REAR ADMIRAL MATTHEW L. KLUNDER
CHIEF OF NAVAL RESEARCH/DIRECTOR, INNOVATION, TECHNOLOGY REQUIREMENTS, AND TEST & EVALUATION (N84)

Rear Adm. Klunder, a native of Alexandria, Va., graduated from the United States Naval Academy in 1982 and earned his wings of gold at Meridian, Miss., in September 1984. Subsequent flying tours were based in Naval Air Station (NAS) Miramar, Calif.; NAS Patuxent River, Md.; Naval Air Facility Atsugi, Japan; and NAS Lemoore, Calif., where he was qualified in numerous aircraft including the E-2C Hawkeye and F/A-18 E/F Super Hornet.

Klunder has served at sea in Airborne Early Warning Squadron (VAW) 112; VAW-115 as a department head, and as commanding officer; and Carrier Air Wing Two as air wing commander. He has made eight deployments and multiple surge operations to the Atlantic, Pacific and Indian oceans and to the Mediterranean Sea and Arabian Gulf.

Klunder's shore tours include serving as a flight instructor, Naval Air Training and Operating Procedures Standardization officer and Commander Naval Air Force, U.S. Pacific Fleet evaluator at VAW-110; test pilot/project officer at Force Warfare Test Directorate; senior operations officer and Single Integrated Operational Plan officer at the Joint Staff J-3/National Military Command Center; Joint Staff liaison officer and section chief at the U.S. State Department; Combined Air Operations Center deputy director at Al Udeid Air Base in Qatar; deputy director for Information, Plans, and Security for OPNAV N3/N5; 83rd commandant of Midshipmen at the U.S. Naval Academy; and director of Intelligence, Surveillance and Reconnaissance Capabilities Division, OPNAV N2/N6F2. Highlights during these tours include receiving the 1988 Hawkeye of the Year award, the 1991 Test Pilot of the Year award, and the 2002 George C. Marshall Statesman award.

In November 2011, he became the 24th Chief of Naval Research, with additional duties as director, Test Evaluation and Technology Requirements.

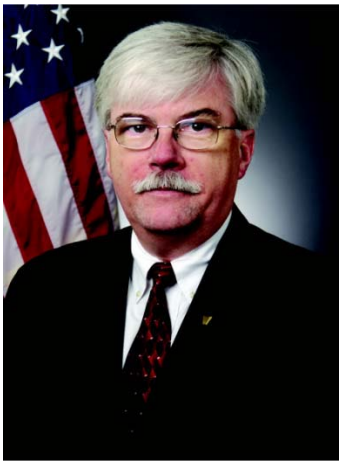
Klunder received his bachelor's degree from the U.S. Naval Academy, a master's degree in Aerodynamics and Aviation Systems from the University of Tennessee, and a master's degree in Strategic Studies from the National War College.

He has flown more than 45 different aircraft and accumulated 21 world-flying records. His awards include the Legion of Merit (four Awards), Defense Meritorious Service Medal (two Awards), Meritorious Service Medal (two Awards), Joint Commendation Medal (two Awards), Navy and Marine Corps Commendation Medal (four Awards) and various unit and campaign awards.

United States Navy

Biography

WALTER F. JONES, PH.D.
EXECUTIVE DIRECTOR, OFFICE OF NAVAL RESEARCH



Dr. Walter F. Jones joined the Office of Naval Research (ONR) in September 2007, as Executive Director. Dr. Jones is the senior civilian manager at ONR and provides executive technical and scientific direction for ONR's investments in the innovative operational concepts that develop the science and technology (S&T) that ensure a technological advantage for our warfighters and allies. Accordingly, he works closely with ONR's Directorate leads in the identification, prioritization and support of specific areas of science and technology development.

Dr. Jones was appointed to the Senior Executive Service in January 2002 and has a total of 17 years Federal Service.

Dr. Jones served as the Director, Plans and Programs, Air Force Research Laboratory (AFRL), Wright-Patterson Air Force Base, Ohio, from August 2005 through January 2008. He was responsible for developing and managing the processes that defined AFRL's $3billion annual investment in technologies for future Air Force systems. These systems included space, weapons, aeronautics, command, control, communications, computers, intelligence, surveillance and reconnaissance.

Dr. Jones has held a wide variety of positions in government and academia. He has served as Director, Aerospace and Materials Sciences, for the Air Force Office of Scientific Research, Arlington, Va. In this capacity, he planned, coordinated, and executed a $55-million basic research program, including solid mechanics, fluid mechanics, materials science and propulsion. He has also served as a senior program analyst with the Office of the Deputy Director of Central Intelligence for Community Management. He has held several positions with the Air Force, including Deputy for Research Sciences with the Office of the Assistant Secretary of the Air Force (Acquisition), and Deputy for Science and Technology with the Office of the National Security Space Architect. In addition, Dr. Jones has held faculty positions at the University of Florida, University of Tennessee and Clemson University.

Dr. Jones received his B.S. in mechanical engineering and his M.S. and Ph.D. in engineering mechanics from Clemson University. He also has an M.S. in national resource strategy from the Industrial College of the Armed Forces at Ft. Lesley J. McNair in Washington, D.C. In 2005 Dr. Jones received his Certificate in Legislative Studies at the Georgetown University, Government Affairs Institute, Washington, DC.

United States Navy
Biography

ADMIRAL MARK FERGUSON
VICE CHIEF OF NAVAL OPERATIONS

Following graduation from the U.S. Naval Academy with the Class of 1978, Adm. Ferguson completed nuclear power training prior to entering the fleet as a surface warfare officer.

His afloat assignments include service on board USS *South Carolina* (CGN 37), USS *Fife* (DD 991) and USS *Dwight D. Eisenhower* (CVN 69). He commanded the USS *Benfold* (DDG 65) and Destroyer Squadron 18.

In addition to various staff assignments, he served as a Special Assistant to the Supreme Allied Commander, Europe, in Mons, Belgium. He has also served as the assistant commander, Navy Personnel Command, chief of legislative affairs, and chief of naval personnel.

Ferguson holds a master's degree in computer science from the Naval Postgraduate School and completed a National Security Fellowship at the Harvard Kennedy School. His awards include the Navy Distinguished Service Medal, the Defense Superior Service Medal, and various unit and campaign awards.

United States Navy
Biography

THOMAS H. KILLION, PH.D.
DIRECTOR, OFFICE OF TRANSITION

Dr. Thomas Killion was designated as director of the Office of Naval Research Office of Transition in July 2012. In this role, he is responsible for policy, planning, resourcing and execution management for a substantial portion of the Department of the Navy science and technology (S&T) budget, including the Future Naval Capabilities, the Navy's Small Business Innovation Research and Manufacturing Technology programs.

Before joining ONR, Killion served as director of the Biometrics Identity Management Agency (BIMA). As director and biometrics executive manager for the Department of Defense (DoD), Killion carried out the secretary of the Army's executive agent responsibilities for DoD biometrics in order to deny anonymity to adversaries and enable identity management. He led DoD activities to program, coordinate, integrate and synchronize biometrics technologies and capabilities, and operated and maintained the DoD authoritative biometrics database.

Prior to joining BIMA in October 2010, Killion was detailed to the Joint Improvised Explosive Devise Defeat Organization (JIEDDO) as science advisor to the director in July 2010. In this capacity, he provided S&T advice on programs, developed a systematic S&T strategy and roadmap to help guide JIEDDO investments, and engaged with S&T organizations within DoD, other departments, industry, academia as well as international stakeholders to leverage their efforts in countering IED threats.

Killion served as the deputy assistant secretary of the Army for research and technology [DASA(R&T)] and chief scientist [DASA(R&T)/Chief Scientist] from March 2004 through June 2010. He was responsible for the entire Army Research and Technology program, spanning 21 laboratories and research, development and engineering centers; more than 10,000 scientists and engineers; and a six-year budget of more than $11 billion. Under his leadership, the program developed an S&T strategy responsive to Army needs, from the near-term (less than five years) to longer term projects stretching out more than 20 years. He was also the principal scientific advisor to both the secretary of the Army and the assistant secretary of the Army for acquisition, logistics, and technology. In support of major acquisition, Killion was responsible for providing independent assessments on the readiness of critical technologies for weapon systems programs approaching key program decision points, both to the Army leadership and to DoD decision-makers.

Prior to becoming the DASA(R&T)/chief scientist, Killion served as the director for technology, responsible for the oversight and coordination for most of the Army's Applied Research Program and its Advanced Development Program. He also co-chaired the Warfighter Technical Council and managed the S&T objective and advanced technology demonstration approval process.

Previous key assignments have included director for personnel technologies in the Office of the Deputy Chief of Staff (DCS), G-1; U.S. Army Research Laboratory (ARL) liaison to the Office of the DASA(R&T); manager for the Army's Dual Use S&T Program; technical advisor in the Advanced Systems and Concepts Office at the Defense Threat Reduction Agency; ARL liaison to the MANPRINT Directorate; executive assistant to the director of ARL; technology team leader for the Unmanned Aerial Vehicles Joint Project; and principal scientist for Electronic Combat Training at the Air Force Human Resources Laboratory.

Killion has been a member of the Senior Executive Service since 2002 and is a recipient of the Meritorious Presidential Rank Award and of the Exceptional Civilian Service Award from the Department of the Army. He earned a dual bachelor's of arts in psychology and English from Saint Mary's College, and later received his master's and doctoral degrees in experimental psychology from the University of Oregon. Killion graduated with highest distinction from the Naval War College.

United States Navy Biography

VICE ADMIRAL WILLIAM R. BURKE
DEPUTY CHIEF OF NAVAL OPERATIONS WARFARE SYSTEMS (N9)

Vice Adm. Burke, a native of Hornell, N.Y., graduated from the United States Naval Academy in 1978 with a Bachelor of Science in Systems Engineering. In 1985, he completed a Master of Business Administration at Marymount University. In 1999, he earned a Master of Science degree in National Security Strategy at the National War College in Washington, D.C. He is a graduate of Massachusetts Institute of Technology Seminar 21 Program in International Politics.

His submarine assignments include USS *Lafayette* (SSBN 616), USS *Key West* (SSN 722), USS *Omaha* (SSN 692), USS *Cavalla* (SSN 684), and command of USS *Toledo* (SSN 769). He commanded Submarine Squadron Two from July 2001 to July 2003.

His Washington D.C. shore assignments include a tour in chief of naval operations' Attack Submarine Division; assistant deputy for House Liaison in the Navy Office of Legislative Affairs; chief of Training, Doctrine, and Assessment; assistant deputy director for Combating Terrorism (JCS J34); and, head of Warfighting Assessments Branch (N812) followed by a tour as the executive assistant to the Vice Chief of Naval Operations.

Promoted to Rear Admiral in September 2005, his flag assignments include commander, Logistics Group Western Pacific/commander, Task Force 73/commander Navy Region Singapore; director, Assessment Division (N81/N00X) and the director, Quadrennial Defense Review (QDR/N00X).

In April 2010, he was promoted to vice admiral and reported for duty as deputy chief of naval operations for Fleet Readiness and Logistics (N4). He is currently assigned as deputy chief of naval operations for Warfare Systems.

