LT, USN WARREN, Roy D., LCDR, USN
 MARGERUM, Gordon W., LCDR, USN WELLMANN, Donald A., LT, USN

Electrical Engineer

MECK, Norman C., LT, USN VENCE, Robert L., LCDR, USCG

Mechanical Engineer

BAKSHANDEHPOUR, Manochehr, ZARGARY, Abdollah, LT, Imperial
 LT, Imperial Iranian Navy Iranian Navy

Doctor of Philosophy

BRECKON, Richard L., CDR, USN JACKSON, John P., CAPT, USAF
 HARRISON, Edward J., Jr., LCDR, USN

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.

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.



