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Naval Postgraduate School Graduation Exercises / Class of December 1992

Naval Postgraduate School (U.S.)

Monterey, California. Naval Postgraduate School

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NAVAL POSTGRADUATE SCHOOL



GRADUATION EXERCISES

1:00 P.M.
THURSDAY, 17 DECEMBER
1992



**NAVAL POSTGRADUATE SCHOOL
ADMINISTRATION**

**Superintendent
RADM RALPH W. WEST, Jr., USN**

**Provost
DR. HARRISON SHULL**

**Dean of Students and Director of Programs
CAPT ROSS D. BARKER, USN**

**Dean of Faculty
DR. GORDON E. SCHACHER**

**Dean of Computer and Information Services
MR. BARRY A. FREW**

**Dean of Instruction
DR. RICHARD S. ELSTER**

**Dean of Research
DR. PAUL MARTO**

**Director of Military Operations
CAPT ALBERT J. BEGBIE, USN**



REAR ADMIRAL RALPH W. WEST, Jr., USN
Superintendent
Naval Postgraduate School

Rear Admiral Ralph W. West, Jr., graduated from the United States Naval Academy in June 1958 and reported to the destroyer USS JONAS INGRAM (DD 938) for his first sea tour. After attending Submarine School and nuclear power training he served on submarines USS TULLIBEE (SSN 597), USS DANIEL WEBSTER (SSBN 626) and USS SKIPJACK (SSN 585). In June 1967, he reported to the staff of Submarine Squadron FOURTEEN at Holy Loch, Scotland for two years as Material Officer. He then served as Executive Officer of USS POGY (SSN 647) commissioning crew. He commanded USS GURNARD (SSN 662) from May 1973 until May 1976.

He subsequently served on the staff of Submarine Group FIVE in San Diego, California until July 1978 when he was assigned as Senior Member, Nuclear Propulsion Examining Board on the staff of Commander in Chief, U.S. Pacific Fleet.

He commanded Submarine Squadron FIFTEEN in Guam from June 1980 to June 1981. His next assignments were Assistant Chief of Staff for Logistics and then Chief of Staff of the Submarine Force, U.S. Pacific Fleet. After selection to Rear Admiral, he reported in May 1984 as Deputy Director for Operations, National Military Command Center, JCS. In June 1985, Rear Admiral West assumed command of Submarine Group FIVE in San Diego, California, and in January 1987, he was assigned additional duty as Commander, Submarine Force, U.S. Pacific Fleet. Rear Admiral West next served as Director for Pride, Professionalism and Personal Excellence for the Navy for two years. He assumed duties as Superintendent of the Naval Postgraduate School in July 1989.

Rear Admiral West has earned the following medals: Distinguished Service Medal, Defense Superior Service Medal, Legion of Merit (fourth award), Meritorious Service Medal (third award), Navy Commendation Medal (second award), Navy Achievement Medal, and additional unit and service decorations.

Rear Admiral West is married to the former Katheryne Hale of Washington, DC. They have two children, Whitaker and Diana.



**ADMIRAL STANLEY R. ARTHUR
UNITED STATES NAVY**

Admiral Arthur was born in San Diego, California. He entered the U.S. Navy through the Naval Reserve Officer Training Corps (NROTC) Program at Miami University and was commissioned in June 1957.

Designated a Naval Aviator in 1958, he reported to VS-21 and later was a "plank owner" in VS-29. Admiral Arthur attended the U.S. Naval Postgraduate School where he earned a Bachelor of Science Degree in Aeronautical Engineering, followed by a tour of duty with VX-1, as Weapons Project Officer. After a tour on USS BENNINGTON (CVS 20), he reported to VA-55 aboard USS HANCOCK (CVA 19). He then reported to VA-122 as an A-7 Instructor Pilot and Maintenance Officer. Additionally, he became the first Officer in Charge of COMFAIRLEMOORE Weapons Training Center.

In July 1971, he reported to VA-164 as Executive Officer and assumed command a year later while again deployed on USS HANCOCK. During this tour, he completed over 500 combat missions in the A-4 Skyhawk. He then acquired a Master of Science Degree in Administration from George Washington University. Following assignments at the Bureau of Naval Personnel, he reported aboard USS SAN JOSE (AFS 7) as Commanding Officer in July 1976, and assumed command of USS CORAL SEA (CV 43) in June 1978.