Burke wears the Distinguished Service Medal, Defense Superior Service Medal, Legion of Merit (three awards), Meritorious Service Medals (three awards), the Navy and Marine Corps Commendation Medal (four awards), and the Navy and Marine Corps Achievement Medal (two awards). While onboard *Cavalla*, he received the Admiral Chick Clarey Award for the 1992 Outstanding Navy Officer Afloat from the Honolulu Council of the Navy League.

United States Navy
Biography

LAWRENCE SCHUETTE, PH.D.
DIRECTOR, OFFICE OF INNOVATION

Dr. Lawrence Schuette is the director of the Office of Innovation at the Office of Naval Research (ONR) in Arlington, Va. As the senior civilian responsible for Innovation at ONR, he oversees the high-risk/high-payoff "game changing" technology investments.

Schuette entered the Senior Executive Service in July 2007. He started his career as a research scientist at the Naval Research Laboratory working in the Acoustics, Information Technology and Tactical Electric Warfare Divisions. Prior to joining ONR, he also served as head of the Innovative Systems Subgroup of the Office of the Secretary of Defense Technical Joint Cross Service Group during the 2005 Base Realignment and Closure. He also served as deputy chief of the Joint IED Defeat Organization (JIEDDO) Laboratory Board and as a special assistant to the assistant secretary of the Navy for Research, Development and Acquisition.

Schuette received his bachelor, master and doctoral degrees in Electrical Engineering from The Catholic University of America. He is a 2008-2009 MIT Center for International Studies Seminar XXI Fellow and a Level III Defense Acquisition Workforce Improvement Act (DAWAI) Science and Technology Manager.

His awards include the secretary of defense's award for Exceptional Civilian Service, the Department of the Navy Superior Senior Service Award, the Department of the Navy Meritorious Civilian Service Award, the Naval Unit Commendation, the Naval Meritorious Unit Commendation and the American Red Cross Certificate of Extraordinary Personal Action.

ARATI PRABHAKAR
DIRECTOR, DEFENSE ADVANCED RESEARCH PROJECTS AGENCY

Dr. Arati Prabhakar has spent her career investing in world-class engineers and scientists to create new technologies and businesses. Her first service to national security started in 1986 when she joined DARPA as a program manager. She initiated and managed programs in advanced semiconductor technology and flexible manufacturing, as well as demonstration projects to insert new semiconductor technologies into military systems. As the founding director of DARPA's Microelectronics Technology Office, she led a team of program managers whose efforts spanned these areas, as well as optoelectronics, infrared imaging and nanoelectronics.

In 1993, President William Clinton appointed Dr. Prabhakar director of the National Institute of Standards and Technology, where she led the 3,000-person organization in its work with companies across multiple industries.

Dr. Prabhakar moved to Silicon Valley in 1997, first as chief technology officer and senior vice president at Raychem, and later vice president and then president of Interval Research. From 2001 to 2011, she was a partner with U.S. Venture Partners, an early-stage venture capital firm. Dr. Prabhakar identified and served as a director for startup companies with the promise of significant growth. She began with entrepreneurs in energy and efficiency technologies, components for consumer electronics, and semiconductor process and design technology.

Dr. Prabhakar received her Doctor of Philosophy in applied physics and Master of Science in electrical engineering from the California Institute of Technology. She received her Bachelor of Science in electrical engineering from Texas Tech University. She began her career as a Congressional Fellow at the Office of Technology Assessment.

Dr. Prabhakar has served in recent years on the National Academies' Science Technology and Economic Policy Board, the College of Engineering Advisory Board at the University of California, Berkeley, and the red team of DARPA's Defense Sciences Research Council. In addition, she chaired the Efficiency and Renewables Advisory Committee for the U.S. Department of Energy. Dr. Prabhakar is a Fellow of the Institute of Electrical and Electronics Engineers, a Texas Tech Distinguished Engineer, and a Caltech Distinguished Alumna.

United States Navy
Biography

CAPT MICHAEL D. SMITH
COMMANDING OFFICER, ONR GLOBAL

Capt. Michael D. Smith grew up in Southern California and Southern Spain. He graduated from David Glasgow Farragut High School at Naval Base Rota, Spain, in 1981. He earned his bachelor of arts from the University of California at Los Angeles in June 1986, followed by his master of arts from the Naval Postgraduate School, Monterey, Calif., in December 1994.

Smith was commissioned after completing Aviation Officers Candidate School in April 1987. In April 1988, he was winged as a naval flight officer at Mather Air Force Base, Sacramento, Calif. After winging, Smith reported to VP-30, the East Coast P-3 Orion Fleet Replacement Squadron at Naval Air Station Jacksonville, Fla., for six months of P-3 orientation training.

Smith's P-3 tours have been with VP-45, VP-30 and VP-9. In his first fleet tour with the Pelicans of VP-45, he was a designated patrol plane mission commander and tactical coordinator. While assigned to VP-30, Smith was an NFO instructor and held ground jobs as the student control officer and administrative department head. During his department head tour with the Golden Eagles of VP-9, he served as the tactics officer, administrative officer, training officer and completed his tour as the operations officer in February 2001. Smith was a designated mission commander, tactical coordinator, instructor tactical coordinator and mission commander/tactical coordinator of a Chief of Naval Operations Special Projects "Beartrap" Aircrew.

His non-flying tours include the flag lieutenant and aide to the commander, Naval Training Center, Great Lakes, Ill.; the V-2 division officer and catapult/arresting gear officer or "shooter" aboard USS Carl Vinson (CVN-70); the P-3C Update III deputy program manager assigned to Naval Air System Command's Maritime Surveillance Aircraft Program Office (PMA-290); commander, Expeditionary Strike Group Five's Air Officer and officer in charge of Tactical Air Control Squadron (TACRON) 12 Detachment One; and the deputy chief of staff and assistant chief of staff for Operations and Requirements on the staff of commander, Antisubmarine Warfare Force, U.S. Third Fleet in Pearl Harbor, Hawaii.

Smith commanded TACRON 12 from June 2005 to September 2006 and U.S. Navy Region Center, Singapore, with additional duties as deputy commander, Singapore Area Coordinator, from July 2009 to June 2011. Smith assumed command of the Office of Naval Research Global in July 2011.

He has been awarded the Legion of Merit, Meritorious Service Medal (three awards), the Navy Commendation Medal (six awards), the Navy Achievement Medal (two awards), and various campaign, unit and service awards.

LIEUTENANT GENERAL THOMAS L. CONANT, USMC
DEPUTY COMMANDER, U.S. PACIFIC COMMAND

He is a former resident of Jackson, Michigan and a 1975 graduate of Central Michigan University (BSBA) and The Platoon Leaders Course. He graduated from The Basic School in 1976 and subsequently was designated a Naval Aviator in 1977. He has a Masters of Military Studies with Honors in Defense Management (Program and Acquisition Management) from American Military University.

He has commanded HMLA-167; Marine Aircraft Group 36; and served as Commanding General of Training Command; Deputy Commanding General of Training and Education Command and Commanding General, 3d Marine Aircraft Wing.

Lieutenant General Conant has served in 1st Marine Aircraft Wing, 2nd Marine Aircraft Wing, 3rd Marine Aircraft Wing, and 4th Marine Aircraft Wing as an AH-1W and UH-1N Assault Support Helicopter Pilot.

His staff duties have been as a Rotary Wing Monitor Headquarters Marine Corps (HQMC); Aide-de-Camp Commanding General Marine Forces Atlantic/II Marine Expeditionary Force; Faculty Advisor, USMC Command and Staff College; Joint Chiefs of Staff, J8; and Branch Head Aviation Plans, Programs, and Budget, Department of Aviation.

Lieutenant General Conant's General Officer staff tours have included Assistant Deputy Commandant for Aviation, Department of Aviation, HQMC; Assistant Deputy Commandant for Programs and Resources, HQMC; and Director, Capabilities Development Directorate, Marine Corps Combat Development Command and Director for Strategic Planning and Policy (J5), U.S. Pacific Command.

Lieutenant General Conant has participated in various operations overseas to include: noncombatant evacuation operations in Liberia (Operation Sharp Edge), contingency operations in Haiti (Operation Support Democracy) and peacekeeping operations in Somalia (Operation Restore Hope and UNOSOM) and combat operations in Operation Iraqi Freedom and Operation Enduring Freedom.

Lieutenant General Conant is a graduate of the USMC Amphibious Warfare School, USMC Command and Staff College, and Marine Corps War College.

United States Navy
Biography

CAPT ANTHONY FERRARI
COMMANDING OFFICER, NAVAL RESEARCH LABORATORY

Captain Anthony Ferrari is the 37th Commanding Officer of the Naval Research Laboratory, assuming command on August 30, 2012. As NRL's Commanding Officer, he directs the activities of more than 2,500 scientists, engineers, and support personnel in their mission to conduct leading-edge research and provide new technological capabilities to the Navy and Marine Corps. Prior to his assumption of command of NRL, he screened for major command and then served as the Deputy Director and Director of PMR-51, the Navy's Low Observable/Counter Low Observable Technology, Policy and Advanced project office at the Office of Naval Research from December 2008 through August 2012.

Captain Ferrari is a native of Queens, New York, and was raised in the New York/New Jersey area. Upon graduation from Delran High School in 1982, he joined the Navy and attended the Naval Academy Preparatory School in Newport, Rhode Island. In 1983, he received an appointment to the United States Naval Academy and graduated in 1987 with a B.S. degree in oceanography and physics.

Upon commissioning, he attended undergraduate flight training and was winged as a Naval Flight Officer in 1988. His next set of orders sent him to Whidbey Island, Washington, and Fleet Replacement Squadron 128 (VA-128), where he completed Bombardier/Navigator training in 1990 and joined the "Milestones" of VA-196. During his tour with VA-196, he accumulated over 1,000 hours in the A-6 Intruder and flew missions in support of Operation Desert Shield.

In 1993, he was selected for U.S. Naval Test Pilot School and graduated in the summer of 1994 with class 105. As a Flight Test Officer, he was assigned to VX-23 in Patuxent River, Maryland and worked on various test projects supporting Carrier Aviation and Weapons testing. When the A-6 Intruder was faithfully retired, he transitioned to the F-14 community and served on the staff of CVW-17 as the Air Wing Strike Operations Officer, completing two Mediterranean deployments from 1997 to 1999. Following a brief training syllabus at VF-101, he reported to the "World Famous Pukin' Dogs" (VF-143) and served as the Safety and Operations Officer.

Upon completion of his department head tour, he was then assigned as the Officer-in-Charge and Chief Operational Test Director of the VX-9 detachment, Point Mugu, California. This tour was followed by a second tour in Patuxent River, joining Naval Air Systems Command (NAVAIR) as the PMA-241 class desk officer, and principal deputy Program Manager. During this tour, he transitioned to the Aviation Engineering Duty Officer (AEDO) community, was selected as an Acquisition Professional (AP), and received an M.S. degree in systems engineering at Johns Hopkins University.

After leaving NAVAIR, he was assigned as the Naval Aviation Depot Requirements Officer, Fleet Readiness Division (OPNAV N43) in the Office of the Chief of Naval Operations, Washington, D.C. This was followed by a tour with the Naval Personnel Command as the Head Detailer for the Aerospace Engineering and Maintenance Communities.

Captain Ferrari has been awarded the Legion of Merit, Meritorious Service Medal (four awards), Navy and Marine Corps Commendation Medal (four awards) and the Navy and Marine Corps Achievement Medal (three awards), in addition to numerous campaign and unit awards.

United States Navy
Biography

REAR ADMIRAL JONATHAN W. WHITE
OCEANOGRAPHER AND NAVIGATOR OF THE NAVY
DIRECTOR, SPACE AND MARITIME DOMAIN AWARENESS
(OPNAV N2/N6E)

Rear Adm. White was born in Panama City, Fla. His father was a World War II Army Air Corps veteran and Purple Heart recipient; his mother supported the war through her work in Oak Ridge, Tenn. His passion for the Navy and oceanography began at age seven, thanks to the influence of a Navy diver who lived next door.

White earned a Bachelor of Science degree in Oceanographic Technology from the Florida Institute of Technology in 1981 and holds a master's degree in Meteorology and Oceanography from the U.S. Naval Postgraduate School.

After working at sea as a civilian oceanographer on board a seismic survey vessel, he was commissioned through Navy Officer Candidate School in 1983, and assigned as a surface warfare officer to USS *John L. Hall* (FFG 32) in Mayport, Fla.

White joined the oceanography community in 1987. Since then, he has had operational shore assignments at Jacksonville, Fla.; Guam; Monterey, Calif.; and, Stuttgart, Germany, where his joint duty included Special Operations Command Europe, and strike plans officer for U.S. European Command during Operation *Allied Force* in Kosovo and Serbia. White commanded Naval Training Meteorology and Oceanography Facility, Pensacola, Fla., and was the 50th superintendent of the United States Naval Observatory.

White's sea tours as a naval oceanographer include commander, Cruiser Destroyer Group 12 where he completed deployments on board USS *Saratoga* (CV 60), and USS *Wasp* (LHD 1).

White was selected as a flag officer and honorary chief petty officer in 2009 and served as Commander, Naval Meteorology and Oceanography Command. He was promoted to the rank of rear admiral (upper half) in August 2012 as he assumed his current duties, which include director, Task Force Climate Change, and Navy deputy to National Oceanic and Atmospheric Administration.

White wears numerous personal and unit awards, which are all a tribute to the Sailors, Marines, Airmen, Soldiers, Coast Guardsmen, and civilians he has served alongside throughout his career.

United States Navy
Biography

FRANK HERR, PH.D.
HEAD, OCEAN BATTLESPACE SENSING DEPARTMENT

Dr. Herr is the Head of the Office of Naval Research (ONR) Ocean Battlespace Sensing Department – one of six science and technology departments at ONR. He has been in this position since 2001. The Ocean Battlespace Department is responsible for the Navy's and Marine Corps's S&T in ocean and meteorological science, undersea warfare, mine warfare, space technology, and marine mammals. It is comprised of two divisions and 14 programs spanning sensing, systems, and geophysical processes and prediction. The department also has built and cares for 6 oceanographic research vessels. Dr. Herr's department is comprised of two senior executives, 39 professional scientists and engineers, 4 senior military officers, and 26 support staff. The department's budget is $310million/yr. From 1996 to 2001, Dr. Herr was Director, Sensing and Systems Division within ONR. His division's work spanned undersea warfare, mine warfare, and space technology. The division's budget was $140M/yr. Dr. Herr currently is the U.S. National Representative for the Maritime Systems Group of The Technical Cooperation Program (TTCP) coordinating technology among US, UK, CAN, AUS, and NZ. Dr. Herr was appointed to the Senior Executive Service in August, 1998.

Dr. Herr joined federal service in 1977 as a research chemist at the Naval Research Laboratory (NRL) conducted research until 1982 when he joined ONR. Dr. Herr became the Program Manager for Remote Sensing in 1988. From 1992 to 1994 Dr. Herr served on the staff of ADM Frank B. Kelso, Chief of Naval Operations, as Assistant for Science and Technology to the CNO Executive Panel, N00K. While at N00K.

Dr. Herr is a graduate of Hamilton College, Clinton, NY, with a bachelor's of arts degree. He also holds a PhD. from the University of Maryland, College Park, MD. Dr. Herr was a National Research Council post-doctoral research associate. Dr. Herr is the author of 22 scientific and technical publications.

Dr. Herr received the Department of the Navy Superior Civilian Service Award in 1994 and again in 2008. In 2005 he received a Presidential Rank Award for Meritorious Executives. In 1981, Dr. received the NRL Research Publication Award.

United States Navy Biography

REAR ADMIRAL WILLIAM F "BILL" MORAN
DIRECTOR, AIR WARFARE (OPNAV N98)

Rear Adm. Moran was born and raised in the state of New York. He is a graduate of Valley Central High School and holds a Bachelor of Science degree from the United States Naval Academy (1981) and a master's degree from the National War College (2006).

Moran is a P-3 pilot with operational tours spanning both coasts including Patrol Squadron 44, Brunswick, Maine; Patrol Squadron 45, Jacksonville, Fla.; command of Patrol Squadron 46, Whidbey Island, Wash.; and command of Patrol and Reconnaissance Wing 2, Hawaii. He has deployed to Sigonella, Sicily; Rota, Spain; Lajes Azores; Keflavik, Iceland; Misawa, Japan; Diego Garcia; Masirah, Oman; Bahrain; and, numerous detachments around the world. His other operational tours include flag lieutenant and Battle Group tactical watch officer for Commander, Carrier Group Six, Mayport, Fla., aboard USS *Forrestal* (CVA 59). Moran has served extensively as an instructor pilot in multiple operational tours, and two tours with Patrol Squadron 30, the Fleet Replacement Squadron.

Moran's shore assignments include: Patrol Wing 11, Jacksonville, Fla., as safety officer and assistant maintenance officer; the Bureau of Naval Personnel, Washington, D.C., as assistant Washington placement officer and assistant flag officer detailer; deputy executive assistant and executive assistant to Commander, U.S. Pacific Command, Camp Smith, Hawaii, from July 2000 to July 2003; deputy director, Navy staff from July 2006 until June 2007; and as executive assistant to the Chief of Naval Operations from June 2007 until August 2008. Upon selection to flag rank, Moran assumed duties as commander, Patrol and Reconnaissance Group in August 2008.

Moran served as deputy director, and currently serves as director, Air Warfare (OPNAV N98) on the staff of the Chief of Naval Operations (CNO). In this capacity, Moran is responsible for the development, programming, and budgeting of all Naval aviation warfighting requirements.

MICHAEL DEITCHMAN
DEPUTY CHIEF OF NAVAL RESEARCH, NAVAL AIR WARFARE AND WEAPONS SCIECE AND TECHNOLOGY DEPARTMENT

Michael Deitchman is currently the Deputy Chief of Naval Research, Naval Air Warfare and Weapons Science and Technology Department at the Office of Naval Research, responsible for the Navy's aircraft, air and surface weapons technology programs as well as science and technology program manager for the Sea Strike IPT Future Naval Capability, former chairman of the Department of Defense Reliance 21 Directed Energy Technology Focus Team and naval representative to the National Science and Technology Council Aeronautics Subcommittee. Deitchman was appointed to the Senior Executive Service on Sept. 9, 2001.

Deitchman's career with the Navy spans 41 years, starting as an engineering student trainee from the University of Maryland Co-operative Education program in February 1971.

Prior to his current assignment, he was the director of the Strike Technology Division and has now been at the Office of Naval Research for the last 11 years.

Deitchman served in numerous positions during his 30 years of civilian service with the Naval Air Systems Command. Prior to his promotion to the Senior Executive Service, he served as the deputy assistant commander for the Shore Station Management Group. He also served as the Naval Air Systems Command team leader for the Competitive Sourcing Enterprise Team from 1998 through 2001.

Deitchman was the associate for Integrated Systems Test and Evaluation and head of the Ship Suitability and Air Traffic Control & Landing Systems Division in the Test & Evaluation Engineering Department at the Naval Air Warfare Center Aircraft Division from 1996 to 1998.

He was detailed to the Navy's A-12 IPT in 1994, where along with a select group, conducted independent analysis of the A-12 trial merits of claim. He was awarded the Department of Navy's Meritorious Civilian Service Award in 1996 for his achievements in the analysis of the A-12 aircraft's total system performance, low observables, and flying qualities and performance.

Deitchman returned to the Naval Air Warfare Center Aircraft Division Patuxent River in 1989 where he held positions as chief engineer for the Simulation, Control and Technology Department at the Manned Flight Simulator and deputy program manager for F/A-18 Systems Engineering Management and Foreign Military Sales.

In 1981, Deitchman transferred to Naval Air Systems Command headquarters where he served as assistant program manager for Test and Evaluation of the F/A-18 and V-22 programs, chief engineer for the E-2C and C-2A aircraft programs from 1983 through 1986, and as head of the Carrier Aircraft Class Desks from 1986 through 1989. While serving as chief engineer for the E-2C and C-2A Class Desks, he managed complex integration and flight testing of the Group I and II radar and T56-A-427 engine upgrade of the E-2C aircraft as well as unique FMS requirements for Egypt and Singapore.

After graduating in 1973 with a bachelor's of science in aerospace engineering, Deitchman returned to the Naval Air

Test Center as a senior flight test engineer. He participated directly in all phases of the acquisition process ranging from the concept and demonstration phases of the YT-34C and YAV-8B aircraft programs, technical evaluation of the high angle of attack characteristics of the A-4/TA-4, EA-6B and A-7 aircraft, and full scale engineering development of the AV-8B and TAV-8A aircraft.

He holds a master's of science degree in systems management of research, development, test & evaluation from the University of Southern California, completed graduate study in aerospace engineering from Pennsylvania State University and is a graduate of the U.S. Naval Test Pilot School. He is a graduate of the Naval Air Systems Command Senior Executive Management Development Program and the Federal Executive Institute's Leadership for a Democratic Society Program.

Deitchman also is a member of the acquisition professional community with Level III DAWIA certification in program management, test and evaluation, science and technology management and system planning, research, development and engineering. His career record has been exemplary and he has received many awards for achievement and performance, including the Department of Navy's Meritorious (2008) and Superior Civilian Service Awards (2000). He received the Glenn L Martin Award for contributions to the field of aerospace engineering and was inducted into the University of Maryland, Department of Aerospace Engineering Academy of Distinguished Alumni in November 2007.

Deitchman holds memberships in the American Institute of Aeronautics and Astronautics, American Helicopter Society, Federal Executive Institute Alumni Association and Directed Energy Professional Society.

Office of Science and Technology Policy

JOHN HOLDREN, PH.D.
ASSISTANT TO THE PRESIDENT FOR SCIENCE AND TECHNOLOGY

Dr. John P. Holdren is Assistant to the President for Science and Technology, Director of the White House Office of Science and Technology Policy, and Co-Chair of the President's Council of Advisors on Science and Technology (PCAST). Prior to joining the Obama administration Dr. Holdren was Teresa and John Heinz Professor of Environmental Policy and Director of the Program on Science, Technology, and Public Policy at Harvard University's Kennedy School of Government, as well as professor in Harvard's Department of Earth and Planetary Sciences and Director of the independent, nonprofit Woods Hole Research Center. Previously he was on the faculty of the University of California, Berkeley, where he co-founded in 1973 and co-led until 1996 the interdisciplinary graduate-degree program in energy and resources. During the Clinton administration Dr. Holdren served as a member of PCAST through both terms and in that capacity chaired studies requested by President Clinton on preventing theft of nuclear materials, disposition of surplus weapon plutonium, the prospects of fusion energy, U.S. energy R&D strategy, and international cooperation on energy-technology innovation.