Other significant assignments included the staff of the Commander in Chief, U.S. Pacific Fleet, Pearl Harbor, as Assistant Chief of Staff for Plans and Policy with additional duty as Commander, Rapid Deployment Naval Forces and U.S. Naval Forces Central Command; Commander, Carrier Group SEVEN; Director, Aviation Plans and Requirements Division (OP-50); and Director, General Planning and Programming Division (OP-80). Selected for the rank of Vice Admiral in February 1988, he assumed the duties as Deputy Chief of Naval Operations (Logistics).

On 1 December 1990, Admiral Arthur assumed duties as Commander U.S. SEVENTH Fleet and Commander, U.S. Naval Forces Central Command for Operations Desert Shield/Desert Storm. He directed the operations and tactical movements of more than 96,000 Navy and Marine Corps personnel and 130 U.S. Navy and Allied ships, including 6 aircraft carrier battle groups, 2 battleships, 2 hospital ships, 4 minesweepers and numerous combatant and amphibious ships. This represented the largest U.S. naval armada amassed since World War II. On 24 April 1991, he relinquished duties as COMUSNAVCENT and continued duties as Commander, SEVENTH Fleet until his change of command in July 1992. Admiral Arthur assumed current duties as the Vice Chief of Naval Operations on 6 July 1992.

Admiral Arthur has been awarded the Navy Distinguished Service Medal (3 awards), Legion of Merit (4 awards, 1 with Combat "V"), Distinguished Flying Cross (11 awards), the Meritorious Service Medal, individual Air Medal (4 awards), Strike/Flight Air Medal (47 awards); Navy Commendation Medal (2 awards, 1 with Combat "V"), various foreign personal decorations, and additional individual U.S. and foreign service and campaign awards.

Admiral Arthur is married to the former Jennie Lou Mapes of Jackson, Ohio. They have four children; Erin, Brian, Derek, and Brad.

PLATFORM PARTY

FIRST ROW (Left to Right)

Captain John F. Baldwin
 CHC, U.S. Navy
 Command Chaplain
 Naval Postgraduate School

Colonel Gilbert Regan
 U.S. Air Force
 Staff Judge Advocate
 22nd Air Force (VANGIE)
 Travis Air Force Base, California

Colonel Harry W. Peterson
 U.S. Marine Corps
 Commanding Officer
 23rd Marine Regiment
 San Rafael, California

U.S. Army Representative

Vice Admiral Martin H. Daniell
 U.S. Coast Guard
 Pacific Area Commander
 Coast Guard Island (CALLIE)
 Alameda, California

Admiral Stanley R. Arthur
 U.S. Navy
 Vice Chief of Naval Operations

Rear Admiral Ralph W. West, Jr.
 U.S. Navy
 Superintendent
 Naval Postgraduate School

Dr. Harrison Shull
 Provost
 Naval Postgraduate School

The Honorable Kennedy White
 Mayor of the City of Carmel

Commander C.L. Lambing
 U.S. Navy (Retired)
 President, Monterey Peninsula Council
 Navy League of the United States

Vice Admiral Richard A. Miller
 U.S. Navy (Retired)
 President Naval Postgraduate School
 Foundation

Captain Ross D. Barker
 U.S. Navy
 Dean of Students and Director of Programs
 Naval Postgraduate School

SECOND ROW (Left to Right)

Dr. Rodney Minott
 Department of National Security Affairs

Dr. Daniel Collins
 Department of Aeronautics and
 Astronautics

Dr. Michael A. Morgan
 Department of Electrical and Computer
 Engineering

Dr. Mathew Kelleher
 Department of Mechanical Engineering

Dr. Peter Purdue
 Department of Operations Research

Dr. David Whipple
 Department of Administrative Sciences

Commander G. J. Hughes
 Department of Computer Science

Dr. Robert H. Bourke
 Department of Oceanography

Dr. Robert Haney
 Department of Meteorology

Dr. Richard Franke
 Department of Mathematics

Dr. Karlheinz Whoeler
 Department of Physics

Dr. James Eagle
 ASW Academic Group

Dr. Rudolf Panholzer
 Space Systems Academic Group

THE PROGRAM

ProcessionalThe Marshall
 Professor A.W.Cooper.....Grand Marsha
 Professor James Fremgen.....Marsha
 Professor Milton Bank.....Marsha
 Lieutenant Colonel Don Summers, U.S. Marine Corps.....Marsha

National Anthem.....Navy Band San Francisco

Invocation*.....Chaplain John F. Baldwin

Introduction of Speaker Rear Admiral Ralph W. West, Jr., Superintendent

Address to Graduates.....Admiral Stanley R. Arthur
 Vice Chief of Naval Operations

Presentation of Awards Provost

Presentation of Candidates..... Department Chairmen

Announcement of Degrees..... Provost

Benediction*.....Chaplain John F. Baldwin

Recessional*.....Navy Band San Francisco

Notes:

RADM West and Mrs. West cordially invite graduates, faculty and guests to a reception in honor of the graduates in the Barbara McNitt Ballroom of Herrmann Hall immediately following the ceremony.

The audience should remain seated except for the events marked with an asterisk.

The audience is requested to hold their applause until the last graduate has crossed the stage.

CURRICULAR OFFICERS AND ACADEMIC ASSOCIATES

Administrative Sciences

Curricular Officer - CDR Michael Tryon

Academic Associates

Transportation Logistics Management - Professor Alan McMasters
Transportation Management - Professor Alan McMasters
Acquisition and Contract Management - Professor David Lamm
Management Sciences - Professor James Suchan (USMC, USCG, USA, CIV)
Professor Roger Evered (INTL)
Systems Inventory Management - Professor Alan McMasters
Material Logistics Support Management - Professor Alan McMasters
Financial Management - Professor James Fremgen
Manpower, Personnel and Training Analysis - Professor Mark Eitelberg

Aeronautical Engineering

Curricular Officer - CDR Wade Duym, USN

Academic Associates

Aeronautical Engineering - Professor Gerald Lindsey
Aeronautical Engineering Avionics - Professor Gerald Lindsey
Space Systems Engineering - Professor Conrad Newberry

Air-Ocean Sciences

Curricular Officer - CDR Timothy T. Cummings, USN

Academic Associates

Meteorology - Professor Roger T. Williams
Oceanography - Professor Roland W. Garwood
Operational Oceanography - Professor Robert Bourke

Antisubmarine Warfare/Electronic Warfare

Curricular Officer - CDR Rick Erazo, USN

Academic Associates

Antisubmarine Warfare - Professor James Sanders
Electronic Warfare - Professor David Jenn
Space Systems Operations - Professor Dan C. Boger

Joint C3 and Space Systems

Curricular Officers - LCDR Shelly Gallup, USN/Maj Pat Baillie, USAF

Academic Associates

Command, Control and Communications - Professor Dan C. Boger

Computer Technology

Curricular Officer - CDR Thomas J. Hoskins, USN

Academic Associates

Information Technology - Professor Tung X. Bui
Computer Science - Professor Mike Zyda

Electronics and Communications

Curricular Officer - CDR Rondel G. Reynolds, USN

Academic Associates

Electronics Systems Engineering
International - Professor Rama Janaswamy
Non-Navy - Professor Ron J. Pieper
Navy - Professor R. Clark Robertson

National Security and Intelligence

Curricular Officer - CDR Terry W. Tiernay, USN

Academic Associates

Area Studies - Professor Mikhail Tsyppkin
International Organizations and Negotiations - Professor Frank Teti
Strategic Planning - Professor Frank Teti
Intelligence - Professor Thomas Grassey
Special Operations - Professor Godon McCormick

Naval Engineering

Curricular Officer - CAPT Walter A. Ericson, USN

Academic Associate

Naval Engineering - Professor Morris Driels

Operations Research

Curricular Officer - CDR Alan D. Zimm, USN

Academic Associates

Operations Research - Professor James Esary
Operations Logistics - Professor David Schradly
Advanced Science (Applied Math) - Professor M. Weir

Weapons Engineering

Curricular Officer - CDR Lou Athow, USN

Academic Associates

Weapons Systems Engineering - Professor James Sanders
Weapons Systems Science - Professor James Sanders
Nuclear Physics - Professor James Sanders
Underwater Acoustics - Professor James Sanders

DECEMBER 1992 GRADUATION AWARDS

The Carl E. and Jesse W. Menneken Annual Faculty Award for Excellence in Scientific Research - Professor Ching-Sang Chiu

Presented annually to a Naval Postgraduate School faculty member who has exhibited outstanding research efforts in science and engineering.