Dr. Holdren holds advanced degrees in aerospace engineering and theoretical plasma physics from MIT and Stanford. He is a member of the National Academy of Sciences, the National Academy of Engineering, and the American Academy of Arts and Sciences, as well as a foreign member of the Royal Society of London and former president of the American Association for the Advancement of Science. He served as a member of the MacArthur Foundation's Board of Trustees from 1991 to 2005, as Chair of the National Academy of Sciences Committee on International Security and Arms Control from 1994 to 2005, and as Co-Chair of the independent, bipartisan National Commission on Energy Policy from 2002 to 2009. His awards include a MacArthur Foundation Prize Fellowship, the John Heinz Prize in Public Policy, the Tyler Prize for Environmental Achievement, and the Volvo Environment Prize. In December 1995 he gave the acceptance lecture for the Nobel Peace Prize on behalf of the Pugwash Conferences on Science and World Affairs, an international organization of scientists and public figures in which he held leadership positions from 1982 to 1997.

United States Navy Biography

ROBIN P. WHITE
DIRECTOR, SURFACE SHIP DESIGN AND SYSTEMS ENGINEERING

Mrs. White currently serves as the Director for Surface Ship Design and Systems Engineering. In this position she is head ofthe Group within the Naval Sea System Command's Naval Systems Engineering Directorate (SEA 05) that provides the technical leadership to ensure current and future surface ships can safely and effectively perform mission requirements.

Mrs. White began her career as a Naval Architect for J. J. Henry, Inc. in Portsmouth, Virginia, providing ship structural and stability analysis for the local shipyards. Several years later she moved to John J. McMullen Associates, Inc. in Arlington, Virginia, where she performed naval architectural studies in support of the Naval Sea Systems Command.

Mrs. White joined the Naval Sea Systems Command as a naval architect in the Stability Division in 1989. She was promoted and then reassigned as the Branch Head for Amphibious and Auxiliary Ships in the Hydrodynamics Division. Mrs. White was selected as the Division Director of the Weight Control and Stability Division in 1998, where she was responsible for ensuring the safety and stability of US Navy ships and submarines. Mrs. White was a key technical advisor to COMN A VSEA on the alternatives for bringing home the *USS Cole* after the attack in 2000, recovering the *USS Lamoure County* after severe damage, and floating the *USS Cape St George* from a buckled dry-dock. She has lead efforts to assess novel hull forms for dynamic stability in support of the DDG 1000 program and to provide heavy weather operator guidance.

Mrs. White was appointed to the Senior Executive Service as the Director for Hydrodynamics in January 2003. In that position she was the responsible technical authority for ensuring US Navy surface ships and submarines have the speed, maneuverability, stability and seakeeping performance to meet their missions. She provided leadership in determining research and technology needs, performing design evaluation, approval and certification of hydrodynamic characteristics for acquisition programs and for ships and submarines in service. Ms White was detailed as the Deputy Commander, NAVSEA Corporate Operations, for a year in 2004/5. She was awarded the Navy Civilian Meritorious Service Award for these efforts in 2006. Mrs. White was appointed as the Director for Aircraft Carrier Design and Systems Engineering in 2007.

She stood up this new group aligned with PEO CV to provide the engineering and technical authority for aircraft carriers in service, under construction and the design of the new CVN 78 Class.

Mrs. White earned a bachelor's degree in naval architecture and marine engineering from the University of Michigan in 1982 and a master's degree in engineering administration, industrial and systems engineering from Virginia Polytechnic Institute and State University in 1997. She is a 1993 graduate of the Defense Systems Management College Program Management Course. Mrs. White is a member of the American Society of Naval Engineers, the Society of Naval Architects and Marine Engineers, and the Society of Women Engineers.

CAPT JAMES C. GOUDREAU
DIRECTOR, NAVY ENERGY COORDINATION OFFICE

Captain Goudreau is a native of Wilbraham, Massachusetts. He was commissioned as an Ensign in the Supply Corps through the Reserve Officers Training Corps at Norwich University in 1990, and graduated with a Bachelors of Science in Business Administration. He received a master's degree in Management from Troy University in 1995, and has completed the Marine Corps Logistics Education Program at Pennsylvania State University, Smeal College of Business and the Program in Advanced Logistics and Technology at University of North Carolina-Chapel Hill, Kenan-Flagler Business School.

His sea duty and overseas assignments include: Assistant Supply Officer onboard USS REASONER (FF 1063) and USS NIMITZ (CVN 68), Supply Officer, USS THE SULLIVANS (DDG 68) and Supply Officer, Joint Maritime Facility, St. Mawgan in Cornwall, United Kingdom. His most recent assignment was as the Assistant Chief of Staff for Logistics at Expeditionary Strike Group Seven and Amphibious Force Seventh Fleet based in Okinawa, Japan.

Captain Goudreau's ashore tours include: Naval Air Station Key West, FL; Naval Inventory Control Point, Philadelphia, PA as the P-3 Weapons Team Lead and Director of Aviation Industrial Support; Fleet and Industrial Supply Center San Diego as Site Director, Fleet Readiness Center Southwest; and Commander, Defense Logistics Agency North Island.

Captain Goudreau is currently assigned to OPNAV N45 as the Director of the Navy Energy Coordination Office.

Captain Goudreau is a member of the Defense Acquisition Corps (formerly the Acquisition Professional Community) and is qualified as a Naval Aviation Supply Officer and as a Surface Warfare Supply Corps Officer. He has been awarded the Meritorious Service Medal (three awards), Navy Commendation Medal (five awards), Navy Achievement Medal (two awards), and various campaign and unit awards.

United States Navy Biography

RICHARD CARLIN, PH.D.
HEAD, SEA WARFARE AND WEAPONS DEPARTMENT

Dr. Richard T. Carlin is Department Head of the Sea Warfare and Weapons Department at the Office of Naval Research (ONR). As Department Head, Dr. Carlin overseas a broad range of S&T programs for surface ships, submarines, and undersea weapons with an annual budget of approximately $500million per year.

Dr. Carlin entered the Senior Executive Service in January 2002 and has 14 years of Federal Service.

Prior to his current position as Department Head, Dr. Carlin was the Director for the Undersea Weapons and Naval Materials Division with responsibilities in undersea weapons and countermeasures, advanced energetics, structural materials, materials for power systems, acoustic transducers, maintenance reduction technologies, and blast mitigation materials. During his career at ONR, he also served as the Acting Chief Scientist in 2004 and as Director for the Mechanics and Energy Conversion Division from 2001 to 2005. Prior to his appointment as a Division Director, Dr. Carlin was the ONR Program Officer for Electrochemistry S&T and Undersea Weapons Propulsion with programs covering numerous electrochemical and thermal power technologies. Additionally, Dr. Carlin serves as the Navy S&T executive on numerous Navy, Department of Defense, and interagency energy advisory groups, including the Navy's Task Force Energy Executive Steering Committee, DDR&E's Energy Security Task Force, and the Hydrogen and Fuel Cell Interagency Task Force. He also serves as a U.S. panel member on the NATO RTO Applied Vehicle Technology Panel, and is a member of the Department of the Navy Awards Review Panel

Before joining ONR in August 1997, Dr. Carlin held several positions in academia, industry, and government. From 1995 to 1997, he was a Senior Scientist at Covalent Associates, Inc. performing contract research in areas of lithium batteries, supercapacitors, and ionic liquids catalysis. From 1992 to 1995, Dr. Carlin held the position of Electrochemistry Division Chief at the Frank J. Seiler Research Laboratory (FJSRL) located at the United States Air Force Academy in Colorado Springs, CO. At FJSRL, he led research on the use of ionic liquids as electrolytes for batteries, supercapacitors, and metal-alloy electrodepositions, and as solvents for gas absorption and catalysis. Dr. Carlin was an Assistant Professor of Chemistry at the University of Alabama in Tuscaloosa from 1989 to 1992 where he taught both undergraduate and graduate level course, and directed a research program in the study and application of ionic liquids as solvents and electrolytes. From 1982 to 1985, he was employed at Air Products and Chemicals as a Senior Research Chemist carrying out research on the use of ionic liquids as gas-separation membranes.

Dr. Carlin received his bachelor's of science in honors chemistry from the University of Alabama in 1977, and his Ph.D. in inorganic chemistry from Iowa State University in 1982. His thesis work at Iowa State focused on the synthesis, characterization, and structure of air-sensitive metal-metal bonded clusters of molybdenum and tungsten. Dr. Carlin received his training in electrochemistry as a postdoctoral fellow with Prof. Robert A. Osteryoung at the State University of New York at Buffalo.

Dr. Carlin has published over 100 technical papers and one book chapter, and he is a co-inventor on 7 United State patents. He has given numerous presentations including invited talks at international venues in Japan, France,

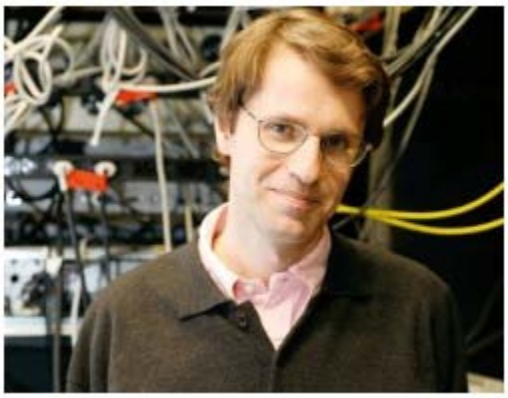
Turkey, Crete, and Scotland.

Dr. Carlin was awarded the Department of the Navy Meritorious Civilian Service Medal in August 2008. In Jan 2001, Dr. Carlin received Assistant Secretary of the Navy (Research Development, & Acquisition) Awards for the Rapid Transition of Foreveready Missile Battery for Strategic System Programs and for Lithium-Ion Polymer Battery for Advanced Seal Delivery System. He was awarded the Chief of Naval Research's Award of Merit for Group Achievement in Aug 2000 for Superior Group Effort While Serving on the ONR Diversity Committee. Additionally, his discovery of a novel battery technology was recognized with the U.S. Air Force Materiel Command S&T Achievement Award in 1993.

United States Navy

Biography

DR. BOTAND ROSKA
SENIOR GROUP LEADER, FRIEDRICH MIESCHER INSTITUTE, BASEL, SWITZERLAND



MAJOR GENERAL (BELGIAN AIR FORCE) ALBERT HUSNIAUX
NATO CHIEF SCIENTIST

Major General (Air Force) Albert Husniaux was born in Genk (Belgium) on 7 July 1957. He is a Master of Science in Engineering, specialized in Mechanics, Ballistics, Aeronautics and Astronautics.

Major General Husniaux is currently the NATO Chief Scientist. He chairs the Board of the Science and Technology Organisation, NATO's premier forum for Science and Technology co-operation among its Member Nations, comprising a network of more than 3000 Scientists and the Centre for Maritime Research and Experimentation. He is also the senior scientific advisor of NATO.

Major General Husniaux is an experienced executive manager of Science and Technology, having served his Nation from 1997 to 2009 and NATO since 2009. During his three-year tenure as the RTA Director, Major General Husniaux has been heavily involved in the NATO Agencies Reform, contributing significantly to the definition and the implementation of NATO's Science and Technology Reform. On 1 July 2012, he started his tenure as the first Chief Scientist of NATO, having been appointed by the North Atlantic Council (NAC) on 9 January 2012.

From September 2005 to July 2009, he was a member of the NATO Research & Technology Board (RTB) for Belgium; prior to that, from October 1997 to September 2005, he served as the Belgian National Coordinator to the Research & Technology Organization (RTO). He also represented Belgium in the R&T Board of the European Defence Agency (EDA). From December 2006 to July 2009, he managed the research activities of the Belgian Armed Forces in the fields of technology and security and defence, as the first Director General of the Royal High Institute for Defence, also a "think tank" within the Belgian Ministry of Defence.

Major General Husniaux is a Belgian flag officer with a career in a very wide array of domains: integrated logistic support (including acquisition) of aircraft, helicopters, rocket launchers (Ariane) and weaponry, teaching and education, strategic affairs, human resources and Research and Technology.

During his career, Major General Husniaux mostly served as an aircraft and weapon systems logistic support manager. He was actively involved at unit, staff and industry level in the logistic support and the acquisition of the training aircraft, the transport aircraft and the combat aircraft of the Belgian Air Force, both in national and multinational frameworks.

Teaching activities, as a technology teacher to the engineers of the Belgian Air Force and as an Assistant Professor in physics to the Royal Military School's students (Bachelor and Master degree), were part of his early career.

Activities in the Strategic Affairs domain, as the Branch Chief, Common Capabilities planning, at the Strategy Department of the Defence Staff and in the Human Resources domain, in charge of preparing promotion boards of senior Air Force Officers and as the project officer of the single career concept for all Belgian military, complete his portfolio.

Major General Husniaux was granted the honour to become a member of the Académie Royale de Belgique (Royal Academy for Sciences, Humanities and Arts), having been inducted to its Technology and Society Class on 12 May 2012.

Major General Husniaux is married to Ann Vermeire. They are blessed with two children, a daughter, Nele (°1986) and a son, Stijn (°1988). His hobbies are music and all-terrain cycling.

COL RUSSELL SMITH, USMC
DIRECTOR, MAGTF INTEGRATION DIVISION/STRATEGIC VISION GROUP

Colonel Smith was born on Okinawa, Japan and is from Rochester, NH. He graduated from the United States Naval Academy in 1987 and following TBS and IOC was assigned to 2d Light Armored Vehicle, Bn, 2d Marine Division, where he participated in Operation NIMROD DANCER Panama (reconnaissance for Operation JUST CAUSE) and Operation SHARP EDGE Liberia. He also served as an exchange officer with 45 Commando, British Royal Marines. In 1990 he was assigned to Recruiting Station San Diego until 1993 when he was reassigned as OIC Contact Team, 12th Marine Corps District. There he received the MCA Award for Outstanding Achievement in Recruiting Procurement. In 1994 he was a distinguished graduate from Armored Officer Advance and Cavalry Leaders Courses, Ft Knox. From 1995 through 1997 he served at 3rd Light Armored Reconnaissance Bn, 1st Marine Division, Twentynine Palms, CA as a Company Commander and Operations Officer, deploying to Combat Assault Bn, 3rd Marine Division, Okinawa Japan.

In 1997 Colonel Smith graduated from the Air War College Command and Staff Program and served as a Weapons Test Project Officer, Marine Corps Operational Test and Evaluation Activity, Quantico, VA. While leading the USMC's Y2K testing effort, he was recognized by the President's Commission on Y2K conversion for outstanding achievement. In 2000 Colonel Smith was reassigned as Bn Executive Officer, 2d Light Armored Reconnaissance Bn, 2d Marine Division until 2002 when he transferred to J-3 US Pacific Command as a Special Operations/MARFOR Planner, In 2005 he was assigned as Operations Officer 22d MEU, until wounded by an IED in Iraq and reassigned as II MEF G-3 Training Officer during his recovery. From 2007-2009 Colonel Smith commanded 2d LAR BN deploying again to Iraq. He transferred to the Royal College of Defence Studies, London UK in 2009, receiving the Aris Langford award and obtaining a Master Degree with Merit in International Relations from King's College London. In 2010 he was assigned to the Capabilities Development Directorate, Headquarters Marine Corps, Quantico, Virginia serving as Director Fires and Maneuver Integration Division, Director MAGTF Integration Division and Director Strategic Vision Group.

His personal awards include the Purple Heart, Defense Meritorious Service Medal, Meritorious Service Medal with two gold stars, Navy Marine Corps Commendation Medal with two gold stars, Joint Service Achievement Medal, Army Achievement Medal and Combat Action Ribbon with gold star. He is married and has two daughters.

United States Navy
Biography

GEORGE SOLHAN
DEPUTY CHIEF OF NAVAL RESEARCH, EXPEDITIONARY MANEUVER WARFARE & COMBATING TERRORISM SCIENCE & TECHNOLOGY DEPARTMENT

George Solhan currently serves as the Deputy Chief of Naval Research for Expeditionary Maneuver Warfare and Combating Terrorism Science and Technology, as Department Head (ONR 30), and as the Director of Marine Corps Science and Technology. He has been a member of the Senior Executive Service since June 2004 and has served in the U.S. Government for the past 18 years. Mr. Solhan served on active duty in the U.S. Marine Corps from 1968 to 1989. He is responsible for leading, managing, directing and integrating an extensive Science and Technology program which consists of basic research, applied research and advanced technology development, as well as efforts in a wide range of technical disciplines and warfare areas. These include Command and Control; Intelligence, Surveillance and Reconnaissance; Logistics; Firepower; Maneuver; Mine Countermeasures; Human Performance Training and Survivability; Combating Terrorism; and Littoral, Urban, and Irregular Warfare in support of operational requirements of the Navy and Marine Corps. Mr. Solhan's previous assignments include Deputy Director of Technology, Marine Corps System Command; Senior Research Scientist, Battelle Memorial Institute; and as a member of the Physics faculty at the Naval Academy Preparatory School. Solhan is a retired U.S. Marine Corps Officer with combat experience in the Republic of Vietnam and infantry and Special Operations experience through the Regimental level.

Mr. Solhan earned a bachelor's degree in mechanical engineering at the University of Maryland; a master's degree in national resource strategy at the Industrial College of the Armed forces; and is a graduate of the Senior Acquisition Course of the Defense Acquisition University. He is a National Security Decision-Making Fellow of the Maxwell School of Syracuse University, and a graduate of the Marine Corps Command and Staff College in Quantico, Va.

GENERAL JAMES F. AMOS
35TH COMMANDANT OF THE MARINE CORPS

On October 22, 2010 General James F. Amos assumed the duties of Commandant of the Marine Corps. A graduate of the University of Idaho, General Amos has held command at all levels from Lieutenant Colonel to Lieutenant General.

General Amos' command tours have included: Marine Wing Support Squadron 173 from 1985-1986; Marine Fighter Attack Squadron 312 – attached to Carrier Air Wing 8 onboard USS Theodore Roosevelt (CVN-71) – from 1991-1993; Marine Aircraft Group 31 from 1996-1998; 3rd Marine Aircraft Wing in combat during Operations IRAQI FREEDOM I and II from 2002-2004; II Marine Expeditionary Force from 2004-2006; and Commanding General, Marine Corps Combat Development Command and Deputy Commandant, Combat Development and Integration from 2006 to 2008. Additional operational tours have included Marine Fighter Attack Squadrons 212, 235, 232, and 122.

General Amos' staff assignments include tours with Marine Aircraft Groups 15 and 31, the III Marine Amphibious Force, Training Squadron Seven, The Basic School, and with the MAGTF Staff Training Program. Additionally, he was assigned to NATO as Deputy Commander, Naval Striking Forces, Southern Europe, Naples Italy where he commanded NATO's Kosovo Verification Center, and later served as Chief of Staff, U.S. Joint Task Force Noble Anvil during the air campaign over Serbia. Transferred in 2000 to the Pentagon, he was assigned as Assistant Deputy Commandant for Aviation. Reassigned in December 2001, General Amos served as the Assistant Deputy Commandant for Plans, Policies and Operations, Headquarters, Marine Corps. From 2008-2010 General Amos served as the 31st Assistant Commandant of the Marine Corps.

United States Navy
Biography

DAVID HAN, PH.D.
DEPUTY DIRECTOR OF RESEARCH

David Han is the Deputy Director of Research of the Office of Naval Research (ONR). The research directorate manages over $900 million dollars annually of basic and applied research portfolios in support of the US Navy and Marine Corps.

Dr. Han received a BS from Carnegie-Mellon University, and a MSE and PhD from Johns Hopkins University. He received a Professional Engineer's License (PE) in mechanical branch in the State of Hawaii in 1985. He served as a naval nuclear engineer at Pearl Harbor Naval shipyard from 1981 to 1987. From 1987 to 1995, he was with Naval Surface Warfare Center (NSWC) at White Oak as a research engineer in the underwater weapons program. In 1995 he became a program officer at ONR, directing research programs in Mine Countermeasure (MCM) technologies. In 1998, he joined Johns Hopkins University Applied Physics Laboratory as senior professional staff. He was later detailed to ONR as the systems integration manager and program manager of the MCM Future Naval Capability program office. In 2005, he joined the University of Maryland at College Park as a visiting associate professor and the Deputy Director of the Center for Energetic Concepts Development (CECD). He became the Distinguished IWS Chair Professor of the Systems Engineering Department of the US Naval Academy in Annapolis in 2007. He returned to ONR in 2009, serving as a program officer in the Ocean Engineering and Marine Systems team. He was appointed as the Deputy Director of Research of ONR in July of 2012.

Dr. Han has authored/coauthored over 50 papers including 4 book chapters. He has taught at Johns Hopkins University, University of Maryland Baltimore County, Morgan State University, and Korea University at both undergraduate and graduate levels. He has accumulated a wide variety of technical expertise including: nuclear engineering, thermal-fluid dynamics, structural mechanics, IR signature analyses, energetic materials, shock physics, impedance computed tomography, and closed loop control systems. His current technical interests include image/speech processing and recognition, machine learning, and human robot interaction.