Monterey Peninsula Council Navy League Award for Highest Academic Achievement - LT Kay L. DiNova, USN

Presented quarterly to graduating USN, USMC, USCG, or NOAA student who has maintained an outstanding academic record as exhibited by academic achievement, thesis research, motivation, and community involvement.

Naval Postgraduate School Outstanding Academic Achievement Award for Department of Defense Students - CPT Mark A. D'Amato, USA

Presented quarterly to a graduating USA, USAF, or Department of Defense civilian who has maintained an outstanding academic record as exhibited by academic achievement, thesis research, motivation, and community involvement.

Naval Postgraduate School Outstanding Academic Achievement Award for International Students - LCDR Abdon Baptista De Paula Filho, Brazil Navy

Presented quarterly to a graduating military or civilian non-U.S. citizen student who has exhibited outstanding academic achievement, conducted notable thesis research, maintained motivation and a serious interest in the community, and who has interacted well with other students in the interest of international alliance.

***Armed Forces Communications and Electronics Association Award - LCDR Christopher B. Vagts, USN**

Presented to an officer graduate who has achieved academic excellence and best demonstrated professional qualities in one of the following programs: Electronics, Communications, Intelligence, or Command and Control.

The Space and Naval Warfare Systems Command Award in Electronic Systems Engineering - LCDR Charles L. Nicholson, USN

Presented semiannually to a graduating U.S. Marine Corps of distinguished academic achievement in the advanced Electronics Engineering program.

Naval Sea Systems Command Award for Weapons System Engineering Excellence - LT Daryl L. Caudle, USN

Presented in recognition of distinguished scholastic achievement in a Weapons Engineering field of study. Selection is based on marks attained, quality and applicability of thesis and demonstrated leadership potential in the field of Weapons Engineering.

Naval Sea Systems Command Award in Naval Engineering - LT Donald E. Neuuberger, Jr., USN

Presented in recognition of excellence in the Naval Engineering Program. The criteria for this award includes demonstrated academic excellence measured by marks attained, contents of thesis and demonstrated leadership potential in Naval Engineering.

The Rear Admiral Thomas R. McClellan Award for Academic Excellence in Administrative Science - LT Scott L. Martens, USN

Presented to a graduate of Administrative Science based upon academic performance, professional commitment and leadership potential.

***The Naval Supply Systems Command Award for Academic Excellence in Administrative Science - LT Edward W. Sheehan, USN**

Presented annually to an outstanding U.S. Naval Supply Corps officer in Administrative Science at the Naval Postgraduate School. This award is made on the basis of academic achievement, research excellence, contribution to the professional and civilian community, and faculty recommendation.

Department of the Navy Award for Academic Excellence in Financial Management - LT Robert J. Vento, USN

Presented semiannually to a financial management student who demonstrates overall academic performance, academic excellence in financial management courses, high leadership potential, future ability to contribute to professional, academic and public forums while meeting the highest standards of stewardship of the National Trust and thesis excellence.

Administrative Sciences Faculty Award for Excellence in Management - Capt John Barth, USMC

Presented semiannually to a student in any of the Administrative Sciences curricula. This award is based on exceptional academic ability and is presented only when the caliber of the potential nominee is considered high enough to make a presentation of award.

Conrad Scholar Award for Distinguished Academic Achievement in Financial Management - LT Timothy R. Anderson, USN and LT Robert J. Vento, USN

Presented semi-annually to an outstanding Unrestricted Line (URL) officer in the Financial Management community who has demonstrated academic excellence, presented a financial management essay for publication, and exhibited the potential for outstanding leadership while attending the Naval Postgraduate School.