United States Navy
Biography

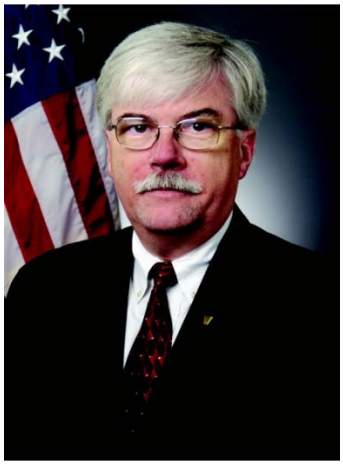
CMDR JOSEPH COHN
DEPUTY DIRECTOR OF RESEARCH, STEM

Commander Joseph Cohn is an Aerospace Experimental Psychologist (AEP) in the U.S. Navy's Medical Service Corps. He received his PhD in Neuroscience form Brandeis University. He is currently assigned to the Office of Naval Research's Human and Bioengineered Systems Division, as a Division and Program Officer in ONR's Warfighter Performance Division and as ONR's Deputy Director of Research, for Science, Technology, Engineering and Mathematics. His responsibilities include developing & implementing strategic planning for DoN's $70M+ human systems research investments and directly managing an additional $50M research portfolio covering basic and applied research to enhance warfighter performance. CDR Cohn's initial assignment was at NAVAIR Orlando, as the Lead, Training Effectiveness Evaluation for Virtual Environments. He worked with key Navy stakeholders to transition the Conning Officer Virtual Environment system to the Surface Warfare Officer, reducing qualification time by 50%. He was then assigned to the Naval Research Laboratory, where he established the Warfighter Human Systems Integration Laboratory, directing a staff of 12 in developing technologies that reduced training system costs by as much as 50%. Technologies that transitioned to the Warfighter include: Immersive team training systems, to the US Marine Corps; Automated team situation awareness tool, to the Army's Soldier Battle Labs; and a helicopter navigation training simulation to NAVAIR. Following this assignment, CDR Cohn served as Deputy PM for the Virtual Technologies and Environments (VIRTE) program, a $55M ONR Future Naval Capabilities Program, responsible for developing and transitioning training technologies to the Navy, Marine Corps and Army. Following that tour, CDR Cohn was branch head, Strategy & Concepts at OPNAV N1, responsible for developing the Chief of Naval Personnel's MPT&E Research Strategy. Most recently, he was a Program Manager at the Defense Advanced Research Projects Agency directing over $70M in basic & applied research projects that delivered cutting edge biomedical and information technology products, including: in-theater TBI treatment, advanced human-system interfaces, handheld device 'apps' to reduce PTSD, technologies to non-invasively image the brain and a dynamic and adaptable Digital Tutoring system that reduces by an order of magnitude the time required to train novice Navy recruits to perform as well as expert Information Technologists.

CDR Cohn has co-authored over 70 publications, chaired numerous panels and workshops and been an invited speaker to national and international conferences on human systems research. He has co-edited a 3-volume series of books focusing on all aspects of training system development, as well as a single volume book on enhancing performance in high risk environments. He is currently co-editing a third book focusing on combat stress resilience. His military decorations include the Defense Meritorious Service Medal, the Meritorious Service Medal (3 awards), the Navy Commendation Medal (3 awards), the Army Commendation Medal, and the Navy Achievement Medal (2 awards). In 2009 he was awarded the Association of Medical Service Corps Officers of the Navy's Best in Innovation Award for developing a portable Traumatic Brain Injury diagnosis tool; in 2007 he received that Association's Best in Innovation Award for developing neurocognitive technologies to ensure Warfighter resilience. In 2006 he received the Navy Modeling & Simulation Award, Training Category, from the ASN (RD&A) Chief Systems Engineer and was also selected to be that year's Potomac Institute for Policy Studies' Lewis and Clark Fellow, investigating legal and ethical issues with using performance enhancing technologies. As Assistant Specialty Leader for the Aerospace Experimental Psychologists, he was responsible for recruiting new officers, mentoring over a dozen junior officers and liaising with the Navy's Bureau of Personnel to meet the administrative needs of 30+ officers. He is a Fellow of the American Psychological Association and the Society of Military Psychologists, an Associate Fellow of the Aerospace Medical Association, and a member of the Augmented Cognition International advisory panel.

United States Navy
Biography

ADMIRAL WILSON GUERRA
SECRETARY OF SCIENCE, TECHNOLOGY AND INNOVATION OF THE BRAZILIAN NAVY



Dr. Walter F. Jones joined the Office of Naval Research (ONR) in September 2007, as Executive Director. Dr. Jones is the senior civilian manager at ONR and provides executive technical and scientific direction for ONR's investments in the innovative operational concepts that develop the science and technology (S&T) that ensure a technological advantage for our warfighters and allies. Accordingly, he works closely with ONR's Directorate leads in the identification, prioritization and support of specific areas of science and technology development.
Dr. Jones was appointed to the Senior Executive Service in January 2002 and has a total of 17 years Federal Service.

Dr. Jones served as the Director, Plans and Programs, Air Force Research Laboratory (AFRL), Wright-Patterson Air Force Base, Ohio, from August 2005 through January 2008. He was responsible for developing and managing the processes that defined AFRL's $3billion annual investment in technologies for future Air Force systems. These systems included space, weapons, aeronautics, command, control, communications, computers, intelligence, surveillance and reconnaissance.

Dr. Jones has held a wide variety of positions in government and academia. He has served as Director, Aerospace and Materials Sciences, for the Air Force Office of Scientific Research, Arlington, Va. In this capacity, he planned, coordinated, and executed a $55-million basic research program, including solid mechanics, fluid mechanics, materials science and propulsion. He has also served as a senior program analyst with the Office of the Deputy Director of Central Intelligence for Community Management. He has held several positions with the Air Force, including Deputy for Research Sciences with the Office of the Assistant Secretary of the Air Force (Acquisition), and Deputy for Science and Technology with the Office of the National Security Space Architect. In addition, Dr. Jones has held faculty positions at the University of Florida, University of Tennessee and Clemson University.

Dr. Jones received his B.S. in mechanical engineering and his M.S. and Ph.D. in engineering mechanics from Clemson University. He also has an M.S. in national resource strategy from the Industrial College of the Armed Forces at Ft. Lesley
J. McNair in Washington, D.C. In 2005 Dr. Jones received his Certificate in Legislative Studies at the Georgetown University, Government Affairs Institute, Washington, DC.

United States Navy Biography

CHARLES WESSNER, PH.D.
DIRECTOR, TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP, NATIONAL ACADEMY OF SCIENCES

Dr. Charles Wessner is a National Academy Scholar and Director of the Program on Technology, Innovation, and Entrepreneurship. He is recognized nationally and internationally for his expertise on innovation policy, including public-private partnerships, entrepreneurship, early-stage financing for new firms, and the special needs and benefits of high-technology industry. He testifies to the U.S. Congress and major national commissions, advises agencies of the U.S. government and international organizations, and lectures at major universities in the U. S. and abroad. Reflecting the strong global interest in innovation, he is frequently asked to address issues of shared policy interest with foreign governments, universities, and research institutes, often briefing government ministers and senior officials. He has a strong commitment to international cooperation, reflected in his work with a wide variety of countries around the world.

Dr. Wessner's work addresses the linkages between science-based economic growth, entrepreneurship, new technology development, university-industry clusters, regional development, small firm finance and public-private partnerships. His program at the National Academies also addresses policy issues associated with international technology cooperation, investment, and trade in high-technology industries.

Currently, he directs a series of studies centered on government measures to encourage entrepreneurship and support the development of new technologies and the cooperation between industry, universities, laboratories, and government to capitalize on a nation's investment in research. Foremost among these is a congressionally mandated study of the Small Business Innovation Research (SBIR) Program, reviewing the operation and achievements of this $2.3 billion award program for small companies and start-ups. He is also directing a major study on best practice in global innovation programs, entitled Comparative Innovation Policy: Best Practice for the 21st Century. A complementary analysis entitled Competing in the 21st Century: Best Practice in State & Regional Innovation Initiatives is now underway. The overarching goal of his work is to develop a better understanding of how we can bring new technologies forward to address global challenges in health, climate, energy, water, infrastructure, and security.

United States Navy
Biography

REAR ADMIRAL DONALD P. QUINN
COMMANDER, NAVAL EDUCATION AND TRAINING COMMAND

Rear Adm. Quinn is a native of East Rochester, N.Y. He graduated from the U.S. Naval Academy in 1979 and was designated a naval flight officer in 1980.

He completed operational assignments with the "Knightriders" of Attack Squadron (VA) 52, based in Oak Harbor, Wash.; the "Nighthawks" of VA 185, based in Atsugi, Japan; and the "Fighting Tigers" of VA 65, based in Virginia Beach, Va. He also served as deputy chief of Operations for Commander, Joint Task Force Southwest Asia, directing Operation *Southern Watch.*

His shore tours include instructor duty in the A-6 Intruder Fleet Replacement Squadron; a tour as aide to Commander, Medium Attack Tactical Electronic Warfare Wing Pacific, in-residence education at the Naval War College; joint duty in the Targeting Division of the Atlantic Intelligence Command, and a tour in Navy Personnel Command as director of the Aviation Officer Distribution Division. He holds a Master of Arts degree in National Security and Strategic Studies and a Master of Science degree in General Management.

In 1993, Quinn was chosen for transition into the EA-6B Prowler Community and commanded Electronic Attack Squadron (VAQ) 139, VAQ-129, and Carrier Air Wing 9.

In September 2005, Quinn was promoted to flag rank. He has commanded the Naval Air Training Command, Strike Force Training, Atlantic, and Navy Personnel Command. His awards include the Legion of Merit, Distinguished Flying Cross, and the Bronze Star.

Quinn became the 17th commander of the Naval Education and Training Command, Jan. 30, 2012.

REAR ADMIRAL BRUCE A. DOLL
COMMANDING OFFICER, NAVY MEDICINE RESEARCH AND DEVELOPMENT COMMAND
DEPUTY CHIEF, M2, NAVY MEDICINE RESEARCH AND DEVELOPMENT
DEPUTY CHIEF, NAVY RESERVE DENTAL CORPS

A graduate of Colgate University, Rear Adm. Doll began his Navy service when he was competitively selected for the 1925I program and was commissioned as an ensign in the U.S. Naval Reserve. Upon graduation from the State University of New York at Buffalo, School of Dentistry with a DDS in 1981, he was commissioned a lieutenant. He completed a general practice residency at the Buffalo General Hospital in 1982. His first assignment was the Naval Branch Dental Clinic, China Lake, Ca. as an assistant dental officer in 1982. A year later, Doll was assigned to 1st FSSG, Camp Pendleton as the officer-in-charge, 1st Battalion Service Support Group. He served as dental department head in the USS *Juneau* (LPD-10) from 1985 to 1987. During WESTPAC he earned the surface warfare officer qualification.

Rear Adm. Doll attended the Naval Dental School and received a certificate in periodontology in 1989. He was reassigned as Periodontics department head and training officer at the dental clinic, U. S. Naval Academy (USNA), Annapolis, Md. He also qualified as an offshore sailing captain for the USNA midshipmen sailing program.

In 1992, Rear Adm. Doll affiliated with the Naval Reserve, NR BUMED 106, Washington, DC, and served as training officer. While assigned to NR Norfolk 106 from 1994-96, he served as administrative officer. In his next assignment, he reported to the 14th Dental Company as the officer-in-charge, Detachment 2, 14th Dental Company. In 1998, he reported as the executive officer and later (acting) CO, 14th Dental Company, Fort Dix, NJ. The 4th Dental Battalion awarded him the Officer of the Year. He received a Ph.D. in Cell and Molecular Biology from Pennsylvania State University in 2000.

Commencing in October, 2001, Rear Adm. Doll assumed command of the 4th Dental Battalion. In October, 2003, he reported to REDCOM Mid-Atlantic as the REDCOM dental officer. In October 2005, he served as commanding officer, NR OHSU NNMC Bethesda. In September 2007, he deployed as the commanding officer, Navy Expeditionary Medical Unit. The unit participated in joint support of Landstuhl Regional Medical Center, Germany during *OEF/OIF*. Upon his return in October 2008, Rear Adm. Doll served as the Deputy Commander, Navy Medicine East and Deputy Chief, Navy Reserve Dental Corps. Rear Adm. Doll also served as Chief Operating Officer, Rutgers University/Cleveland Clinic research consortium focusing on regenerative medicine for the wounded warrior until August 2010. Prior to his current assignment, Rear Adm Doll was dual hatted as the Medical Advisor at NATO, ACT and the Command Surgeon at US Joint Forces Command in Norfolk, VA. In 2012 , he received an Executive MBA from the Naval Post Graduate School.

Rear Adm. Doll is a member of many professional societies and a Diplomate of the American Board of Periodontology. He is also a grantee of the National Institutes of Health. He has received fellowships from Omicron Kappa Upsilon, the International and American College of Dentists.

Rear Adm. Doll's decorations include the Defense Superior Service Medal, Legion of Merit, Meritorious Service Medal (2 awards), Navy and Marine Corps Commendation Medal (2 awards), Navy Achievement Medal, Meritorious Unit Commendation (3 awards), Fleet Marine Force Ribbon, Arctic Service Ribbon and other awards.

Rear Adm. Doll feels blessed to be married to the former Mary Ritz. They are the proud parents of Emily, Byron and Eric.

United States Navy
Biography

TERRY ALLARD, PH.D.
HEAD, WARFIGHTER PERFORMANCE DEPARTMENT

Dr. Terry Allard leads the planning and execution of Office of Naval Research (ONR) Warfighter Performance Science and Technology (S&T) overseeing a broad research portfolio including human systems integration, operational health and bioengineered systems. He creates and implements the vision, strategic direction, advocacy and oversight of over 350 research & technology development projects and over $180million (FY09) of 6.1, 6.2 and 6.3 budgets annually. He is also responsible for ensuring the safety and privacy of human subjects in Navy and Marine Corps research studies. Dr. Allard entered the Senior Executive Service in August 2000 at NASA Ames Research Center. He entered the FAA Executive Service in June 2006 and reentered the US Senior Executive Service as an ONR Department Head in May 2008. He began his government service 20 years ago as an ONR Science Officer.

Beginning in June 2006, Dr. Allard served as the Senior Executive for Human Factors Research and Engineering at the Federal Aviation Administration (FAA). He advised the FAA Administrator and other senior leaders on all matters related to aviation human factors while managing the Human Factors Research and Engineering program and, developing a human factors research and engineering vision for the Next Generation Air Transportation System (NextGen). In 2005, Dr. Allard created a broad Human-Systems Integration research program for the NASA Exploration Systems Mission Directorate in direct support of human space exploration. This HSI program covered training, design, medical requirements, behavioral health and safety risk management to prepare humans for extended space missions. In 2003 and 2004, Allard served as interim director of Advanced Space Technologies for the NASA Exploration Systems Mission Directorate. In this role, he created and managed a broad, multi-disciplinary research and technology program that included computer science, robotics and autonomy, materials and structures, power management and distribution, propulsion systems, and astronaut behavioral and physiological health.

In 1999, Dr. Allard began his Senior Executive Service tenure as Chief of the Human Factors Research & Technology Division at NASA Ames Research Center. In this role, he managed nearly 200 researchers, engineers and support staff addressing basic and applied research in aviation and human and robotic space exploration. From 1990 through 1999, Dr. Allard served as an ONR Program Officer managing an integrated science and technology portfolio that included virtual environment training technologies and human-systems engineering to reduce workload and manning requirements for Navy and Marine Corps operations.

Dr. Allard received a Ph.D. in psychology and brain science from Massachusetts Institute of Technology with a focus on human neuropsychology, speech sciences, phonology and psychophysics. He did postdoctoral work in animal behavior and the neurophysiology of learning, memory and self-organizing systems at the University of California, San Francisco. These experiences led to peer-reviewed publications in journals such as Brain, Journal of Neurophysiology and Nature in additional to multiple book chapters. He was a member of the inaugural Defense Leadership and Management Program (DLAMP) program completing graduate business coursework in a wide range of topics.

In 1995, Dr. Allard was the ONR representative to the successful CNO-sponsored Smart Ship project to reduce workload on surface ships. Dr. Allard's professional awards include Naval Civilian Meritorious Service Medal; NASA Outstanding Leadership Medal; NASA Group Achievement Award for Exploration Systems Research and

Technology; and Hammer Award for Reinventing Government from the Office of the Vice President as a member of the Smart Ship team among other awards. He was invited to join the Phi Beta Kappa Honor Society, the Sigma Xi Scientific Research Society and the Psi Chi National Honor Society in Psychology. He was awarded the David D. Henry Award as outstanding graduate of his Wayne State University graduating class. He has been a member of the Society for Neuroscience, the American Institute of Aeronautics and Astronautics, the American Association for the Advancement of Science. He is a current member of the American Society of Naval Engineers and the Human Factors and Ergonomics Society.

United States Navy
Biography

REAR ADMIRAL JAN TIGHE
DIRECTOR, DECISION SUPERIORITY, OPNAV N2N6F4

Rear Adm. Tighe was born in Bowling Green, Ky., and raised in Plantation, Fla. She was commissioned from the U.S. Naval Academy as an ensign (Special Duty Cryptology) in 1984 after earning a Bachelor of Science in Mathematics.

Tighe's cryptologic operational tours include duty with Naval Security Group Activities in Florida, Virginia, Atsugi/Misawa Japan and on the Pacific Fleet staff.

In 1989, Tighe studied Russian at the Defense Language Institute in Monterey, Calif. She was subsequently assigned to the Naval Security Group Detachment Atsugi, Japan, where she earned Naval Aviation Observer wings while deployed as an airborne special evaluator aboard Fleet Air Reconnaissance Squadron One (VQ 1) EP-3E aircraft in the Persian Gulf during Operation *Desert Shield/Storm*. During her tour, Tighe served as operations officer and assistant officer in charge, in addition to accumulating over 1,200 operational flight hours in the EP-3E aircraft.

Tighe attended the Naval Postgraduate School, Monterey, Calif., and in 2001 was awarded a doctorate in Electrical Engineering and a Master of Science in Applied Mathematics. She subsequently reported to the Naval Information Warfare Activity, where she served as chief staff officer and chief engineer. During her tour, she earned a Level III Defense Acquisition Workforce Improvement Act certification in Program Management.

Tighe reported as director, Sea Warrior at Naval Security Group (NSG) Headquarters in July 2004 where she oversaw the development of the Human Capital Strategy for NSG and the IW/Cryptologic community. She fleeted up to the chief of staff in August 2005 and prepared the staff for merger with Naval Network Warfare Command (NETWARCOM). She also served as deputy director of Information Operations within NETWARCOM.

From July 2006 through September 2009, Tighe commanded over 2,800 multi-service and multi-agency personnel at the National Security Agency/Central Security Service Hawaii in Kunia. Following command, she served for a year as the executive assistant to Director, National Security Agency/chief, Central Security Service and Commander, U.S. Cyber Command.

Tighe reported as the director, Decision Superiority on the OPNAV N2N6 staff in July 2011 after serving as the deputy director of Operations for U.S. Cyber Command since August 2010.

Tighe has been awarded the Defense Superior Service Medal, Legion of Merit, Defense Meritorious Service Medal, Meritorious Service Medal (second award), the Strike/Flight Air Medal, the Navy and Marine Corps Commendation Medal (fourth award), and the Navy and Marine Corps Achievement Medal.

United States Navy

Biography

BOBBY JUNKER, PH.D.
HEAD, COMMAND, CONTROL COMMUNICATIONS, COMPUTERS, INTELLIGENCE, SURVEILLANCE & RECONNAISSANCE

Dr. Bobby Junker is the Department Head for the Command, Control, Communications & Computers; Intelligence, Surveillance & Reconnaissance (C4ISR) Department at the Office of Naval Research (ONR). Three divisions report to him: Mathematics, Computers, and Information Research; Electronics, Sensors, and Networks Research; and C4ISR Applied Technology. His primary responsibilities are to identify and develop innovative science and technology to enhance the warfighter's ability to understand and control the battle-space and to ensure that the technology is transitioned to the Naval Forces. In this role, he has developed a planning process that has closely coupled the Science & Technology program with the Systems Command, Chief of Naval Operations staff, and Fleet to enhance technology transition. He has initiated major programs in Advanced Multi-function Radio Frequency (RF) Concepts to integrate communications, radar, and electronic warfare (EW) into common, multi-function, multi-beam apertures; develop technology to automate the integration of large volumes of disparate sensor and intelligence data; and initiate fully autonomous extremely large sensor networks with the ability to understand the battlespace they are sensing and to self-task (a prerequisite to effective counter-insurgency operations).

Dr. Junker entered the Senior Executive Service in April 1984 and has had a total of 30 years in the Civilian Service.

In December 1994, he was selected to the position as Department Head of the Information, Electronics, and Surveillance Department when ONR, the Office of Naval Technology, and Office of Advanced Technology reorganized. In 2005, the directorate's name was changed to C4ISR to better reflect the current work.

In August 1986 Dr. Junker was appointed Acting Head, Mathematical and Physical Sciences Directorate, and was subsequently selected as the Head in March 1987. In that position, he was instrumental in the initiation of innovative programs in neural networks, fast algorithms for solving propositional logic problems applicable to C2, new electronic materials and growth techniques, and application of nonlinear dynamics to numerous Navy problems.

In September 1983 Dr. Junker was appointed Acting Division Director for the Physics Division at ONR and was subsequently selected as Division Director in April 1984. He initiated significant programmatic interactions with the Innovative Science and Technology Directorate of the Ballistic Missile Defense Organization in the area of high power switches.

From January 1977 to September 1983, Dr. Junker was the Program Manager for the Atomic and Molecular Physics Program of the Physics Division at ONR. He initiated major programs in the laser cooling and trapping of atoms, stored ion spectroscopy, and atomic clocks; energy release in energetic materials; and interferometric astrometry.

Prior to joining the Federal Civilian Service, Dr. Junker was a faculty member in the Physics Department at the University of Georgia.

Dr. Junker received a bachelor's of science degree in 1965 from the University of Southwestern Louisiana, an master's of arts in August 1967, and doctorate in January 1969 from the University of Texas at Austin. His field of research is theoretical atomic and molecular physics.

Dr. Junker received the Presidential Distinguished Rank Award in 2003, Navy Superior Service Award in 1985, and the rank of Meritorious Executive in 1989 and 1999. He also received the EEO (Supervisory) Category OCNR Command and OCNR Headquarters awards in 1991 for his work in developing programs at Historically Black Colleges and Universities and his efforts in hiring and promoting qualified women and minorities. Dr. Junker is a life member of the American Physical Society, Sigma Xi, and SEA.