United States Naval Institute Award - LT Brian T. Howes, USN

Presented as many as four times a year during graduation to a student graduating from a program of the National Security and Intelligence Curricula.

* Indicates that the award is presented in absentia.



THE GRADUATES

DOCTOR OF PHILOSOPHY IN ELECTRICAL ENGINEERING
Capt Daniel J. Brett, USAF

DOCTOR OF PHILOSOPHY IN PHYSICAL OCEANOGRAPHY
LT Timothy Daniel Tisch, NOAA

DOCTOR OF PHILOSOPHY IN METEOROLOGY
Mr. Tien-Chiang Yeh, Naval Postgraduate School, Monterey, CA

AERONAUTICAL AND ASTRONAUTICAL ENGINEER
LT Mathew Raymond Avila, USN
LT Stephen D. Nordel, USN
*LCDR Thomas Dean Stuart, USN

MECHANICAL ENGINEER
LT Eric Scott McDonald, USN

MASTER OF ARTS IN NATIONAL SECURITY AFFAIRS

Capt Richard Handy Brown, USAF
1stLt Phillip Mathew Cochran, USAF
*Capt Raymond Ellison Collins, USAF
*1stLt Todd A. Dixon, USAF

Capt Brian G. Fillmore, USAF
Capt Carl C. Goodison, USAF
Capt Robert Louis Macho, USAF
1stLt Mathew K. Moeller, USAF

Capt James C. Rix, USAF (With Distinction)
*Capt Steven R. Schulz, USAF

Capt Elise Marie Vander Vennet, USAF (With Distinction)

CPT Christopher E. Gordon, USA
CPT Robert W. Hand, USA
*CPT James L. Jaworski, USA
MAJ Andras V. K. Karadi, USA
CPT Russell M. Kautz, USA

CPT Thomas C. Keenan, USA (With Distinction)
CPT Pierre R. Lys, USA

CPT David K. McColley, USA
CPT Thomas W. Newcomb, USA
*CPT Glenn D. Reisweber, USA
CPT Franklin Paul Rodgers, USA

LT William H. All, IV, USN
Mr. Enrique Mario Alvarez
Mr. Dean C. Anderson

LCDR Robin C. Bedingfield, USN
LT Jon Cole Belanger, USN
*LCDR Patrick Hahler Brady, USN
LT Dale G. Fuller, USN

LT Edward George Gunning, Jr., USN
LT Randy D. Haldeman, USN
LCDR Charles M. Heron, USN
LT Brian Thomas Howes, USN
LT Hesham Helmy Islam, USN
LT Todd G. Langdon, USN
LT James F. McIlmail, USN
LT William Joseph Nault, USN
LT Donald R. Owens, USN (With Distinction)
LCDR Samuel Perez, Jr., USN
LT James E. Pitis, USN
LT Daniel Fitzgerald Redmond, USN
LT Sandra L. Scott, USN
LT Joseph Silva, Jr., USN
LT Kenneth J. Szczublewski, USN (With Distinction)
LCDR Michael W. Ward, USN

MASTER OF SCIENCE IN AERONAUTICAL ENGINEERING

LT Mathew Raymond Avila, USN
LT Edward Y. Andrus, USN
LT Robert Louis Baldocchi, USN
*LT Daniel Scott Dietrich, USN
LT Larry M. Egbert, USN
LT Joey Alan Miller, USN
LT Hal C. Murdock, USN
LT David D. Myre, USN
LT Gordon Dean Peters, USN
*LCDR Robert Brian Stoney, USN
LCDR Michael John Wagner, USN

MASTER OF SCIENCE IN ASTRONAUTICAL ENGINEERING

LCDR William Earle Clifton, USN
LCDR Michael A. Hecker, USN (With Distinction)
LT Bruce H. Mathers, USN
LT J. David McCrorie, II, USN (With Distinction)
LT Scott M. Newman, USN
LT Bruce Charles Urbon, USN

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

Capt Christopher P. Benden, USMC
Capt Joseph P. Davis, USMC
LT Jose L. Nadal H., Peruvian Air Force
MAJ Paul Arthur Ohrt, Canadian Army
LT Timothy A. Benson, USN
LT Arthur Brooks Billingsley, Jr., USN
LT Georgios Theodoros Bougioukos, Hellenic Navy
LT William Allen Brooks, Jr., USN
LCDR Nancy Joann Carter, USN
LCDR Abdon Baptista De Paula Filho, Brazilian Navy
LT Thomas Murray Fritz, USN
LTJg Zafer Inceoglu, Turkish Navy
LTJg Betulhan Kahraman, Turkish Navy
LT Roberto Winston Lago, USN
LT Panayiotis Petros Lemos, Hellenic Navy

LT James T. Loeblein, USN
LT Paul V. Merz, USN
LCDR Charles Louis Nicholson, USN
LT Gary Joseph Nowicki, USN
LT Stephens W. Nunnally, Jr., USN
LT Michail O. Papageorgiou, Hellenic Navy
LTJg Dimitrios Peppas, Hellenic Navy
LT Sotirios G. Perros, Hellenic Navy
LCDR Rogerio N. Costa Pinto, Brazilian Navy (With Distinction)
LT Lannes Bazil Rasnick, Jr., USN
LT William Howard Reid, USN
LTJg Georgios A. Sagos, Hellenic Navy
LT Daniel Thomas Sullivan, USN
LT Kwok Bo Tse, USN
*LCDR Christopher Bryan Vagts, USN
LT Martha M. VanDerKamp, USN
LCDR Carlos Hernando Velasco Solano, Colombian Navy (With Distinction)
LTJg Cem Yildirim, Turkish Navy

MASTER OF SCIENCE IN MECHANICAL ENGINEERING

CPT David Paul Anderson, USA
LCDR Steven Earl Cody, USN
LCDR Michael A. Delaney, USN
LT Jeffrey R. Dunlap, USN
LT Edward A. Faxlanger, Jr., USN
LT Barry Wetzel Ingold, USN
*LT David Lawrence Klein, USN
LCDR Eric Scott McDonald, USN
LT Donald Edward Neubert, Jr., USN (With Distinction)
LCDR Ronald G. Rahall, USN (With Distinction)

MASTER OF SCIENCE IN OPERATIONS RESEARCH

CPT Maria Christina Pate, USA

MASTER OF SCIENCE IN MANAGEMENT

Capt John D. Barth, USMC (With Distinction)
Capt Gregory K. Cohen, USMC
Maj Eugene A. Herrera, USMC
Capt Mark D. LaViolette, USMC (With Distinction)
Capt Robert McGuinness, USMC
Capt Donald A. Moore, USMC
Capt John C. O'Keefe, USMC
Capt Phillip G. Rynn, USMC
Maj Roy R. Schleiden, USMC
Capt David A. Tagg, USMC
Capt Robert S. Thien, USMC
Capt James M. Williams, USMC
LT Vincent B. Atkins, USCG
LTJG Terry N. Toy, USCG
CPT Thomas M. Besch, USA
CPT Steven M. Christy, USA
CPT Mark A. D'Amato, USA (With Distinction)
CPT Telemachus C. Halkias, USA

CPT Michael E. Hogan, USA
CPT Sean P. O'Day, USA
CPT Roch A. Switlik, USA
CPT Kirk F. Vollmecke, USA
CPT Milton E. Wynn, USA
LCDR Richard L. Aasland, USN
LT Timothy R. Anderson, USN
LCDR Richard P. Baldwin, USN
LT David A. Berchtold, USN
LT Diane T. Bizzell, USN
LT Edward W. Brown, USN
LT Sandra K. Chachula, USN
LCDR Gregory B. Chitwood, USN
*LT Daniel G. Clague, USN
LCDR David W. Danner, USNR
LT Robert C. Douglass, USN
LT William M. Dudley, USN
*LT Dennis L. Duren, USN
*LCDR Gregory W. Eaton, USN
LT Lee G. Ebert, USN
CDR Michael V. Edwards, USN
LCDR Gregory H. Freeburn, USN
*LCDR Marco S. Furforo, USN
CDR Eli G. Gilat, Israeli Navy
LCDR Leonard Bret Gordon, USN
LT Robert F. Haidvogel, USN
*LT Sherman T. Hayes, USN
LT Mark E. Hogenmiller, USN
*LT Robert L. Hulst, USN
LT Claude R. Husson, USN
LCDR Michele R. Jackson, USN
LT Phillip E. Jackson, USN
LCDR Paul T. Jensen, USN
*LT Ramon A. Jimenez, USN
CDR Kenneth W. Joseph, Royal Australian Navy (With Distinction)
LCDR Bill C. Kinney, USN
LCDR Winford W. Knowles, USN
LCDR Kim L. Kotlar, USN
LT Kurt L. Kunkel, USN
LCDR Lee, Man-Ying R.O.C. on Taiwan, Navy
LCDR Charles M. Lilli, USN
LCDR Vance G. Mahaffey, USN
LT Keith L. Marchbanks, USN
LT Scott L. Martens, USN (With Distinction)
LCDR David J. McNamara, USN
LT Robert L. Michels, USN
LCDR Jonathan D. Miller, USN (With Distinction)
LCDR Michael M. O'Connor, USN
LCDR George Omechevarria, USN
LT Richard T. Palmer, USN
*LCDR Richard A. Parker, USN
LT John B. Perkins, USNR
LT Alex M. Plewniak, USN
LCDR James T. Ross, SC, USNR