United States Navy Biography

THE HONORABLE SEAN J. STACKLEY
ASSISTANT SECRETARY OF THE NAVY
(RESEARCH, DEVELOPMENT AND ACQUISITION)

Sean J. Stackley assumed the duties of assistant secretary of the Navy (ASN) (Research, Development & Acquisition (RDA)) following his confirmation by the Senate in July 2008. As the Navy's acquisition executive, Mr. Stackley is responsible for the research, development and acquisition of Navy and Marine Corps platforms and warfare systems which includes oversight of more than 100,000 people and an annual budget in excess of $50 billion.

Prior to his appointment to ASN (RDA), Mr. Stackley served as a professional staff member of the Senate Armed Services Committee. During his tenure with the Committee, he was responsible for overseeing Navy and Marine Corps programs, U.S. Transportation Command matters and related policy for the Seapower Subcommittee. He also advised on Navy and Marine Corps operations & maintenance, science & technology and acquisition policy.

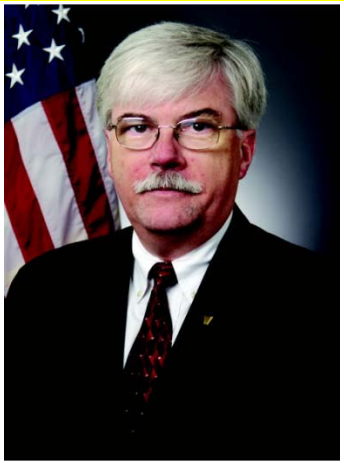
Mr. Stackley began his career as a Navy surface warfare officer, serving in engineering and combat systems assignments aboard USS *John Young* (DD 973). Upon completing his warfare qualifications, he was designated as an engineering duty officer and served in a series of industrial, fleet, program office and headquarters assignments in ship design and construction, maintenance, logistics and acquisition policy.

From 2001 to 2005, Mr. Stackley served as the Navy's LPD 17 program manager, with responsibility for all aspects of procurement for this major ship program. Having served earlier in his career as production officer for the USS *Arleigh Burke* (DDG 51) and project Naval architect overseeing structural design for the Canadian Patrol Frigate, HMCS Halifax (FFH 330), he had the unique experience of having performed a principal role in the design, construction, test and delivery of three first-of-class warships.

Mr. Stackley was commissioned and graduated with distinction from the United States Naval Academy in 1979, with a Bachelor of Science in Mechanical Engineering. He holds the degrees of Ocean Engineer and Master of Science, Mechanical Engineering from the Massachusetts Institute of Technology. Mr. Stackley earned certification as professional engineer, Commonwealth of Virginia, in 1994.

United States Navy
Biography

CHARLES BORSCH
DEPUTY, AQCUISITION LOGISTICS AND TOTAL OWNERSHIP COSTS (OPNAV N415)



Dr. Walter F. Jones joined the Office of Naval Research (ONR) in September 2007, as Executive Director. Dr. Jones is the senior civilian manager at ONR and provides executive technical and scientific direction for ONR's investments in the innovative operational concepts that develop the science and technology (S&T) that ensure a technological advantage for our warfighters and allies. Accordingly, he works closely with ONR's Directorate leads in the identification, prioritization and support of specific areas of science and technology development.
Dr. Jones was appointed to the Senior Executive Service in January 2002 and has a total of 17 years Federal Service.

Dr. Jones served as the Director, Plans and Programs, Air Force Research Laboratory (AFRL), Wright-Patterson Air Force Base, Ohio, from August 2005 through January 2008. He was responsible for developing and managing the processes that defined AFRL's $3billion annual investment in technologies for future Air Force systems. These systems included space, weapons, aeronautics, command, control, communications, computers, intelligence, surveillance and reconnaissance.

Dr. Jones has held a wide variety of positions in government and academia. He has served as Director, Aerospace and Materials Sciences, for the Air Force Office of Scientific Research, Arlington, Va. In this capacity, he planned, coordinated, and executed a $55-million basic research program, including solid mechanics, fluid mechanics, materials science and propulsion. He has also served as a senior program analyst with the Office of the Deputy Director of Central Intelligence for Community Management. He has held several positions with the Air Force, including Deputy for Research Sciences with the Office of the Assistant Secretary of the Air Force (Acquisition), and Deputy for Science and Technology with the Office of the National Security Space Architect. In addition, Dr. Jones has held faculty positions at the University of Florida, University of Tennessee and Clemson University.

Dr. Jones received his B.S. in mechanical engineering and his M.S. and Ph.D. in engineering mechanics from Clemson University. He also has an M.S. in national resource strategy from the Industrial College of the Armed Forces at Ft. Lesley
J. McNair in Washington, D.C. In 2005 Dr. Jones received his Certificate in Legislative Studies at the Georgetown University, Government Affairs Institute, Washington, DC.

United States Navy
Biography

BRENDA PICKETT
DIRECTOR, OFFICE OF NAVAL RESEARCH, OFFICE OF SMALL BUSINESS

Brenda Pickett is currently the Associate Director for Small Business at the Office of Naval Research (ONR), located in Arlington, VA and is responsible for managing ONR's Small and Disadvantaged Business Utilization Program to facilitate maximum participation in ONR's acquisition programs by Small Business concerns; Small-Disadvantaged Business firms; Women-Owned Small Business firms; Small Business concerns located in Historically-Underutilized Business Zones (HuBZone Concerns); Service-Disabled Veteran-Owned Small Business Firms; Veteran-Owned Small Business Firms; and other concerns subject to socioeconomic considerations.

In addition, she has worked within ONR in various contracting positions inclusive of Contracting Officer, Procurement Analyst and Contract Specialist. She is also a Defense Acquisition Workforce Improvement (DAWIA) Level III certified member within the Acquisition Professional Community.

United States Navy

Biography

ERIN LAMBERT
DIRECTOR, OFFICE OF NAVAL RESEARCH, ACQUISITION COMPUTING ENVIRONMENT

Ms. Erin M. Lambert currently serves as the Director of the Office of Naval Research (ONR) Acquisition eBusiness Division (BD21) and provides management and technical support for the command's procurement and assistance systems. Ms. Lambert joined ONR in 2006 as an Acquisition Automation Analyst.

Before coming to ONR, Ms. Lambert worked as a Procurement Analyst at the Naval Facilities Engineering Command (NAVFAC) for three years, where she managed procurement programs such as the Standard Procurement System (SPS), the Federal Procurement Data System (FPDS), Wide Area Workflow (WAWF), and the Government Purchase Card.

Prior to her government service, Ms. Lambert began her career in 1999 as an information technology consultant in the Management Consulting Services branch of PricewaterhouseCoopers (which became IBM Consulting in 2002) supporting NAVFAC headquarters.

Ms. Lambert graduated from the University of Virginia (UVA) in 1999 with a bachelor's degree in Systems Engineering and received her masters degree in Engineering Management from the George Washington University (GWU) May 2010.

COMMAND MASTER CHIEF CHARLES ZIERVOGEL
OFFICE OF NAVAL RESEARCH, TECHSOLUTIONS

Master Chief Ziervogel enlisted in the Navy in August of 1989. Following Basic Training in Orlando, Florida he entered the Navy Nuclear Power Training Pipeline. In September of 1991, he completed training at Naval Nuclear Power Training Unit, Charleston, South Carolina where he earned the navy classification as Nuclear Power Plant Operator.

From October 1991 to December 1996 he served as a member of Reactor Control Division onboard USS Nebraska (SSBN 739 Gold) through New Construction and Commissioning, completing 5 strategic deterrent patrols. From January 1997 through April 2000 he served as an instructor at the Naval Nuclear Power Training Command and was onboard to assist in moving the Command from Orlando, Florida to Charleston, South Carolina. While teaching at Electronics Technician "A" School Master Chief Ziervogel earned his Master Training Specialist certificate in February of 1998 and also served as the staff and student Command Fitness Leader.

From April 2000 until April 2001, he was chosen as a member of the initial manning crew onboard USS Virginia (SSN 774) and was selected for Chief Petty Officer. From April 2001 to April 2003, he served on board USS Augusta (SSN 710) where he was assigned as the Reactor Control Division Leading Chief Petty Officer and completed a Northern Atlantic Deployment and various Eastern and Southern Atlantic missions. In April of 2003, he was selected for advancement to Senior Chief Petty Officer and assigned as the initial Reactor Control Division Leading Chief Petty Officer on board USS Hawaii (SSN 776) during her New Construction and Commissioning period. During the time he was assigned on board he also served as the Engineering Department Master Chief from September 2008 and completed one Eastern Atlantic, and one Western Pacific Deployment in support of the Global War on Terrorism, followed by a Post Shakedown Availability yard period and a change of homeport from Groton, Connecticut to Pearl Harbor, Hawaii in June of 2009. In March 2008, he was selected for advancement to Master Chief Petty Officer, the senior enlisted pay grade in the United States Navy.

Master Chief Ziervogel reported in April of 2010 as the Senior Enlisted Advisor to the Chief of Naval Research where he currently serves under the helm of RADM Matthew Klunder. In addition to being the Senior Enlisted Leader for this Echelon I command, his duties include managing the ten million dollar (annually) TechSolutions program.

Master Chief is entitled to wear the Navy and Marine Corps Commendation Medal (4 awards), Navy and Marine Corps Achievement Medal (4 awards), and various unit and campaign awards.

United States Navy Biography

STEPHANIE EVERETT
PROGRAM MANAGER, OFFICE OF NAVAL RESEARCH, TECHSOLUTIONS

Ms. Everett is the Program Manager for the TechSolutions office at the Office of Naval Research (ONR). She is on detail to ONR from the Naval Research Laboratory (NRL), where she was a research scientist in the Information Technology Division for over 20 years.

TechSolutions is an advanced development (6.3) rapid-response (under 18 months) technology insertion program that develops science and technology solutions in response to requests from the Fleet/Force -- typically E-4 through O-4 Sailors and Marines, and the ONR Science Advisors. The program provides funding to Navy labs and warfare centers to support development and demonstration of solution prototypes, which are then transitioned to programs of record to benefit the Navy and the Marine Corps.

Stephanie's technical background is in Linguistics and Human Computer Interaction. Early in her career she helped develop the voice analysis and synthesis algorithms used in the STU-III secure telephone. In 1991 she joined the Navy Center for Applied Research in Artificial Intelligence at NRL, where she developed speech- and language-enabled interfaces to a variety of different systems, and worked with automatic language translation and audio word-spotting technologies. Stephanie holds a BA degree in Linguistics from Cornell University, and an MS in Information Systems from the University of Maryland.

United States Navy
Biography

TRACY FROST
PROGRAM MANAGER, OFFICE OF NAVAL RESERCH, SMALL BUSINESS INNOVATION RESEARCH PROGRAM

Dr. Walter F. Jones joined the Office of Naval Research (ONR) in September 2007, as Executive Director. Dr. Jones is the senior civilian manager at ONR and provides executive technical and scientific direction for ONR's investments in the innovative operational concepts that develop the science and technology (S&T) that ensure a technological advantage for our warfighters and allies. Accordingly, he works closely with ONR's Directorate leads in the identification, prioritization and support of specific areas of science and technology development.
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Dr. Jones received his B.S. in mechanical engineering and his M.S. and Ph.D. in engineering mechanics from Clemson University. He also has an M.S. in national resource strategy from the Industrial College of the Armed Forces at Ft. Lesley
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