*LT Edward W. Sheehan, Jr., USN (With Distinction)
LCDR Peggy F. Simpson, USN
LT Larry J. Steckler, USN
LT John F. Steinberger, USN
LT Stephen B. Symonds, USN
LT James G. Thomas, USN
LCDR Cleve Van Haasteren, USN
LT Robert J. Vento, USN (With Distinction)
LT Raymond A. Walker, USN
LT Thomas F. Wiechelt, USN
LCDR Maher M. Zarou, USN

MASTER OF SCIENCE IN INFORMATION SYSTEMS

LT Michael A. Giardino, USN

MASTER OF SCIENCE IN COMPUTER SCIENCE

Mr. Mark R. Boone, Naval Surface Warfare Center, Dahlgren, VA
LCDR Michael A. Hecker, USN
LTjg Dogan Ozdemir, Turkish Navy
Mr. Michael A. Randall, Naval Air Warfare Center, Aircraft Div, Patuxent River, MD
LT Lyford Dean Rich, USN
LTjg Erhan Saridogan, Turkish Navy

MASTER OF SCIENCE IN PHYSICAL OCEANOGRAPHY

LT Michael R. Hicks, USCG
LCDR Li, Wei-Szu, R.O.C. on Taiwan, Navy
LT Claudia Stevens Whitney, USN (With Distinction)

MASTER OF SCIENCE IN METEOROLOGY AND PHYSICAL OCEANOGRAPHY

LCDR Robert Martin Bassett, USN
LT James Berdeguez, USN
LT Grant Alexander Cooper, IV, USN (With Distinction)
LT Simon Konstantinidis, Hellenic Navy
LCDR Eric John Miller, USN
LT Thomas M. Millman, USN
LT Michael T. Neith, USNR
LT Karen Marie Ruppe, USNR
LT Julia Marcia Spinelli, USN
LCDR Kenneth Allen Wos, USN

MASTER OF SCIENCE IN METEOROLOGY

Capt Eric J. McKinley, USAF
Capt Steven Austin Rugg, USAF
Capt Kevin L. Stone, USAF
LT Kuo, Yu-Heng, R.O.C. on Taiwan, Navy
LT Claudia Stevens Whitney, USN (With Distinction)

MASTER OF SCIENCE IN APPLIED MATHEMATICS

LT Michael A. Bernhard, USN (With Distinction)

MASTER OF SCIENCE IN PHYSICS

*CPT Daniel S. Roper, USA
LT Joseph T. Carlson, USN

LT Daryl Lane Caudle, USN
 LT Kay L. DiNova, USN
 LT Thomas J. Fasanello, Jr., USN
 LT Vincent J. Gast, USN
 LT Jon C. Kreitz, USN
 LT Stephen D. Lewia, USN
 LT Clelio Leite, Portuguese Navy
 LT Ferdinand J. Metzger, Jr., USN
 LT Joseph R. Thien, USN
 LCDR Kenneth M. Wallace, Jr., USN

MASTER OF SCIENCE IN ENGINEERING ACOUSTICS

Capt Ronald J. Stockermans, Canadian Air Force
 CDR Che, Chun-Hua, R.O.C. on Taiwan, Navy
 LT Richard T. Lawrence, USN
 LT Glenn A. Miller, USN
 LCDR Rogerio N. Costa Pinto, Brazilian Navy (With Distinction)
 LTjg Georgios A. Sagos, Hellenic Navy

MASTER OF SCIENCE IN ENGINEERING SCIENCE

*CPT John K. Vaughn, USA
 *LCDR Carl Scott Barbour, USN
 LTjg Cengiz Ekin, Turkish Navy
 LCDR Kenneth M. Wallace, Jr., USN

MASTER OF SCIENCE IN APPLIED SCIENCE

LT Johnny Lawrence Schultz, USN

**MASTER OF SCIENCE IN SYSTEMS TECHNOLOGY
 (SPACE SYSTEMS OPERATIONS)**

LCDR Phillip M. Tinsley, USN
 LT Theodore A. Vetter, USN

Those students whose names are preceded by an * are being presented in absentia.

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 open or closed. The doctor's gown has bell-shaped sleeves and may be worn open or closed. On 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
Arts, Letters, and Humanities	White
Business, Commerce	Drab
Education	Light Blue
Engineering	Orange
Forestry	Russet
Home Economics	Maroon
Law	Purple
Library Science	Lemon
Music	Pink
Pharmacy	Olive Green
Philosophy	Dark Blue
Physical Education	Sage Green
Science	Golden Yellow
Theology	Scarlet
Veterinary Science	Gray

UNIVERSITY GRANTING DEGREE	LINING	CHEVRON
Stanford University	Cardinal	
Purdue University	Black	Gold
University of Kansas	Purple	White
University of California	Gold	Yale Blue
University of Michigan	Maize	Blue
University of Southern California	Gold	Cardinal
University of Munich, West Germany	White	Moonglow/White
Columbia University	Light Blue	White
Duke University	Royal Blue	White
Harvard University	Crimson	
Yale University	Blue	
University of Denver	Cardinal	Gold



THE NAVAL POSTGRADUATE SCHOOL

The Naval Postgraduate School opened at Annapolis in 1909 and transferred to the Monterey Peninsula in 1952. Since its beginning, the school has conferred over 22,000 degrees. The typical student is an unrestricted line U.S. Naval Officer who has completed an operational tour. Students are engaged in intensive studies leading to a master's degree in one of 41 different curricula. Each curriculum is tailored to provide the academic requirements for an accredited advanced degree and meet the additional educational skill requirements necessary for subsequent assignments. Students are obliged to remain in service for about four years after they complete their schooling. Although most of the graduates receive master's degrees, there are also students working on professional engineering degrees and pursuing doctoral degrees.

Students arrive every quarter, with the heaviest influx entering in June and September. Of the approximately 1800 students now enrolled, 75% are in the United States Navy and Marine Corps, 15% are from other United States services, and the remaining 10% are from allied foreign countries.

Many of the 350 professors at the school are internationally recognized in their respective fields. In order to keep abreast in their fields, faculty members conduct research, most of which is beneficial to other governmental agencies. Over 21 million dollars of research is conducted or administered annually on this campus.

The Superintendent, RADM Ralph W. West, Jr., with the assistance of Provost Dr. Harrison Shull, guides the school in its endeavors. There is also a civilian Dean of Faculty, Dean of Instruction, Dean of Computer and Information, Dean of Research, and two Naval Officers who serve as the Dean of Students/Director of Programs and Director of Military Operations.

The following eleven academic departments comprise the Postgraduate School: Administrative Sciences; Mathematics; Computer Science; Operations Research; National Security Affairs; Physics; Electrical and Computer Engineering; Meteorology; Aeronautical and Astronautical Engineering; Mechanical Engineering; and Oceanography. There are also four academic groups: Anti-Submarine Warfare; Command, Control and Communications; Electronic Warfare; and Space Systems.

Guests are invited to tour the school grounds and to visit the Naval Postgraduate School Museum located in the basement of Herrmann Hall. The museum is designed to capture the history of both the school and the Old Del Monte Hotel through displays and artifacts.

